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Selected Hydrologic Data, Through Water Year 1998, Black Hills Hydrology Study, South Dakota

By Daniel G. Driscoll, Wendell L. Bradford, and Michael J. Moran

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U.S. Department of the Interior

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	Ву	To obtain
acre	4,047	square meter
acre	0.4047	hectare
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second
foot (ft)	0.3048	meter
gallon per minute (gal/min)	0.06308	liter per second
inch (in.)	25.4	millimeter
mile (mi)	1.609	kilometer
square mile (mi ²)	259.0	hectare
square mile (mi ²)	2.590	square kilometer
ton	907.2	kilogram

Temperature can be converted to degrees Fahrenheit (°F) or degrees Celsius (°C) by the following equations:

$$^{\circ}F = 9/5 \ (^{\circ}C) + 32$$

 $^{\circ}C = 5/9 \ (^{\circ}F-32)$

Sea level: In this report, "sea level" refers to the North American Vertical Datum of 1988 (NAVD88)--a geodetic datum derived from a general adjustment of various datums, including the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

Water year: Water year is the 12-month period, October 1 through September 30, and is designated by the calendar year in which it ends. Thus, the water year ending September 30, 1998, is called the "1998 water year."

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ABSTRACT

This report presents water-level and water-quality data that have been collected or compiled, through water year 1998, for the Black Hills Hydrology Study. This study is a long-term cooperative effort between the U.S. Geological Survey, the South Dakota Department of Environment and Natural Resources, and the West Dakota Water Development District (which represents various local and county cooperators). This report is the third in a series of project data reports produced for the study.

Daily water-level data are presented for 71 observation wells and 2 cave sites in the Black Hills area of western South Dakota. The wells include a network of observation wells that are maintained in cooperation with the South Dakota Department of Environment and Natural Resources and are completed in various bedrock formations that are utilized as aquifers in the Black Hills area of western South Dakota. Both cave sites are located within outcrops of the Madison Limestone. Data presented include site descriptions, hydrographs, and tables of daily water levels.

Annual measurements of water levels collected during water years 1995-98 from a network of 18 additional, miscellaneous wells are presented. These wells are part of a statewide network of wells completed in bedrock aquifers that was operated from 1959 through 1989 in cooperation with the South Dakota Department of Environment and Natural Resources. Site descrip-

tions and hydrographs for the entire period of record for each site also are presented.

Water-quality data are presented for 9 surface-water sites, 19 ground-water sites, and 30 sites that have been classified as areas of surface-and ground-water interaction in the Black Hills area. The surface- and ground-water interaction sites are further divided into three categories that include 11 loss zone sites, 8 headwater spring sites, and 11 downgradient spring sites.

INTRODUCTION

The Black Hills Hydrology Study is a long-term investigation that was initiated in 1990 as a cooperative effort between the U.S. Geological Survey (USGS), the South Dakota Department of Environment and Natural Resources (DENR), and the West Dakota Water Development District. West Dakota represents various local and county cooperators. The study was planned as a 10-year investigation to assess the quantity, quality, and distribution of surface and ground water in the Black Hills area of western South Dakota (Driscoll, 1992).

An extensive data-collection network has been established for the Black Hills Hydrology Study. Streamflow and precipitation data, which are collected at numerous sites throughout the study area, have been published annually in Water Resources Data for South Dakota (U.S. Geological Survey, 1991-99). Water-level, water-quality, and spring data that were collected or compiled for the Black Hills Hydrology Study, through water year 1992 (ending September 30, 1992), were published in the first of a series of project data reports (Driscoll and Bradford, 1994). Selected hydrologic data that were collected or compiled for the Black

Hills Hydrology Study through water year 1994 were published in the second project data report (Driscoll and others, 1996). This report is the third in the series and presents selected hydrologic data that have been collected or compiled during water years 1995-98. In some cases, data collected prior to water year 1995 are included for purposes of comparison or supplementation.

Description of Study Area

The study area includes the topographically defined Black Hills and adjacent areas as shown in figure 1. The boundaries of the study area have been modified slightly since publication of the original plan of study (Driscoll, 1992).

The Black Hills are a dome-shaped uplift of Laramide age, about 125 mi long and 60 mi wide (Feldman and Heimlich, 1980). Elevations range from about 7,200 ft at the higher peaks to about 3,000 ft in the surrounding plains, resulting in an orographically induced microclimate characterized by generally greater precipitation and lower temperatures at the higher elevations. The overall climate of the area is continental, generally with low precipitation amounts, hot summers, cold winters, and extreme variations in both precipitation and temperatures (Johnson, 1933). Average annual precipitation for the Black Hills area is 21.90 in., and ranges from 15.83 in. at Hot Springs to 29.01 in. at Lead. The average annual temperature is 43.9°F, and ranges from 48.7°F at Hot Springs to approximately 37°F near Deerfield Reservoir (U.S. Department of Commerce, 1998).

The oldest geologic units in the Black Hills are the Precambrian metamorphic and igneous rocks (fig. 2), which are exposed in the central core of the Black Hills, extending from near Lead to south of Custer. Surrounding the Precambrian core is a layered series of sedimentary rocks including limestones, sandstones, and shales that are exposed in roughly concentric rings around the uplifted flanks of the Black Hills. The generalized outcrops of the Madison (Pahasapa) Limestone and Minnelusa Formation are shown as examples in figure 3. The generalized outer extent of the Inyan Kara Group, which approximates the outer extent of the Black Hills uplift, also is shown in figure 3. The bedrock sedimentary formations typically dip away from the uplifted Black Hills at angles that approach or exceed 10 degrees near the outcrops, and decrease with distance from the uplift (fig. 4).

Many of the sedimentary formations commonly are used as aquifers, both within and beyond the study area. Recharge to these aquifers is from precipitation upon the outcrops and from stream infiltration along the flanks of the Black Hills (Peter, 1985; Kyllonen and Peter, 1987; Greene, 1993). Within the Paleozoic section, the Deadwood Formation, Madison Limestone, Minnelusa Formation, and Minnekahta Limestone commonly are used as aquifers. These aquifers are collectively confined by the underlying Precambrian rocks and the overlying Spearfish Formation. Individually the aguifers are separated by minor confining layers, or by relatively impermeable layers within the individual formations. Leakance between the aquifers is extremely variable (Peter, 1985; Greene, 1993). Within the Mesozoic section, the Inyan Kara Group, which includes the Lakota and Fall River Formations, is used extensively as an aquifer, with various other units used locally to lesser degrees. A series of Cretaceous shales acts as the upper confining layer to the Mesozoic aquifer units.

Artesian conditions generally exist within the aforementioned aquifers where an upper confining layer is present. This means that water in a well will rise above the top of the aquifer in which it is completed. If the water level, or potentiometric surface, is above the land surface, a flowing well will result. Similarly, artesian springs that originate from confined aquifers are common around the periphery of the Black Hills. The hydrogeologic setting of the Black Hills area is schematically illustrated in figure 5.

Streamflow within the study area is affected by both topography and geology. The base flow of most Black Hills streams originates in the higher elevations, where increased precipitation and reduced evapotranspiration result in excess water being available for springflow and streamflow. Numerous streams have significant headwater springs originating from the Paleozoic formations on the western side of the study area (figs. 3 and 4). Most Black Hills streams generally lose all or part of their flow as they cross the outcrop of the Madison Limestone (Rahn and Gries, 1973; Hortness and Driscoll, 1998). Karst features of the Madison Limestone, including sinkholes, collapse features, solution cavities, and caves are responsible for the Madison's capacity to accept recharge from streamflow. Large springs occur in many locations downgradient from the streamflow-loss zones, most commonly within or near the outcrop of the Spearfish Formation, providing an important source of base flow in many streams beyond the periphery of the Hills (Rahn and Gries, 1973).

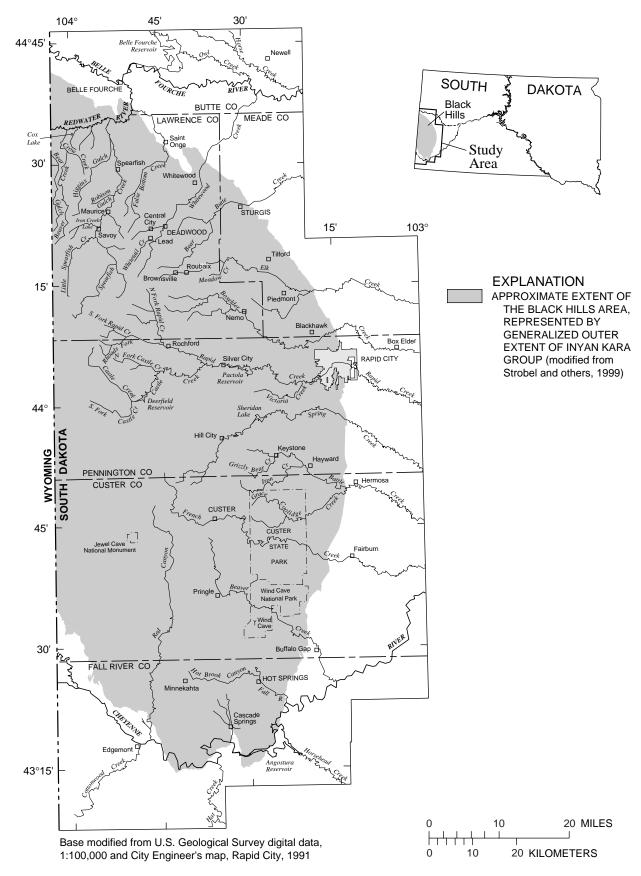


Figure 1. Area of investigation for the Black Hills Hydrology Study.

ERATHEM	SYSTEM	ABBREVIATION FOR STRATIGRAPHIC INTERVAL	GEOLOGIC UNIT	THICKNESS IN FEET	DESCRIPTION
೦	QUATERNARY & TERTIARY (?)	QTu	UNDIFFERENTIATED SANDS AND GRAVELS	0-50	Sand, gravel, and boulders
l Ō		Tw	WHITE RIVER GROUP	0-300	Light colored clays with sandstone channel fillings and local limestone lenses.
CENOZOIC	TERTIARY ¹ /		PIERRE SHALE		Principal horizon of limestone lenses giving teepee buttes. Dark-gray shale containing scattered concretions.
			Sharon Springs Mem.		Widely scattered limestone masses, giving small teepee buttes. Black fissile shale with concretions.
			NIOBRARA FORMATION	² 80-300	Impure chalk and calcareous shale.
		Kps	Turner Sandy Member CARLILE SHALE Wall Creek Sands	² 350-750	Light-gray shale with numerous large concretions and sandy layers. Dark-gray shale
	CRETACEOUS		Wall Creek Sands	(05.00)	
1 8	CRETACEOUS		GREENHORN FORMATION	(25-30)	Impure slabby limestone. Weathers buff.
ŭ				(200-350)	Dark-gray calcareous shale, with thin Orman Lake limestone at base.
MESOZOIC			BELLE FOURCHE SHALE	150-850	Gray shale with scattered limestone concretions.
2			Ø MOMBY OUN E		Clay spur bentonite at base.
			MOWRY SHALE MUDDY DYNNESON	125-230	Light-gray siliceous shale. Fish scales and thin layers of bentonite.
			MOWRY SHALE MUDDY DYNNESON SANDSTONE NEWCASTLE SKULL CREEK SHALE	20-150	Brown to light yellow and white sandstone.
			SKULL CREEK SHALE	150-270	Dark gray to black siliceous shale.
				10-200	Massive to slabby sandstone.
			FALL RIVER FORMATION Fuson Shale	10-190	Coarse gray to buff cross-bedded conglomeratic sandstone, interbedded with buff, red,
		Kik	PAN AN A	0-25 25-485	and gray clay, especially toward top. Local fine-grained limestone.
			MORRISON FORMATION	0-220	Green to maroon shale. Thin sandstone.
			LINIK DADA CC	0-225	Massive fine-grained sandstone.
	JURASSIC	Ju	Redwater Member Lak Member Lak Member Hulett Member FORMATION Stockade Beaver	250-450	Greenish-gray shale, thin limestone lenses. Glauconltic sandstone; red sandstone near middle.
			Canyon Spr Member	0-45	Red siltstone, gypsum, and limestone.
	TDIAGOIG		GYPSUM SPRING FORMATION	0-40	Red sandy shale, soft red sandstone and siltstone with gypsum and thin limestone layers.
	TRIASSIC	TRPs	SPEARFISH FORMATION	250-800	Gypsum locally near the base.
		Pmk	Goose Egg Equivalent MINNEKAHTA LIMESTONE	² 25-65	Thin to medium-bedded finely-crystaline, purplish gray laminated limestone.
	DEDMIAN	Po	OPECHE SHALE	² 25-150	Red shale and sandstone.
	PERMIAN				Yellow to red cross-bedded sandstone, limestone, and anhydrite locally at top.
l o		₽₽m	MINNELUSA FORMATION	² 375-1,175	Interbedded sandstone, limestone, dolomite, shale, and anhydrite.
IOZ	PENNSYLVANIAN				Red shale with interbedded limestone and sandstone at base.
PALEOZOIC	MISSISSIPPIAN	IISSISSIPPIAN MADISON (PAHASAPA) LIMESTONE		² 250-1,000	Massive light-colored limestone. Dolomite in part. Cavernous in upper part.
	DEVONIAN		ENGLEWOOD FORMATION	30-60	Pink to buff limestone. Shale locally at base.
	ORDOVICIAN	Ou	WHITEWOOD (RED RIVER) FORMATION	² 0-235	Buff dolomite and limestone.
		_	WINNIPEG FORMATION	² 0-150	Green shale with siltstone. Massive to thin-bedded buff to purple sandstone. Greenish glauconitic shale flaggy
	CAMBRIAN	O€d	DEADWOOD FORMATION	² 0-500	dolomite and flatpebble limestone conglomerate. Sandstone, with conglomerate locally at the base.
PREC	AMBRIAN	p€u	UNDIFFERENTIATED METAMORPHIC AND IGNEOUS ROCKS		Schist, slate, quartzite, and arkosic grit. Intruded by diorite, metamorphosed to amphibolite, and by granite and pegmatite.

¹ Also may include intrusive igneous rocks

Modified from information furnished by the Department of Geology and Geological Engineering, South Dakota School of Mines and Technology (written commun., January 1994)

Figure 2. Stratigraphic section for the Black Hills.

² Modified based on drill-hole data

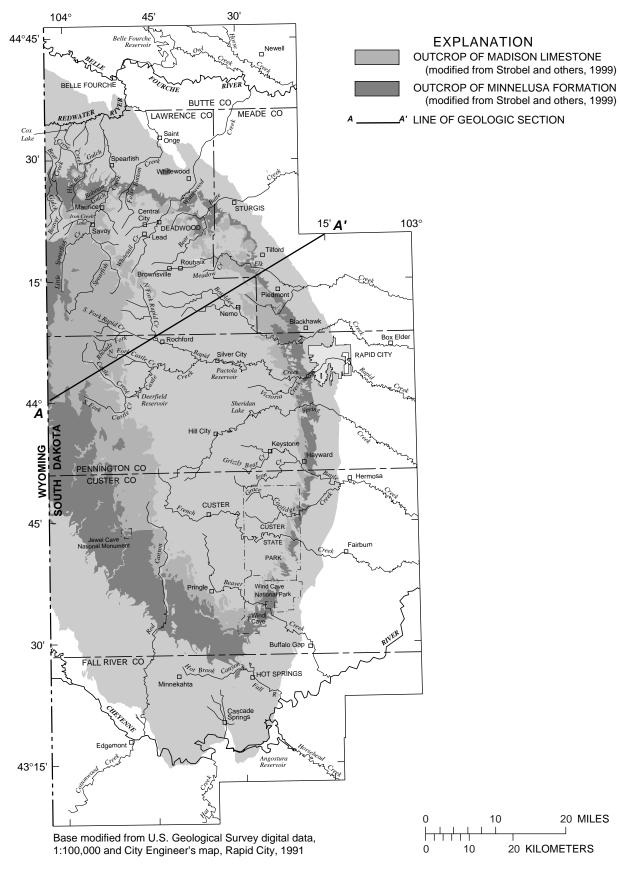


Figure 3. Outcrops of Madison Limestone and Minnelusa Formation within the study area for Black Hills Hydrology Study.

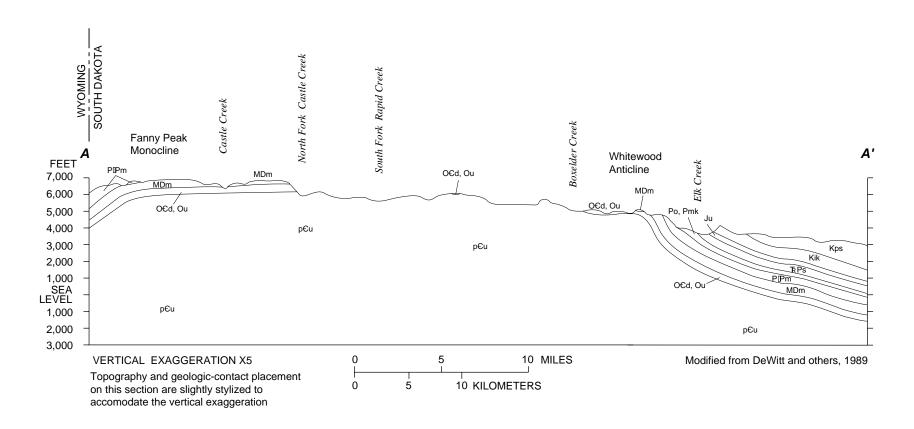


Figure 4. Geologic section A-A'. (Location of section is shown in figure 3. Abbreviations for stratigraphic intervals are explained in figure 2).

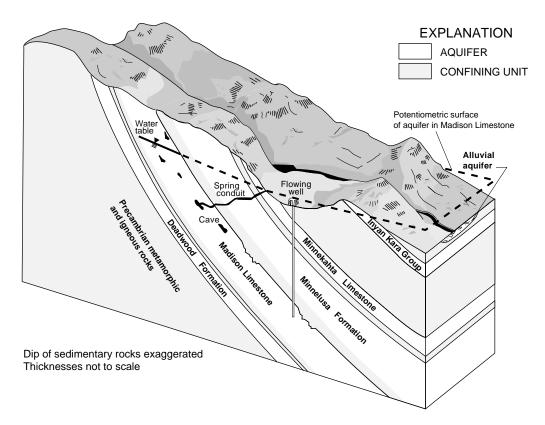


Figure 5. Schematic showing simplified hydrogeologic setting of the Black Hills area.

Water quality within the study area also is affected by geologic conditions. Water within streams draining the Paleozoic formations on the western side of the study area typically is hard and of a calcium bicarbonate type. Streams draining the Precambrian core, by comparison, typically are softer, with significantly lower concentrations of dissolved solids and lower associated values of specific conductance (U.S. Geological Survey, 1975; Meyer, 1984; Driscoll and Bradford, 1994).

The quality of ground water within the study area is extremely variable. Concentrations of dissolved solids in the sedimentary aquifers generally are relatively low, in and near the recharge areas, but increase with distance from the recharge areas. Water within the Madison, Minnelusa, and Minnekahta aquifers generally is of a calcium bicarbonate type near the recharge areas, which is typical of carbonate aquifers (Driscoll and Bradford, 1994; Whalen, 1994). Within the Madison and Minnelusa aquifers, concentrations of sulfate and other ions generally increase in the downgradient direction. Within downgradient Minnelusa

wells, sulfate generally is the dominant anion (Whalen, 1994). Many of the large springs around the periphery of the Hills, which originate from the Madison and/or Minnelusa, reflect this change in water quality.

Methods of Station Identification

Various methods of station identification are used within this report to identify sites for which data are presented. The most commonly used method for ground-water sites is the local number, which is based on the Federal land-survey system for western South Dakota (fig. 6). The local number consists of the township number followed by "N" or "S" (north or south of the Black Hills Baseline), the range number followed by "E" or "W" (east or west of the Black Hills Meridian), and the section number, followed by a maximum of four uppercase letters that indicate, respectively, the 160-, 40-, 10-, and 2.5-acre tract in which the site is located. These letters are assigned in a counterclockwise direction beginning with "A" for the northeast quarter. A serial number following the last letter is

used to distinguish between wells or springs located in the same 2.5-acre tract. Thus, well 4N6E19AABA (fig. 6) is in the $NE^{1}/4NW^{1}/4NE^{1}/4NE^{1}/4$, sec. 19, T. 4 N., R. 6 E.

Another method is the station identification number, which is based on the international system of latitude and longitude. The number contains 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude north of the equator. The next seven digits denote the degrees, minutes, and seconds of longitude west of the prime (Greenwich) meridian. The last two digits are sequential numbers for sites located at the same latitude and longitude. The latitudes or longitudes originally assigned to sites occasionally are determined to be incorrect. In these cases, the latitude or longitude is corrected, but the station identification number generally remains unchanged. Thus, the latitude or longitude for an occasional site may not correspond exactly with the station identification number.

Another method of station identification is the use of any other identifier(s) that may be associated with a site. In the case of many of the observation wells, two other identifiers have been assigned. One is a name assigned by DENR that denotes the county in which the well is located and the year and sequence in which it was drilled. In most cases, another identifier referring to a nearby geographic feature also is used.

Two methods of station identification are used to identify surface-water sites for which water-quality data are presented. Sites that are used only for water-quality sampling are identified by the 15-digit station identification number based on latitude and longitude that was described previously. Sites for which streamflow records also are available are identified by an 8-digit station identification number that increases in a downstream direction.

In addition to the aforementioned methods of station identification, sequential site numbers are assigned to various sites in several subsequent sections of this report. The sequential site numbers are used to display locations of sites on several figures, where displaying longer identification numbers is not feasible because of the close proximity of some sites.

Acknowledgments

The authors wish to acknowledge the efforts of the West Dakota Water Development District for

helping make the Black Hills Hydrology Study a reality. West Dakota's coordination of various local and county cooperators has been a key element in making this study possible.

The authors also wish to recognize the efforts of the Water Rights Program of DENR for making possible the publication of numerous water-level records included in this report. The foresightedness of DENR staff in development of the observation-well network has been extremely valuable. The cooperation of DENR staff in sharing responsibilities for collection of field data also is greatly appreciated.

WATER-LEVEL DATA

Water-level data are presented for two different networks of wells that are completed in various bedrock formations in the Black Hills area. The first set of water-level data consists of daily records for a network of observation wells that generally have been constructed by DENR specifically for the purpose of collecting water-level data in the Black Hills area. Most of these observation wells are instrumented with some type of continuous recorder, from which daily water-level records are compiled. This network also includes two cave sites for which daily water-level records are compiled.

The second set of water-level data is for a network of selected miscellaneous wells at which a single annual measurement of water level is collected. These wells are part of a former statewide network of wells completed in bedrock aquifers, that was operated from 1959 through 1989, in cooperation with DENR (Bradford, 1981; Winter, 1994). Many of the wells in this network are privately owned production wells.

Water levels within wells can be affected by several factors. Short-term declines in water levels can result from pumping of nearby wells or dry climatic conditions. Long-term declines generally indicate that the discharge rate from the aquifer exceeds recharge for a given period of time. Conversely, increases in water levels generally correspond with periods of wetter climatic conditions when aquifer recharge exceeds discharge. Changes in barometric pressure also can cause short-term (hourly and daily) changes in water levels in artesian aquifers. Measured water levels are further affected by the recording equipment and methods used to monitor wells.

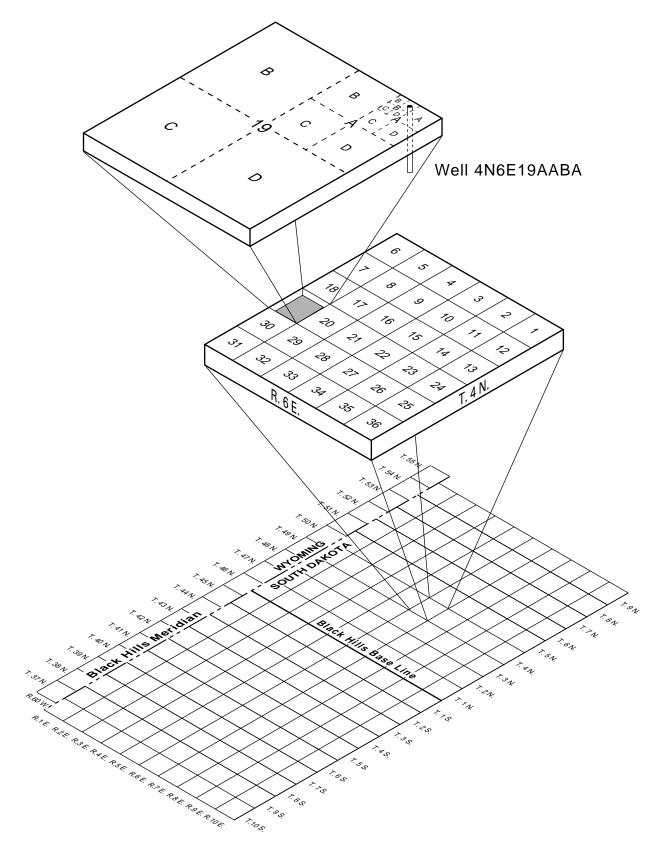


Figure 6. System for assignment of local numbers.

Observation Wells and Cave Sites

This section presents daily water-level data for a network of 71 observations wells and 2 cave sites. Most of the wells have been constructed by DENR and are instrumented with some type of recorder. DENR and USGS personnel have shared responsibility for collection of field data; however, since 1989, most field data collection has been performed by DENR personnel. The USGS generally has been responsible for compilation of the water-level records. Several wells

that have been operated by USGS for other studies are included in this report. These records have not been published previously; thus, some records prior to water year 1995 are included. Both cave sites are located within the Madison Limestone and are the only known caves in the Black Hills area that extend to a level at which the Madison Limestone is saturated. The locations of these sites, with assigned site numbers and local well numbers, are presented in figure 7. Additional information for these sites is presented in table 1.

Table 1. Observation wells and cave sites for which daily water-level records are presented

Мар		Station	Latitude	Longitude			Beginning
number from figure 7	USGS local number	identification number	(degrees, m	inutes, seconds)	Other identifier(s)	Aquifer	date of record
			Law	rence County			
1	7N 3E22DAAD	443306103434001	443310.8	1034347.2	LA-90B Saint Onge	Inyan Kara	03-19-91
2	7N 2E10BADC	443515103513901	443513.1	1035143.4	LA-62A Redwater	Minnelusa	06-30-62
3	7N 1E33CCDD3	443100104002003	443104.2	1040025.3	LA-94A State Line Mnkt	Minnekahta	11-30-94
4	7N 1E33CCDD2	443100104002002	443104.2	1040025.3	LA-87B State Line Mnls	Minnelusa	09-24-87
5	7N 1E33CCDD	443100104002001	443104.2	1040025.3	LA-87A State Line Mdsn	Madison	10-05-87
6	6N 3E15DDDA2	442833103434602	442834.0	1034346.2	LA-95A Frawley Ranch Mdsn	Madison	09-18-95
7	6N 3E15DDDA	442833103434601	442834.5	1034346.2	LA-88A Frawley Ranch Mnls	Minnelusa	08-10-88
8	6N 2E19DABA2	442802103544602	442759.6	1035449.2	LA-96C Tinton Road Mnls	Minnelusa	08-29-97
9	6N 2E19DABA	442802103544601	442759.6	1035449.2	LA-96B Tinton Road Mdsn	Madison	07-16-97
10	6N 2E14BCCC2	442854103505602	442854.4	1035053.6	LA-88C Spearfish GC Mdsn	Madison	08-26-88
11	6N 2E14BCCC	442854103505601	442854.4	1035053.6	LA-88B Spearfish GC Mnls	Minnelusa	08-04-88
12	6N 2E 5BBBB2	443100103543002	443104.3	1035437.7	LA-86B Spearfish W Mnkt	Minnekahta	07-25-86
13	6N 2E 5BBBB	443100103543001	443104.3	1035437.7	LA-86A Spearfish W Mnls	Minnelusa	07-12-86
14	5N 4E22ADDA	442301103365501	432301	1033655	LA-96D Boulder Canyon Mdsn	Madison	10-27-97
15	5N 4E14ADD	442344103253401	442343.6	1033525.9	LA-63A Boulder Canyon Mnls	Minnelusa	05-15-63
16	5N 4E 1ABBD2	442545103343702	442544.3	1033437.1	LA-90A Whitewood Mdsn	Madison	11-27-90
17	5N 4E 1ABBD	442545103343701	442544.4	1033437.5	LA-86C Whitewood Mnls	Minnelusa	07-17-86
18	5N 1E11DABA	442435103571101	442434.6	1035710.8	LA-95C Big Hill Trailhead	Madison	12-20-95
19	4N 2E20BBAC2	441757103544602	441757.5	1035445.5	LA-96A Cheyenne Xing Ddwd	Deadwood	05-21-97

Table 1. Observation wells and cave sites for which daily water-level records are presented-Continued

Мар		Station	Latitude	Longitude			Beginning
number from figure 7	USGS local number	identification number	(degrees, m	inutes, seconds)	Other identifier(s)	Aquifer	date of record
			Lawrence	County—Continue			
20	4N 2E20BBAC	441757103544601	441757.5	1035445.5	LA-95B Cheyenne Xing Mdsn	Madison	09-28-95
21	3N 2E33DBDA	441034103524701	441034.0	1035247.0	LA-94B Black Fox	Deadwood	06-28-95
			Mo	eade County			
22	6N 5E16CDCC	442828103312001	442827.8	1033123.2	MD-89A Bear Butte	Lakota (Inyan Kara)	09-08-89
23	5N 5E16CAAD	442335103311001	442336.7	1033111.2	MD-86A Sturgis	Madison	06-16-86
24	4N 6E19AABA3	441759103261203	441759.9	1032612.3	MD-95A Tilford Mnkt	Minnekahta	09-18-95
25	4N 6E19AABA2	441759103261202	441759.7	1032612.2	MD-90A Tilford Mdsn	Madison	07-10-91
26	4N 6E19AABA	441759103261201	441800.1	1032612.4	MD-84B Tilford Mnls	Minnelusa	07-17-84
27	3N 6E15ABB2	441337103225002	441335.5	1032250.5	MD-94A Piedmont Mdsn	Madison	11-30-94
28	3N 6E15ABB	441337103225001	441335.6	1032250.7	MD-84A Piedmont Mnls	Minnelusa	07-17-84
			Penn	ington County	r reamont wins		
29	2N 7E34BCCA	440528103161001	440530.9	1031614.2	PE-64A Cement Plant	Minnelusa	06-30-64
30	2N 7E32ABBC2	440544103180002	440543.6	1031805.2	PE-89C City Quarry Mdsn	Madison	02-23-90
31	2N 7E32ABBC	440544103180001	440543.6	1031805.2	PE-89D City Quarry Mnls	Minnelusa	02-23-90
32	2N 7E17BAAD	440818103180801	440819.8	1031809.9	PE-84B Dog Track	Minnelusa	07-17-84
33	2N 7E13DDAA	440746103124201	440746.0	1031241.8	PE-95E West Nike Rd	Inyan Kara	11-29-95
34	2N 6E15ADAA2	440811103222202	440811.0	1032221.8	PE-96B Doty Ddwd	Deadwood	11-19-96
35	2N 6E15ADAA	440811103222201	440811.1	1032221.8	PE-95C Doty Mdsn	Madison	02-06-96
36	2N 1E27ADAC	440623103583701	440626.8	1035835.9	PE-91A Blind Park	Deadwood	08-16-92
37	1N 8E19AAAB	440216103114101	440215.6	1031141.4	PE-95B Scales	Inyan Kara	05-15-96
38	1N 7E29CADD	440052103181201	440053.6	1031810.4	PE-84A Countryside	Deadwood	07-17-84
39	1N 7E18AAAD	440308103184601	440308.5	1031847.5	PE-96A Cleghorn	Madison	11-07-96
40	1N 7E 8DDCD	440310103173801	440312.4	1031741.6	Chapel Lane 1	Minnelusa	08-21-91
41	1N 7E 8ADDD2	440338103173302	440337.7	1031734.9	PE-89A Canyon Lake Mdsn	Madison	11-02-89
42	1N 7E 8ADDD	440338103173301	440337.6	1031735.1	PE-89B Canyon Lake Mnls	Minnelusa	01-20-90
43	1N 7E 5DBCA	440423103180501	440422.6	1031806.8	W. Cp Rapid 3	Minnelusa	01-13-90
44	1N 7E 3CBAA2	440430103160202	440427.2	1031605.0	PE-65A Sioux Park Mdsn	Madison	07-15-65
45	1N 7E 3CBAA	440430103160201	440427.2	1031605.1	PE-64B Sioux Park Mnls	Minnelusa	07-01-64
46	1N 7E 3BBCC	440446103161701	440444.6	1031618.6	PE-89E Lime Creek	Madison	06-13-90

Table 1. Observation wells and cave sites for which daily water-level records are presented-Continued

Мар		Station	Latitude	Longitude	- <u>-</u>		Beginning
number from figure 7	USGS local number	identification number	, ,	inutes, seconds)	Other identifier(s)	Aquifer	date of record
			U	County—Continue			
47	1N 7E 1DBBB	440427103131701	440426.6	1031318.0	RC 7 Star Village	Madison	12-07-90
48	1N 6E35AADD	440023103211001	440022.9	1032110.2	PE-95D Countryside West	Precambrian	07-31-96
C1	1N 6E13DDD	440228103195701	440223	1031957	Private Cave	Madison	01-29-88
49	1S 2E35ADCA	435517103501801	435515.6	1035018.5	PE-96C Four Corners	Madison	09-20-96
50	1S 7E20CACD	435644103183801	435641.3	1031843.4	Kieffer	Deadwood	05-05-92
51	1S 7E 3CDBD	435916103161801	435915.1	1031620.6	PE-86A Reptile Gardens Mdsn	Madison	08-21-86
52	1S 7E 3CDBD2	435916103161802	435915.1	1031620.6	PE-94A Reptile Gardens Mnls	Minnelusa	10-25-94
53	2S 7E17CCAA	435227103185301	435227.3	1031852.7	PE-95A Hayward	Madison	09-20-95
			Cu	ster County	•		
54	2S 7E34ABBA	435018103155801	435020.3	1031600.3	CU-83A Hermosa West Mnls	Minnelusa	10-20-83
55	2S 7E36CBCB	434946103140501	434948.7	1031417.3	CU-83B Hermosa West Lkot	Lakota (Inyan Kara)	10-02-83
56	3S 1E18DDDB	434700104021401	434701.7	1040215.5	CU-93C Boles Canyon Mdsn	Madison	09-09-93
57	3S 1E18DDDB2	434700104021402	434701.7	1040215.5	CU-93D Boles Canyon Mnls	Minnelusa	09-16-93
58	3S 4E24BCDD	434634103351801	434627.1	1033533.4	CU-86A Custer Test	Precambrian	11-14-86
59	3S 8E19BBBB	434652103130501	434653.7	1031307.2	CU-83C Hermosa South	Lakota (Inyan Kara)	09-27-83
60	4S 6E 1DAAA	434350103201901	434350.9	1032020.2	CU-93A CSP Airport Mdsn	Madison	08-06-93
61	4S 6E 1DAAA2	434350103201902	434350.9	1032020.2	CU-93B CSP Airport Mnls	Minnelusa	08-09-93
62	5S 2E28BCCB	433517103534201	433517.4	1035342.3	CU-95A Hell Canyon Mdsn	Madison	04-09-96
63	5S 2E28BCCB2	433517103534202	433517.4	1035342.3	CU-95B Hell Canyon Mnls	Minnelusa	04-09-96
C2	6S 5E12DBAB	433302103281501	433257	1032827	Windy City Lake	Madison	01-22-88
64	6S 6E21BBBB	433115103251401	433115.4	1032516.1	CU-91A 7-11 Ranch Mdsn	Madison	02-13-92
65	6S 6E21BBBB2	433115103251402	433115.4	1032516.1	CU-91B 7-11 Ranch Mnls	Minnelusa	02-13-92
66	6S 6E21BBBB3	433115103251403	433115.3	1032516.2	CU-96A 7-11 Ranch Mnkt	Minnekahta	02-27-97
			Fall	River County			
67	7S 4E19BCCB	432548103414801	432545.8	1034151.2	FR-92A Mnkt Jnct Mdsn	Madison	09-16-92
68	7S 4E19BCCB2	432548103414802	432545.8	1034151.2	FR-94A Mnkt Jnct Mnls	Minnelusa	05-03-95
69	7S 5E14CCCC	432603103295901	432602.7	1032958.7	FR-95A Vets Home Mdsn	Madison	04-10-96
70	7S 5E14CCCC2	432603103295902	432602.7	1032958.7	FR-95B Vets Home Mnls	Minnelusa	07-31-96
71	9S 6E 3ACAD	431753103233601	431755.4	1032333.8	FR-95C Angostura	Fall River (Inyan Kara)	08-26-96

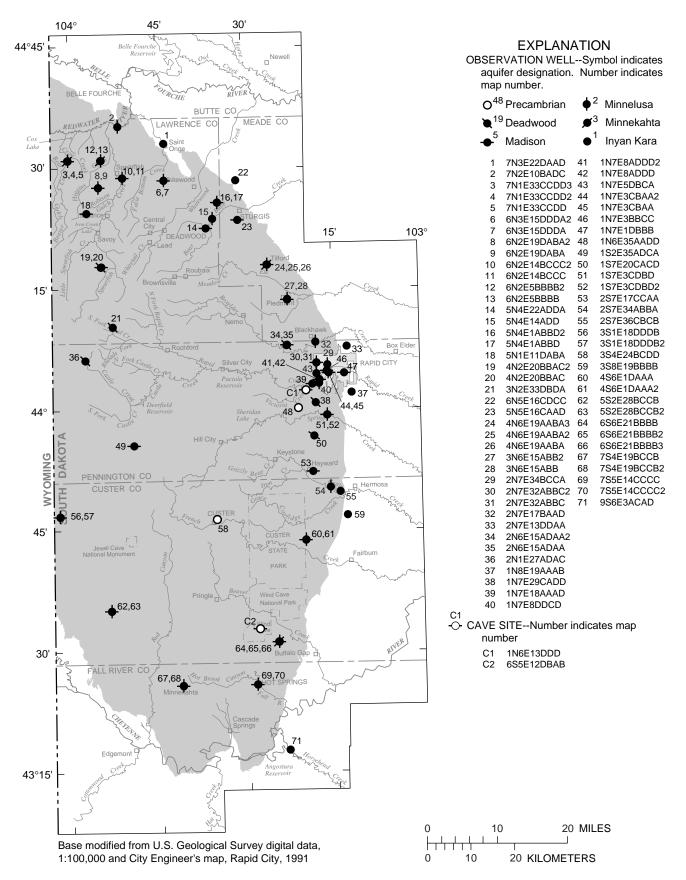


Figure 7. Location of observation wells and cave sites for which daily water-level records are presented.

Site descriptions, water-level hydrographs for the entire period of record that is available, and tabulations of daily water-level records for water years 1995-98 are presented in section A of the Supplemental Information section at the end of the report. Some data for periods prior to water year 1995 are included in tabulations for several sites. These data generally represent revisions or additions to records that have been published previously. A rating of the record for each site is provided in the REMARKS section of each site description. This rating is somewhat subjective, as no formal criteria exist for rating water-level records. The rating is based on the type and relative accuracy of recording equipment, the amount of missing record, and various other problems encountered for each site.

Data for sites 2, 29, 44, and 45 have been published previously by Bradford (1981) and Winter (1994). Data through water year 1992 for 32 of the observation wells and both cave sites were published by Driscoll and Bradford (1994). Data through water year 1994 for 39 of the observation wells and both cave sites were published by Driscoll and others (1996). Data for 32 of the sites have not been published previously.

Data presented in the following section are stored in one or both of two different USGS data bases. Most of the tabular water-level data for water years 1995-98 are presented in a daily format. These data generally were collected using a digital water-level recorder or a data logger, are either the lowest daily water levels or the noon values, and are stored in the Automated Data Processing System (ADAPS) data base. Values for more frequent intervals than daily usually are available for ADAPS data. Some of the data presented in hydrographs for periods prior to water year 1991 are stored in the Ground Water Site Inventory (GWSI) data base. These data generally were collected using circular-chart pressure recorders, are the noon value for every fifth day, and are available in a 5-day format.

Numerous days of missing record exist in the data. Periods of missing record of six or more days

generally are shown as discontinuous, or as a dashed line, on the hydrographs. Dashes are used only where the discontinuous period is sufficiently long for dashes to be visible. There is no implication that the dashed lines are representative of the actual hydrograph.

Some of the daily values presented in the tabular format are noted as "estimated." In many cases, these values were obtained from an instantaneous reading taken during a site visit on a day when the recording equipment at a site was inoperable. In such cases, the instantaneous reading was not necessarily the lowest daily water level (ADAPS) or the noon value (GWSI), and therefore was noted as an estimate.

Miscellaneous Wells

This section presents water-level data for a network of 18 miscellaneous wells at which annual measurements of water level were collected during water years 1995-98. These wells are part of a statewide network of wells completed in bedrock aquifers, that was operated through 1989, in cooperation with DENR. Previous records for these wells have been published by Bradford (1981) and Winter (1994). Annual measurements at selected wells were resumed during 1993 as part of the Black Hills Hydrology Study. Annual measurements for water years 1993-94 were published by Driscoll and others (1996). Many of the wells in this network are used as production wells; thus, water levels may be influenced by effects of pumping.

Locations of the miscellaneous wells are presented in figure 8. Site information and measured water levels during water years 1995-98 are presented in table 2. Brief descriptions and hydrographs for the entire period of record that is available for each site are presented in section B of the Supplemental Information section. Most of these wells generally have been measured annually during the period of record, with the exception of the period from 1990 through 1992. Periods of record without an annual measurement generally are shown as dashed in the hydrographs.

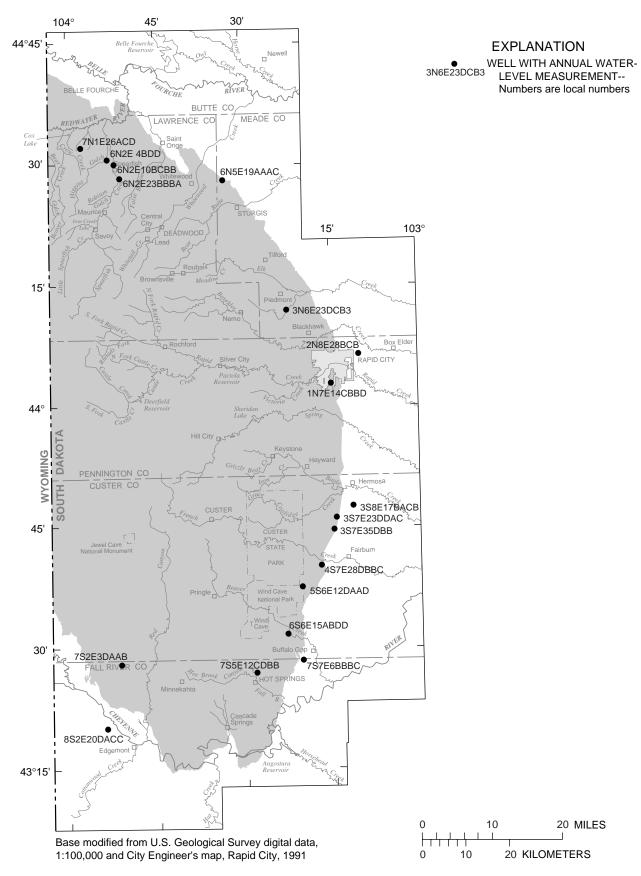


Figure 8. Location of miscellaneous wells for which annual water-level measurements are presented.

Table 2. Site information and measured water levels for miscellaneous wells

	Otation	Latitude	Longitude		Measured water level	
USGS local number	Station identification number	(degrees, mir	nutes, seconds)	- Aquifer	Date	Water level (feet below or above (+) land-surface datum)
]	Lawrence County			
7N 1E26ACD	443215103573001	443215	1035730	Minnelusa	03-24-95 04-11-96 03-10-97 03-21-98	29.87 29.35 24.8 26.09
6N 2E23BBBA	442820103503501	442820	1035035	Minnelusa	03-24-95 04-11-96 03-29-97 03-21-98	82.15 82.35 66.98 67.31
6N 2E10BCBB	443008103514701	443000	1035210	Spearfish	03-24-95 04-11-96 03-10-97	57.07 57.10 56.15
6N 2E 4BDD	443044103525801	443045	1035300	Minnekahta	05-27-95 04-11-96	38.01 37.56
			Meade County			
6N 5E19AAAC	442804103330401	442804	1033304	Fall River	05-23-95 04-12-96 03-11-97 03-25-98	6.30 8.45 4.48 5.13
3N 6E23DCB3	441155103222501	441155	1032225	Spearfish	05-26-95 04-12-96	125.6 125.31
		P	ennington County	7		
2N 8E28BCB	440622103101101	440620	1031010	Lakota	03-12-97 03-08-98	138.67 138.13
IN 7E14CBBD	440243103150001	440245	1031500	Sundance	05-19-95 04-13-96 03-12-97 03-18-98	152.2 150.12 87.68 88.43
			Custer County			
3S 7E23DDAC	434611103142501	434610	1031425	Lakota	05-23-95 04-14-96 03-01-97 03-25-98	309 310.43 325 324.39
3S 7E35DBB	434443103145601	434445	1031455	Lakota	05-27-95 04-14-96 03-18-97 03-25-98	194.32 194.99 196.72 196.31

Table 2. Site information and measured water levels for miscellaneous wells-Continued

	.	Latitude	Longitude		Measured water level	
USGS local number	Station identification number	(degrees, minutes, seconds)		– Aquifer	Date	Water level (feet below or above (+) land-surface datum)
		Custe	er County—Conti	nued		
3S 8E17BACB	434737103113301	434737	1031133	Greenhorn	05-23-95 04-14-96 03-18-97 03-25-98	94.31 93.68 92.39 92.43
4S 7E28DBBC	434016103171001	434020	1031720	Fall River	03-31-95 04-14-96 03-21-98	91.3 91.64 91.32
5S 6E12DAAD	433740103202801	433740	1032028	Lakota	05-26-95 08-18-95 04-15-96 03-25-98	58.05 62.31 60.72 58.12
6S 6E15ABDD	433150103230501	433150	1032305	Madison	03-31-95 04-15-96 03-01-97 03-25-98	+78.6 +77.85 +90. +87.66
		I	Fall River County			
7S 2E 3DAAB	432813103512701	432813	1035127	Sundance	05-18-95 04-18-96 03-11-97	149.7 150.11 149.76
7S 5E12CDBB	432704103282801	432705	1032830	Spearfish	05-18-95 04-18-96	177.35 176.69
7S 7E 6BBBC	432834103203301	432835	1032030	Fall River	05-18-95 04-19-96	366.02 367.68
8S 2E20DACC	432015103535801	432015	1035358	Lakota	05-18-95 04-19-96 03-06-97	37.4 38.24 44.57

WATER-QUALITY DATA

Water-quality data are presented for 58 sites at which samples were collected during water years 1995-98. The sites include 9 surface-water sites, 19 ground-water sites, and 30 sites that have been classified as areas of surface- and ground-water interaction. Laboratory analysis for most constituents were performed by the USGS National Water Quality Laboratory. Analyses for suspended sediment and several selected isotopes were performed by other USGS laboratories.

Surface-Water Samples

Samples were collected at nine surface-water sites. Site information is presented in table 3, and locations of sampling sites are shown in figure 9. Station 06421500 is located on Rapid Creek about 10 mi east of the study-area boundary and therefore is not shown in figure 9.

Chemical analyses of surface-water samples are presented in table 4. Additional water-quality data for samples collected prior to water year 1995 are available for many of the sites. Additional data have been published by Driscoll and Bradford (1994), Driscoll and others (1996), and Williamson (1999). The percent difference between measured anions and cations (in milliequivalents per liter) for five samples was greater

than 5 percent (table 4); the results from these samples should be used with caution. Samples collected for quality assurance are footnoted in table 4. No problems were identified from quality-assurance sampling.

Ground-Water Samples

Samples were collected at 19 ground-water sites. Site information is presented in table 5, and locations of sampling sites are shown in figure 10. The sites in table 5 are numbered from north to south in descending order according to USGS local numbers. With the exception of two private wells (sites 1 and 16), all of the sampling sites are observation wells. Chemical analyses of ground-water samples are presented in table 6. Data for samples collected prior to water year 1995 are presented for supplemental purposes. The earlier data should be used with caution because sampling methods, analytical methods, or reporting limits may have been somewhat different than current methods. The percent difference between measured anions and cations (in milliequivalents per liter) for two samples was greater than 5 percent (table 6); the results from these samples should be used with caution. Samples collected for quality assurance are footnoted in table 6. No problems were identified from qualityassurance sampling.

Table 3. Site information for surface-water sites for which chemical analyses are presented

Station	0	Latitude	Longitude	Drainage area	
identification number	Stream name	(degrees, mir	(degrees, minutes, seconds)		
435229103203600	Battle Creek near Hayward, SD	435229	1032036	Undetermined	
06404000	Battle Creek near Keystone, SD	435221	1032010	66	
06412200	Rapid Creek at Victoria Creek, near Rapid City, SD	440248	1032106	355	
06421500	Rapid Creek near Farmingdale, SD	435631	1025112	602	
06424000	Elk Creek near Roubaix, SD	441741	1033547	21.5	
06430800	Annie Creek near Lead, SD	441937	1035338	3.55	
06430898	Squaw Creek near Spearfish, SD	442404	1035335	6.95	
06436156	Whitetail Creek at Lead, SD	442036	1034557	6.15	
06437020	Bear Butte Creek near Deadwood, SD	442008	1033806	16.6	

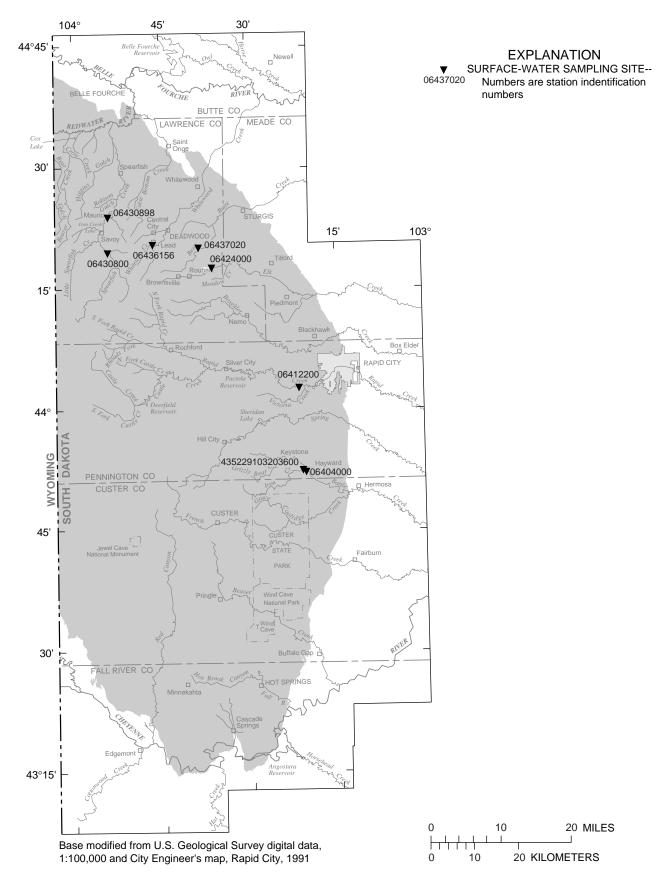


Figure 9. Location of surface-water sampling sites within the study area for which chemical analyses are presented.

 Table 4.
 Chemical analyses of surface-water samples

[INST, instantaneous; DISS, dissolved; TIT, titration; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; DEG C, degrees Celsius; AC-FT, acre-feet; UG/L, micrograms per liter; PCI/L, picocuries per liter; T/DAY, tons per day; --, no data available; <, less than]

STATION NUMBER	STREAM NAME	DATE	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
435229103203600	Battle Creek near Hayward, SD	07-11-95 04-09-96 08-13-96 03-19-97	16 3.9 2.6 5.9	320 383 405 340	8.2 8.3 9.0 7.7	34.0 11.0 30.5 23.0	23.1 5.0 20.5 .5	652 665 673 670
06404000	Battle Creek near Keystone, SD	07-11-95	23	281	8.0	27.0	19.5	653
06412200	Rapid Creek at Victoria Creek near Rapid City, SD	107-12-95 04-08-96 08-14-96 03-20-97	111 87 73 82	354 353 324 355	8.3 8.0 8.3 8.2	18.8 10.0 13.0 9.5	14.6 7.0 15.0 4.8	661 673 682 675
06421500	Rapid Creek near Farmingdale, SD	07-12-95 04-08-96 08-14-96 03-20-97	 129 43 143	640 357 919 840	8.1 8.6 8.7 8.6	29.0 15.0 24.0 25.0	24.6 10.5 23.5 8.0	679 693 702 695
06424000	Elk Creek near Roubaix, SD	¹ 10-26-94 05-22-96 08-28-96 03-19-97	5.4 23 4.0 11	311 274 349 225	7.8 7.9 7.8 7.8	16.5 13.5 28.5 14.0	2.2 8.0 18.8 1.3	623 637 646 646
06430800	Annie Creek near Lead, SD	10-27-94 108-29-95 05-21-96 205-21-96 08-29-96 03-24-97	1.4 .67 5.5 5.5 .86 4.1	344 524 205 2 505 277	8.1 7.4 7.5 8.0 7.8	17.0 27.0 18.5 18.5 17.5	4.0 14.3 5.4 5.4 11.9	614 620 637 637 643 634
06430898	Squaw Creek near Spearfish, SD	10-27-94 08-29-95 05-21-96 09-03-96 03-24-97	3.2 1.5 9.1 1.4 9.1	271 346 195 371 191	7.8 7.8 7.5 8.0 7.8	17.5 32.5 20.5 24.0 4.0	5.5 18.5 8.7 12.4 1.2	629 636 652 653 655
06436156	Whitetail Creek at Lead, SD	10-27-94 05-22-96 09-03-96 03-24-97	4.1 11 2.6 8.6	543 305 571 572	8.0 7.8 8.0 7.9	14.5 22.0 24.5 1.0	6.0 10.7 13.7 2.6	617 633 674 630
06437020	Bear Butte Creek near Deadwood, SD	10-26-94 05-23-96 ³ 05-23-96 ¹ 08-28-96 ¹ 03-19-97	4.8 21 21 2.0 12	288 291 291 397 516	7.8 7.4 7.4 7.6 8.1	17.5 8.0 8.0 28.0 15.0	6.0 8.1 8.1 21.7	626 642 642 649 648

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Field blank collected for quality assurance.

³Replicate sample collected for quality assurance.

OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	ANC UNFILTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
7.8	107	130	91	35	9.5	12	17	0.5	3.9	33	20	0.30
11.0	99	140	94	39	11	15	18	.5	4.1	47	26	1.1
11.9	150	160	117	43	13	17	18	.6	5.0	45	28	.50
10.0	79	120	79	33	9.4	14	20	.6	3.5	38	27	.37
7.7	98	110	78	30	8.7	9.9	16	. 4	3.8	32	15	.30
8.9	101											
10.4	97											
8.9	99											
12.0	106											
7.5	102											
9.4	93											
11.4	146											
14.9	138											
11.5	102	160	157	40	15	2.9	4	.1	1.6	11	2.8	.20
9.9	102	140	140	33	13	2.3	4	.1	1.2	5.9	1.5	<.10
8.2	104	190	185	45	18	2.4	3	.1	1.8	9.2	1.5	.20
11.5	96	110	116	29	10	2.5	4	.1	2.3	7.6	3.4	.10
11.4	108	160	121	41	14	5.9	7	. 2	1.1	26	3.9	.20
8.6	104	210	168	53	18	20	17	.6	2.2	32	8.6	.40
10.6	101	92	83	24	7.8	3.6	8	. 2	.80	9.4	1.9	<.10
			1.4	<.020	<.010	<.20			<.10	<.10	<.10	<.10
8.8	97	230	176	57	22	7.3	6	. 2	1.6	33	5.3	.20
11.3	97	130	98	32	11	5.0	8	. 2	1.0	17	3.0	.20
11.3	109	110	75	29	9.1	7.3	12	.3	1.9	46	4.2	.80
8.8	113	160	137	41	15	4.3	5	.1	2.0	38	2.5	1.0
9.6	97	84	73	22	7.0	3.1	7	.1	1.3	19	2.2	.40
9.2	101	170	149	42	16	7.0	8	. 2	2.0	48	1.6	.90
12.0	99	83	58	22	6.8	3.8	9	. 2	1.4	28	5.4	.70
10.0	100	250	145	72	17	9.7	8	.3	2.2	98	12	.50
8.7	95	130	104	38	8.8	6.2	9	. 2	1.4	31	8.3	.30
9.7	106	260	151	74	18	8.5	7	. 2	2.3	110	11	.50
11.0	98	250	128	70	17	16	12	. 4	2.2	97	32	.40
10.2	100	110	62	32	8.4	7.1	12	.3	2.1	59	8.3	.30
9.9	100	86	64	24	6.4	27	40	1	1.8	69	6.6	.30
9.9	100	86	64	24	6.4	27	40	1	1.8	68	6.2	.30
7.3	98	130	119	37	9.1	30	33	1	2.8	72	6.2	.50
12.0	98	120	64	33	8.8	60	52	2	2.1	170	9.5	.40

Table 4. Chemical analyses of surface-water samples—Continued

[INST, instantaneous; DISS, dissolved; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; DEG C, degrees Celsius; AC-FT, acre-feet; UG/L, micrograms per liter; PCI/L, picocuries per liter; T/DAY, tons per day; --, no data available; <, less than]

		SILICA, DIS- SOLVED (MG/L	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	SOLIDS, DIS- SOLVED (TONS	SOLIDS, DIS- SOLVED (TONS	RESIDUE TOTAL AT 105 DEG C, SUS-	RESIDUE VOLA- TILE, SUS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC DISS	NITRO- GEN, NITRITE DIS- SOLVED
STREAM NAME	DATE	AS SIO2) (00955)	SOLVED (MG/L) (70301)	PER AC-FT) (70303)	PER DAY) (70302)	PENDED (MG/L) (00530)	PENDED (MG/L) (00535)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00613)
Battle Creek near	07-11-95	13	181	0.25	8.04	2	8	<0.015	0.20	<0.010
Hayward, SD	04-09-96	9.1	207	.28	2.18	4	<1	.030	<.20	<.010
	08-13-96	8.5	231	.31	1.60	4	4	.020	.20	.010
	03-19-97	9.8	178	.24	2.84	3	9	.020	<.20	<.010
Battle Creek near Keystone, SD	07-11-95	15	162	.22	10.1	3	8	<.015	.30	<.010
Rapid Creek at	¹ 07-12-95							<.015	<.20	<.010
Victoria Creek near	04-08-96							<.015	<.20	<.010
Rapid City, SD	08-14-96							.020	<.20	.010
	03-20-97							<.015	<.20	<.010
Rapid Creek near	07-12-95							.020	.30	.030
Farmingdale, SD	04-08-96							<.015	.20	.030
	08-14-96							.020	.20	.020
	03-20-97							<.015	.30	.040
Elk Creek near	¹ 10-26-94	11	166	.23	2.41	2	2	<.015	<.20	<.010
Roubaix, SD	05-22-96	11	143	.19	8.73	7	9	.030	<.20	<.010
	08-28-96	12	201	.27	2.19	6	7	.020	<.20	<.010
	03-19-97	9.7	127	.17	3.78	40	13	.060	.30	<.010
Annie Creek near	10-27-94	13	197	.27	.74	6	<1	<.015	<.20	<.010
Lead, SD	¹ 08-29-95	14	292	.40	.53	<1	<1	.530	1.0	.930
	05-21-96	12	111	.15	1.65	2	7	.020	<.20	<.010
	² 05-21-96	<.010				1	9	.030	<.20	<.010
	08-29-96	13	286	.39	.66	6	<1	<.015	<.20	<.010
	03-24-97	12	163	.22	1.81	<1	8	<.015	.20	<.010
Squaw Creek near	10-27-94	14	156	.21	1.35	<1	6	<.015	<.20	<.010
Spearfish, SD	08-29-95	13	201	.27	.83	2	<1	<.015	<.20	<.010
	05-21-96	14	108	.15	2.64	<1	5	.020	<.20	<.010
	09-03-96	12	207	.28	.78	1	<1	<.015	<.20	<.010
	03-24-97	14	116	.16	2.86	<1	10	<.015	<.20	<.010
Whitetail Creek at	10-27-94	15	326	.44	3.64	5	1	<.015	<.20	<.010
Lead, SD	05-22-96	13	164	.22	4.83	8	10	.020	<.20	<.010
•	09-03-96	15	341	.46	2.43	<11	<1	<.015	<.20	.010
	03-24-97	12	338	.46	7.85	6	11	<.015	<.20	<.010
Bear Butte Creek near	10-26-94	11	161	.22	2.10	3	2	<.015	<.20	<.010
Deadwood, SD	05-23-96	13	182	.25	10.3	20	6	.020	<.20	.010
	³ 05-23-96	13	186	.25	10.6	20	5	.020	<.20	.010
	¹ 08-28-96	12	225	.31	1.23	5	6	<.020	<.20	<.010
	¹ 03-19-97	10	327	.45	10.4	164	34	<.015	<.20	<.010

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Field blank collected for quality assurance.

³Replicate sample collected for quality assurance.

NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
<0.050		0.036	0.030	40	38							230
.070		.016	<.010	31	31							150
.060	0.050	.037	.030	54	56							100
.120		.021	.020		20	41	<0.50	2.8	<5.0	<3.0	<10	
<.050		.029	.020	30	27							290
<.050		.002	<.010									
<.050		.003	<.010									
.100	.090	.004	<.010									
.060		.001	<.010									
1.20	1.17	.310	.210									
.880	.850	.230	.180									
.720	.700	.180	.160									
.910	.870	.170	.160									
0.50		010	. 010	1.0	1.5	4.0	. 50	.1 0	0	.2.0	-10	200
.050		.012	<.010	19	15	42	<.50 	<1.0	<5.0 	<3.0	<10	280
.050		.018	.010	16	12							590
.050 .080		.020 .016	.030	40	35 11	36	 <.50	<1.0	 <5.0	<3.0	<10	260
.000		.010	.020		11	30	1.50	VI.0	٧3.0	٧3.0	110	
6.60		.026	.010	20	24							400
15.0	14.1	.030	.030		43	150	<.50	2.0	<5.0	12	<10	
2.50		.037	.030	12	12							200
.050		<.001	<.010	<1	<1							<10
13.0		.032	.030	30	27							110
6.20		.030	.030		19	87	<.50	<1.0	<5.0	<3.0	<10	
1.10		.007	<.010	4	3	60	<.50	<1.0	<5.0	<3.0	<10	120
.420		.010	<.010		5	71	<.50	<1.0	<5.0	<3.0	<10	
.140		.022	.020	3	4							80
.260		.012	.020	5	5							<10
.690		.009	.010		4	50	<.50	<1.0	<5.0	<3.0	<10	
5.20		.008	<.010	15	12							320
.900		.016	.010	12	9							260
4.40	4.39	.020	.020	14	13							210
5.10		.011	.010		7	110	<.50	<1.0	<5.0	<3.0	<10	
.160		.003	<.010	5	<1	36	<.50	3.0	<5.0	3.0	30	1,100
.090	.080	.008	<.010	2	1							1,300
.090	.080	.007	<.010	2	1							1,300
<.050		.010	.010	2	2							100
.510		.004	<.010		<1	32	<.50	<1.0	<5.0	<3.0	<10	

Table 4. Chemical analyses of surface-water samples—Continued

[INST, instantaneous; DISS, dissolved; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; DEG C, degrees Celsius; AC-FT, acre-feet; UG/L, micrograms per liter; PCI/L, picocuries per liter; T/DAY, tons per day; --, no data available; <, less than]

STREAM NAME	DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
Battle Creek near	07-11-95	73			17					
Hayward, SD	04-09-96	28			14					
	08-13-96	46			7.0					
	03-19-97	29	<10	24	19	<10	<10	<1.0	109	<6
Battle Creek near Keystone, SD	07-11-95	130			18					
Rapid Creek at	¹ 07-12-95									
Victoria Creek near	04-08-96									
Rapid City, SD	08-14-96									
	03-20-97									
Rapid Creek near	07-12-95									
Farmingdale, SD	04-08-96									
	08-14-96									
	03-20-97									
Elk Creek near	¹ 10-26-94	70	<10	5	13	<10	<10	1.0	78	<6
Roubaix, SD	05-22-96	39			22					
	08-28-96	52			22					
	03-19-97	33	<10	5	46	<10	<10	<1.0	65	<6
Annie Creek near	10-27-94	22			<1.0					
Lead, SD	¹ 08-29-95	5.0	20	5	1.0	<10	<10	3.0	170	<6
	05-21-96	39			<1.0					
	² 05-21-96	<3.0			<1.0					
	08-29-96	<3.0			<1.0					
	03-24-97	4.0	<10	<4	<1.0	<10	<10	<1.0	100	<6
Squaw Creek near	10-27-94	17	<10	7	1.0	<10	<10	2.0	210	<6
Spearfish, SD	08-29-95	6.0	20	6	<1.0	<10	<10	2.0	250	<6
	05-21-96	25			2.0					
	09-03-96	<3.0			<1.0					
	03-24-97	4.0	<10	<4	1.0	<10	<10	<1.0	140	<6
Whitetail Creek at	10-27-94	9.0			86					
Lead, SD	05-22-96	8.0			7.0					
	09-03-96	<3.0			6.0					
	03-24-97	<3.0	<10	6	24	10	<10	<1.0	350	<6
Bear Butte Creek near	10-26-94	120	<10	6	150	<10	10	<1.0	120	<6
Deadwood, SD	05-23-96	38			46					
	³ 05-23-96	33			46					
	¹ 08-28-96	23			13					
	¹ 03-19-97	<3.0	<10	11	90	<10	<10	<1.0	110	<6

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Field blank collected for quality assurance.

³Replicate sample collected for quality assurance.

ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WATER DISS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA COUNT, 2 SIGMA WATER DISS AS TH-230 (PCI/L) (75987)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
											4	0.20
											5	.06
											3	.02
<3.0											2	.04
											4	.25
											8	1.9
											3	.59
											5	1.1
											85	30
											43	5.0
											41	16
<3.0	2.6	2.9	1.8	2.1	4.3	2.1	2.4	1.7	0.70	0.0	1.0	.17
<3.0	2.0	2.9	1.8	2.1	4.3	Z.1 	3.4				12 12	.74
											5	.05
4.0											96	2.9
											•	0.1
 6.0											2	.01
6.0											6	.09
											5	.01
<3.0											12	.13
6.0	3.6	2.5	2.5	1.8	4.6	1.6	3.6	1.3	3.9	.1		
6.0												
											2	.05
											2	.01
<3.0											4	.09
											16	.18
											10	.29
											14	.10
7.0											15	.34
36	5.5	2.9	3.3	1.7	5.4	1.3	4.0	.96	1.5	.0	12	.16
											30	1.7
											4	.02
<3.0											211	6.7

Table 5. Site information for ground-water sampling sites for which chemical analyses are presented [DENR, South Dakota Department of Environment and Natural Resources; GF&P, South Dakota Department of Game, Fish and Parks; --, not applicable]

Site	USGS local	Station	Other	Site number ²	Latitude	Longitude	. Well depth		
number	number	identification number	identifier(s) ¹	from figure 7 and table 1	(degrees, m	ninutes, seconds)	(feet)	Aquifer	Owner
1	7N 1E11ACAC	443515103572501	(Swanson Ranch)		443508	1035730	1,004	Minnelusa	Private
2	5N 5E16CAAD	442335103311001	(Sturgis) MD-86A	23	442336.7	1033111.2	839	Madison	DENR
3	4N 6E19AABA3	441759103261203	(Tilford Mnkt) MD-95A	24	441759.9	1032612.3	180	Minnekahta	DENR
4	4N 6E19AABA2	441759103261202	(Tilford Mdsn) MD-90A	25	441759.7	1032612.2	840	Madison	DENR
5	4N 6E19AABA	441759103261201	(Tilford Mnls) MD-84B	26	441800.1	1032612.4	302	Minnelusa	DENR
6	3N 6E15ABB2	441337103225002	(Piedmont Mdsn) MD-94A	27	441335.5	1032250.5	880	Madison	DENR
7	3N 6E15ABBB	441337103225001	(Piedmont Mnls) MD-84A	28	441335.6	1032250.7	440	Minnelusa	DENR
8	1N7E18AAAD	440308103184601	(Cleghorn) PE-96A	39	440308.5	1031847.5	200	Madison	DENR
9	2S 7E17CCAA	435227103185301	(Hayward) PE-95A	53	435227.3	1031852.7	540	Madison	DENR
10	2S 7E34ABBA	435018103155801	(Hermosa West Mnls) CU-83A	54	435020.3	1031600.3	510	Minnelusa	DENR
11	3S 1E18DDDB2	434700104021402	(Boles Canyon Mnls) CU-93D	57	434701.7	1040215.5	415	Minnelusa	DENR
12	4S 6E 1DAAA	434350103201901	(CSP Airport Mdsn) CU-93A	60	434350.8	1032020.2	680	Madison	DENR
13	4S 6E 1DAAA2	434350103201902	(CSP Airport Mnls) CU-93B	61	434350.9	1032020.2	270	Minnelusa	DENR
14	5S 2E28BCCB	433517103534201	(Hell Canyon Mdsn) CU-95A	62	433517.4	1035342.3	1,075	Madison	DENR
15	5S 2E28BCCB2	433517103534202	(Hell Canyon Mnls) CU-95B	63	433517.4	1035342.3	642	Minnelusa	DENR
16	6S 6E15ABDD	433150103230501	(Streeter Ranch)		433150	1032305	939	Madison	Private
17	6S 6E21BBBB3	433115103251403	(7-11 Ranch Mnkt) CU-96A	66	433115.4	1032516.1	281	Minnekahta	DENR
18	7S 4E19BCCB2	432548103414802	(Mnkt Jnct Mnls) FR-94A	68	432545.8	1034151.2	710	Minnelusa	DENR
19	7S 5E14CCCC	432603103295901	(Vets Home Mdsn) FR-95A	69	432602.7	1032958.7	915	Madison	DENR

¹Identifier used for table 6 shown in parentheses.
²Applies only to wells for which daily water-level records are presented in previous section.

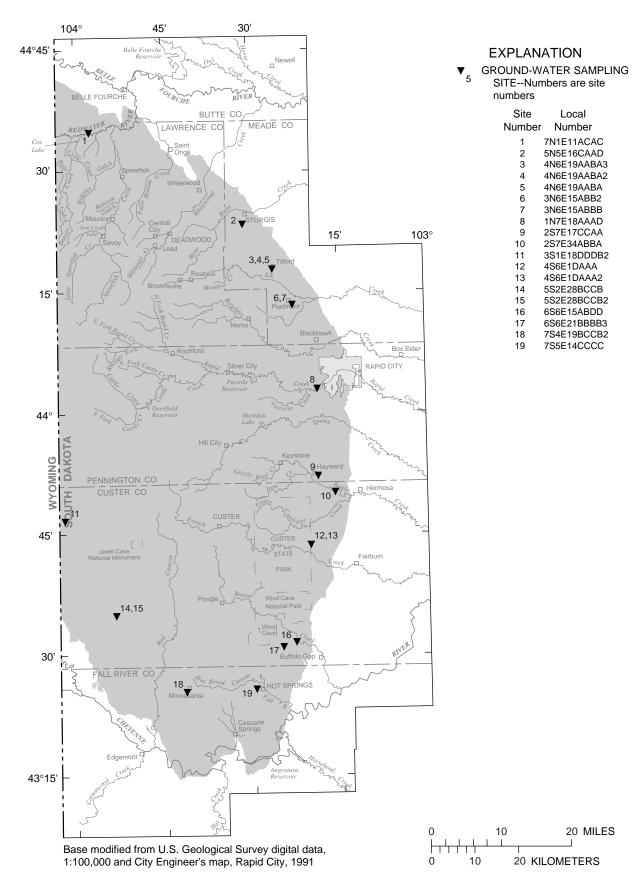


Figure 10. Location of ground-water sampling sites for which chemical analyses are presented.

Table 6. Chemical analyses of ground-water samples

[UNFLTRD, unfiltered; FLTRD, filtered; FET, fixed end point titration; IT, incremental titration; NONCARB, noncarbonate; CARB, carbonate; G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; --, no data available; ND, not detected; <, less than]

STATION NUMBER	OTHER IDENTIFIER	DATE	FLOW RATE (G/M) (00059)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
443515103572501	Swanson Ranch	166		==	7.8				
		04-27-67 08-16-94 08-30-96	8.0 	2,470 1,980 2,580	7.7 7.1 6.9	31.0 26.0	17.0 18.5 17.5	 660 680	0.2 .4
442335103311001	Sturgis	12-02-97	2.5	1,150	7.1	1.0	12.5	674	. 5
441759103261203	Tilford Mnkt	09-19-96	.7	656	7.1	13.0	10.0	670	7.3
441759103261202	Tilford Mdsn	09-03-96		412	7.5	30.0	11.5	670	3.9
441759103261201	Tilford Mnls	08-27-96 ² 08-27-96	5.8 5.8	362 360	7.5 7.5	34.0 34.0	11.0 11.2	671 671	7.8 7.4
441337103225002	Piedmont Mdsn	09-04-96		472	7.3	35.0	12.5	674	3.2
441337103225001	Piedmont Mnls	09-04-96	. 4	495	7.4	33.0		674	5.5
440308103184601	Cleghorn	11-13-96	.3	341	7.6	-8.0	7.0		4.7
435227103185301	Hayward	11-20-97	11.0	325	7.7	5.0	14.5	660	2.7
435018103155801	Hermosa West Mnls	10-28-97 ² 10-28-97	4.5 4.5	258 258	7.7 7.7	 	13.0 12.8	674 674	2.6 2.6
434700104021402	Boles Canyon Mnls	12-17-97		530	7.3	7.0	9.0		
434350103201901	CSP Airport Mdsn	09-06-95	6.0	370	7.9	26.0	14.5	655	. 0
434350103201902	CSP Airport Mnls	08-31-95	.5	417	7.7	18.0		656	5.6
433517103534201	Hell Canyon Mdsn	11-05-97	5.0	830	8.3	7.0	14.5	660	. 4
433517103534202	Hell Canyon Mnls	11-03-97	7.3	1,200	7.4		13.5	655	1.4
433150103230501	Streeter Ranch	105-10-51 12-17-58 05-16-67 11-01-77 03-11-97	 	332 335 391	7.6 7.6 7.3	 52.0	 11.0 12.0	 	 2.1
433115103251403	7-11 Ranch Mnkt	11-13-97	10.0	575	7.2	-3.0	13.0	664	7.2
432548103414802	Mnkt Jnct Mnls	09-11-95	6.7	2,970	7.3	22.0	17.0	644	1.9
432603103295901	Vets Home Mdsn	11-18-97	37.0	885	7.2	10.0	30.5	670	3.2

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Replicate sample collected for quality assurance.

³Sample reported by Busby and others (1983, 1991).

⁴One tritium unit equals 3.24 PCI/L.

			HARD-			ALKA-							
OHIGHN			NESS	HARD-	ALKA-	LINITY	ALKA-						
OXYGEN, DIS-	CARBON	HARD-	NONCARB WHOLE	NESS NONCARB	LINITY WATER	WATER DISS	LINITY UNFLTRD		MAGNE-			SODIUM	POTAS-
SOLVED	DIOXIDE	NESS	WATER	DISS	UNFLTRD	TOTAL		CALCIUM	SIUM,	SODIUM,		AD-	SIUM,
(PER-	DIS-	TOTAL	TOTAL	FIELD	FET	IT	LAB	DIS-	DIS-	DIS-		SORP-	DIS-
CENT	SOLVED	(MG/L	FIELD	AS	FIELD	FIELD	(MG/L	SOLVED	SOLVED	SOLVED	CODIIII	TION	SOLVED
SATUR- ATION)	(MG/L AS CO2)	AS CACO3)	MG/L AS CACO3	CACO3 (MG/L)	MG/L AS CACO3	CACO3	AS CACO3)	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS NA)	SODIUM PERCENT	RATIO	(MG/L AS K)
(00301)	(00405)	(00900)	(00902)	(00904)		(39086)	(90410)	(00915)	(00925)	(00930)	(00932)	(00931)	(00935)
	4.6	3,100			170			650	350	5.0	0	0.0	4.0
	6.7	1,700	1,500		173			550	83	6.8	1	.1	4.1
2	30	1,800		1,600		170	173	570	88	7.6	1	.1	4.1
5													
5	47	660		340		319	320	120	84	5.6	2	.1	5.7
73	50	350		57		292	299	96	26	2.4	1	.1	1.8
41	13	220					196	47	24	1.8	2	.1	1.5
81	12	200		1		198	204	48	19	1.8	2	.1	1.3
							204	49	19	1.8			1.3
												_	
34	24	260				265	270	53	32	1.5	1	.0	1.3
	22	270				273	280	48	36	1.5	1	.0	1.4
	7.9	170		18		151	155	41	16	6.4	7	.2	3.0
31	5.4	150		19		127	131	38	12	8.7	11	.3	2.7
28	4.9	120				124	122	31	10	6.0	10	.2	2.5
						123	121	31	10	5.9			2.5
	24	270		11		259	261	61	28	7.2	5	. 2	3.8
0	4.6	170				168	171	37	18	6.7	8	.2	3.4
8	6.6	170				174	159	44	15	14	15	.5	5.2
5	1.7	160				175	190	49	8.8	103	55	4	20
16	16	640		440		200	203	200	33	22	7	. 4	7.6
		170	0		177			41	16		88		
	7.8	150	0		158			40	13	9.6	12	.3	2.2
	8.1	150	0		166			38	14	9.6	12	. 3	2.1
		160 	0		160 			40	15 	9.2	11 	.3	2.3
79	30	300		45		256	261	79	25	5.3	4	.1	3.1
24	11	1,800		1,600		122	124	520	110	57	7	.6	12
49	28	300		91		214	216	75	28	59	29	1	7.5

Table 6. Chemical analyses of ground-water samples—Continued

[UNFLTRD, unfiltered; FLTRD, filtered; FET, fixed end point titration; IT, incremental titration; NONCARB, noncarbonate; CARB, carbonate; G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; --, no data available; ND, not detected; <, less than]

OTHER IDENTIFIER	DATE	BICAR- BONATE WATER DISS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	WATER DISS IT FIELD	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, RESIDUE AT 180 DEG C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
Swanson Ranch	166				1,800	5.0			2,920	2,980	
	04-27-67 08-16-94	208	0		1,500 1,600	.90 1.2	0.70 .80	12 11	2,270 2,380	2,510	
	08-30-96										
Sturgis	12-02-97	389		0	350	1.5	1.1	7.8	778		<0.020
Tilford Mnkt	09-19-96	356		0	58	3.0	.20	9.3	389		.020
Tilford Mdsn	09-03-96				38	.50	.20	8.5	240		<.015
Tilford Mnls	08-27-96 ² 08-27-96	241		0	8.4 8.5	.90 .90	.10	9.7 9.8	209		<.015 <.015
Piedmont Mdsn	09-04-96	324		0	9.3	.70	. 20	8.7	267		.020
Piedmont Mnls	09-04-96	333		0	4.2	1.0	.20	8.9	267		<.015
Cleghorn	11-13-96	184		0	24	5.6	.30	10	199		.020
Hayward	11-20-97	154		0	23	9.3	.28	13	185		<.020
Hermosa West Mnls	10-28-97	152		0	14	1.4	.31	11	153		.038
	² 10-28-97	150		0	14	1.4	.37	11			<.015
Boles Canyon Mnls	12-17-97	316		0	26	5.9	. 29	9.6	304		<.020
CSP Airport Mdsn	09-06-95	205		0	22	1.4	.40	9.8	201		<.015
CSP Airport Mnls	08-31-95	213		0	38	2.7	.50	8.4	237		<.015
Hell Canyon Mdsn	11-05-97	200		6	230	4.3	.81	9.0	535		1.21
Hell Canyon Mnls	11-03-97	244		0	470	4.0	.93	8.6	870		<.020
Streeter Ranch	105-10-51		5		9.0	25		17			
	12-17-58 05-16-67		0 0		12 12	2.0	.30	21 17	196 195	198 201	
	11-01-77				9.4	2.5	.40	17	195	183	
	03-11-97										
7-11 Ranch Mnkt	11-13-97	313		0	54	3.2	.28	9.2	339		<.020
Mnkt Jnct Mnls	09-11-95	149		0	1,800	12	.60	11	2,620		.340
Vets Home Mdsn	11-18-97	261		0	120	81	.75	19	521		<.020

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Replicate sample collected for quality assurance.

³Sample reported by Busby and others (1983, 1991).

⁴One tritium unit equals 3.24 PCI/L.

NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DISS (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3) (71850)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
				<0.100									
					0.00								
	<0.10	<0.010	<0.050				<0.010	0.029		1.1	1	37	<1.0
	<.20	.030	3.50			3.47	.010	.020		<1.0	1	340	<.50
	<.20	<.010	.120				<.010	<.010		<1.0	<1	85	<.50
	<.20	<.010	.240				<.010	.020		<1.0	2	210	<.50
	<.20	<.010	.220				.010	.010		<1.0	2	210	<.50
	<.20	.010	.180			.170	<.010	<.010		<1.0	1	140	<.50
	<.20	<.010	.290				<.010	<.010		<1.0	<1	420	<.50
	<.20	<.010	.300				.020	.020		<1.0	3	82	<.50
	<.10	<.010	.236				<.010	.014		1.3	6	121	<.50
	<.20 <.20	<.010 <.010	.179 .176				<.010 <.010	<.010 <.010		2.7	15 15	111 110	<.50 <.50
	.11	<.010	1.30				.030	.015		<1.0	<1	60	<1.0
	<.20	<.010	.160				<.010	<.010		<1.0	4	24	<.50
	<.20	<.010	.800				<.010	<.010		<1.0	<1	36	<.50
	1.4	.024	<.050				<.010	.015		<1.0	2	17	<.50
	<.10	<.010	.740				.026	.013		<1.0	<1	40	<.50
					1.0	.000							
<0.10							<.010		10		11	<100	
	.13	.014	1.11			1.10	<.010	.027		1.7	5	206	<.50
	.30	.050	1.70			1.65	<.010	<.010		<1.0	2	12	<1.5
	<.10	<.010	.353				<.010	<.010		1.2	3	41	<.50

Table 6. Chemical analyses of ground-water samples—Continued

[UNFLTRD, unfiltered; FLTRD, filtered; FET, fixed end point titration; IT, incremental titration; NONCARB, noncarbonate; CARB, carbonate; G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; --, no data available; ND, not detected; <, less than]

OTHER IDENTIFIER	DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON (UG/L AS FE) (71885)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
Swanson Ranch	166						<0			
	04-27-67 08-16-94	40					60 			
	08-30-96									
Sturgis	12-02-97	19	<1.0	<5.0	<3.0	<10		4,500		<100
Tilford Mnkt	09-19-96	17	<1.0	5.0	4.0	<10		<3.0		<10
Tilford Mdsn	09-03-96	21	<1.0	<5.0	<3.0	<10		39		<10
Tilford Mnls	08-27-96	20	<1.0	<5.0	<3.0	<10		38		<10
	² 08-27-96	16	<1.0	<5.0	<3.0	<10		32		<10
Piedmont Mdsn	09-04-96	20	<1.0	<5.0	<3.0	<10		76		<10
Piedmont Mnls	09-04-96	20	<1.0	<5.0	<3.0	<10		61		<10
Cleghorn	11-13-96	27	<1.0	6.0	<3.0	<10		11		<10
Hayward	11-20-97	25	<1.0	<5.0	<3.0	<10		79		<10
Hermosa West Mnls	10-28-97	29	<1.0	<5.0	<3.0	<10		15		<10
	² 10-28-97	30	<1.0	<5.0	<3.0	<10		12		<10
Boles Canyon Mnls	12-17-97	33	<1.0	<14	<12	<10		<10		<100
CSP Airport Mdsn	09-06-95	30	<1.0	<5.0	5.0	<10		760		<10
CSP Airport Mnls	08-31-95	40	<1.0	<5.0	<3.0	<10		21		<10
Hell Canyon Mdsn	11-05-97	588	<1.0	<5.0	<3.0	<10		370		<10
Hell Canyon Mnls	11-03-97	148	<1.0	5.8	<3.0	<10		770		<10
Streeter Ranch	¹ 05-10-51									
	12-17-58						30			
	05-16-67	30							10	
	11-01-77 03-11-97	30	ND 	ND 		ND 		20 		2.0
7-11 Ranch Mnkt	11-13-97	28	<1.0	<5.0	<3.0	<10		220		<10
Mnkt Jnct Mnls	09-11-95	340	<3.0	<15	<9.0	<30		1,700		<30
Vets Home Mdsn	11-18-97	167	<1.0	<5.0	<3.0	<10		490		<10

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Replicate sample collected for quality assurance.

³Sample reported by Busby and others (1983, 1991).

⁴One tritium unit equals 3.24 PCI/L.

LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MANGA- NESE (UG/L AS MN) (71883)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)
	ND												
	40												
													-8.40
27		196		<0.1	<60	<10	<1	<1.0	1,500	0.60	<6	8.8	-4.96
7		<1.0		<.1	<10	<10	1	<1.0	1,700	<.50	<6	8.0	-14.40
<4		83		<.1	<10	<10	2	<1.0	170	<.50	<6	<3.0	-9.60
5		10		<.1	<10	10	<1	<1.0	130	<.50	<6	13	-9.70
5		11		<.1	<10	<10	<1	<1.0	130	<.50	<6	18	
<4		59		<.1	<10	<10	1	<1.0	140	<.50	<6	<3.0	-9.10
<4		76		<.1	<10	<10	<1	<1.0	130	<.50	<6	12	-10.00
11		23		<.1	<10	<10	7	<1.0	160	<.50	<6	17	-8.90
20		4.1		<.1	<10	<10	<1	<1.0	144	<.50	<6	5.2	-10.59
14 14		8.4 7.9		<.1 <.1	<10 <10	<10 <10	2 2	<1.0 <1.0	239 235	<.50 <.50	7 6	3.9 <3.0	-8.39
1.1		7.5		\. <u>.</u>	V±0	110	2	`1.0	255	V.50	0	13.0	
18		18		<.1	<60	<40	12	<4.0	199	<.50	<10	<20	-9.86
15		25		<.1	10	<10	14	<1.0	390		<6	4.0	-8.80
27		58		<.1	10	<10	2	<1.0	400		<6	25	-7.80
130		27		<.1	18	<10	18	<1.0	919	<.50	<6	<3.0	-8.08
57		19		<.1	102	<10	12	<1.0	2,330	<.50	<6	<3.0	-8.42
		.00											
			30										
<10		4.0		<.1	1.0		2		280		4	2.0	
10		3.7		<.1	13	<10	3	<1.0	510	<.50	<6	3.0	-8.66
69		110		<.1	50	<30	5	<3.0	9,400		<18	29	-6.90
100		39		<.1	15	11	3	<1.0	1,330	<.50	<6	39	-7.57

Table 6. Chemical analyses of ground-water samples—Continued

[UNFLTRD, unfiltered; FLTRD, filtered; FET, fixed end point titration; IT, incremental titration; NONCARB, noncarbonate; CARB, carbonate; G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, piccouries per liter; DPM/L, decays per minute per liter; --, no data available; ND, not detected; <, less than]

OTHER IDENTIFIER	DATE	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	SULFUR -34/-32 WATER FLTRD PER MIL (49932)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT) (01515)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WATER DISS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA COUNT, 2 SIGMA WATER DISS AS TH-230 (PCI/L) (75987)
Swanson Ranch	166 04-27-67									
	08-16-94		-17.45	12.80						
	08-30-96	-132.0	-17.46							
Sturgis	12-02-97	-111.7	-15.11		-7.10				21	7.0
Tilford Mnkt	09-19-96	-110.0	-14.63		10.60				<3.0	2.3
Tilford Mdsn	09-03-96	-118.0	-15.61		-10.00				3.6	2.5
Tilford Mnls	08-27-96		-15.52		2.70				<3.0	1.8
	² 08-27-96	-118.0	-15.56						<3.0	1.8
Piedmont Mdsn	09-04-96	-103.0	-13.68		-6.50				3.9	2.7
Piedmont Mnls	09-04-96	-100.0	-13.61		.900				<3.0	1.7
Cleghorn	11-13-96	-96.8	-12.44		5.90				5.5	2.6
Hayward	11-20-97	-87.9	-12.06		5.90				<3.0	2.1
Hermosa West Mnls	10-28-97 ² 10-28-97	-87.3 -87.3	-11.98 -11.98		7.20				6.4 3.4	2.7
Boles Canyon Mnls	12-17-97	-123.6	-15.88		-13.10				7.9	3.3
CSP Airport Mdsn	09-06-95	-87.6	-11.75		-4.30		5.3	1.8	3.8	1.3
CSP Airport Mnls	08-31-95	-84.9	-11.50		-1.20		10	5.2	7.1	3.6
Hell Canyon Mdsn	11-05-97	-130.8	-17.23		4.70				5.4	3.2
Hell Canyon Mnls	11-03-97	-111.4	-14.21		12.00				22	6.8
Streeter Ranch	105-10-51									
	12-17-58									
	05-16-67 11-01-77					 9.5	 14			
	03-11-97	-86.8	-11.87							
7-11 Ranch Mnkt	11-13-97	-94.5	-12.44		10.20				6.7	3.2
Mnkt Jnct Mnls	09-11-95	-104.0	-13.87				140	27	100	19
Vets Home Mdsn	11-18-97	-121.9	-15.97		10.90				8.6	3.9

¹Percent difference between cations and anions (in milliequivalents per liter) exceeds 5 percent; use data with caution.

²Replicate sample collected for quality assurance.

³Sample reported by Busby and others (1983, 1991).

⁴One tritium unit equals 3.24 PCI/L.

GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	ITY RATIO	RA-228/ RA-226 1 SIGMA (99912)	RA-226 RADON EMAN- ATION (DPM/L) (99913)	RA-226 1 SIGMA (99914)	RA-228 ARITH- METIC (DPM/L) (99915)		URANIUM NATURAL 2 SIGMA WATER, DISS (UG/L) (75990)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	TRITIUM TOTAL (TRITIUM UNITS ⁴)
				0.021	0.002	 35.080	1.600	0.740			2.0	1.0	0.62
									10	0.6			
21	5.9								22	1.4	1.0	1.0	0.31
7.0	3.8								1.2	.0	140	8.0	43
<4.0	1.7								1.4	.0	4.0	1.0	1.2
4.0	2.0								.78	.0	100	6.0	31
4.7	2.2								.78	.0	96	6.0	30
4.5	2.4								4.0	.1	<1.0	1.0	<1.0
<4.0	2.2								.81	.0	3.0	1.0	.93
8.8	2.5								1.5	.0	82	5.0	25
5.1	3.9								1.7	.1	60	3.8	19
4.3	3.8								2.4	.1	<1.0	1.0	<1.0
<4.0	3.8								2.3	.1	<1.0	1.0	<1.0
4.1	3.9								5.7	.1	3.2	1.0	.99
5.2	1.4	4.3	.89	.100	.005	2.390	.310	.240	3.0	. 2	<1.0	1.0	<1.0
6.1	4.3	4.5	3.1	.820	.046	.330	.030	.270	3.9	. 2	3.0	1.0	.93
19	4.7								7.8	.5	1.9	1.0	.59
19	5.7								13	.9	<1.0	1.0	<1.0
4.6		4.2									34 37	 2.6	³ 10.6 11
5.3	4.0								3.1	.1	79	4.5	24
20	6.2	15	4.6	.662	.033	1.660	.025	1.100	12	.8	<1.0	1.0	<1.0
13	4.4								3.5	. 2	<1.0	1.0	<1.0

Surface- and Ground-Water Interaction Samples

Samples were collected at 30 surface- and ground-water interaction sites. Samples in this category are divided into three further subdivisions, including samples immediately upstream of loss zones, samples from headwater springs, and samples from springs downgradient of loss zones. Site information for these subdivisions is presented in tables 7, 8, and 9, respectively, and locations of the sampling sites are shown in figure 11. Loss zone samples were collected in areas where streamflow losses provide recharge to the Madison and Minnelusa aquifers. Samples from headwater springs were collected from three primary geohydrologic units from which headwater springs originate: the Deadwood Formation, the Madison

Limestone, and the Minnelusa Formation. Additional information regarding these samples was presented by Wenker (1997). Downgradient spring samples were collected from streams with large springs that occur downgradient from outcrops of the Madison and/or Minnelusa Formations. Additional data collected prior to water year 1995 are available for some of these sites and can be obtained from the USGS upon request.

Chemical analyses of samples for the three subdivisions are presented in tables 10-12. The percent difference between measured anions and cations (in milliequivalents per liter) was greater than 5 percent for two samples from downgradient spring sampling sites (table 12); the results from these samples should be used with caution. Samples collected for quality assurance are footnoted in tables 10-12.

Table 7. Site information for sampling sites located immediately upstream of loss zones for which chemical analyses are presented

Site	Station	.	Latitude	Longitude
number	identification number	Station name	(degrees, mir	nutes, seconds)
LZ1	06402430	Beaver Creek near Pringle	433453	1032834
LZ2	06403300	French Creek above Fairburn	434302	1032203
LZ3	06404000	Battle Creek near Keystone	435221	1032010
LZ4	06404998	Grace Coolidge Creek near Game Lodge	434540	1032149
LZ5	06407500	Spring Creek near Keystone	435845	1032025
LZ6	06422500	Boxelder Creek near Nemo	440838	1032716
LZ7	441742103333300	Elk Creek above Meadow Creek	441742	1033333
LZ8	441738103333400	Meadow Creek above Elk Creek	441738	1033334
LZ9	06429920	Bear Gulch near Maurice	442514	1040226
LZ10	06430520	Beaver Creek near Maurice	442257	1040013
LZ11	06437020	Bear Butte Creek near Deadwood	442008	1033806

Table 8. Site information for headwater spring sampling sites for which chemical analyses are presented

Site	USGS local	Station	Cuning grane	Latitude	Longitude	Geohydrologic
number	number	identification number	Spring name	(degrees, minu	ıtes, seconds)	unit ¹
HW1	6N 1E30DAAD	442706104015401	Knight Spring	442706	1040154	Minnelusa
HW2	3N 5E13ACAA	441322103272801	Unnamed spring	441322	1032728	Deadwood
HW3	3N 3E14CBBB	441310103435901	JHD Spring	441310	1034359	Deadwood
HW4	3N 2E 6CCCD	441434103560001	Intake Gulch	441434	1035600	Madison
HW5	2N 2E15ADB	06408700	Rhoads Fork	440812	1035129	Madison
HW6	2S 1E34DBAC	434953103585201	Barrel Spring	434953	1035852	Minnelusa
HW7	4S 2E26AABC	434045103502301	Water Draw Spring	434045	1035023	Minnelusa
HW8	4S 2E34BCAB	433944103521801	McKenna Spring	433944	1035218	Minnelusa

 $^{^{\}mathrm{l}}\mathrm{Refers}$ to surficial geohydrologic unit and is not necessarily indicative of spring source.

Table 9. Site information for downgradient spring sampling sites for which chemical analyses are presented

Site	USGS local	Station identification	Name of anxing as atream	Latitude	Longitude
number	number ¹	number	Name of spring or stream	(degrees, mir	nutes, seconds)
DG1	7N 2E28BACD	443237103525801	Higgins Gulch	443237	1035258
DG2	7N 2E20DAAD	443309103532401	Old Spearfish Hatchery	443309	1035324
DG3	7N 1E16BDB	06430532	Crow Creek near Beulah, WY	443414	1040019
DG4	7N 1E16DADC	443356103593701	Cox Lake	443356	1035937
DG5	3N 8E 9AA	06425100	Elk Creek near Rapid City	441425	1030903
DG6	1S 8E21CCC	06408500	Spring Creek near Hermosa	435631	1030932
DG7	2S 7E34BBD	435013103162600	Battle Creek	435013	1031626
DG8	3S 7E17DCDD	434655103181701	Grace Coolidge Creek	434655	1031817
DG9	7S 5E24BB	06402000	Fall River at Hot Springs	432550	1032833
DG10	8S 5E20CDAB	432006103330501	Cascade Spring	432006	1033305
DG11	8S 5E20DBCB	432028103331601	Cool Spring	432028	1033316

¹Refers to sampling location.

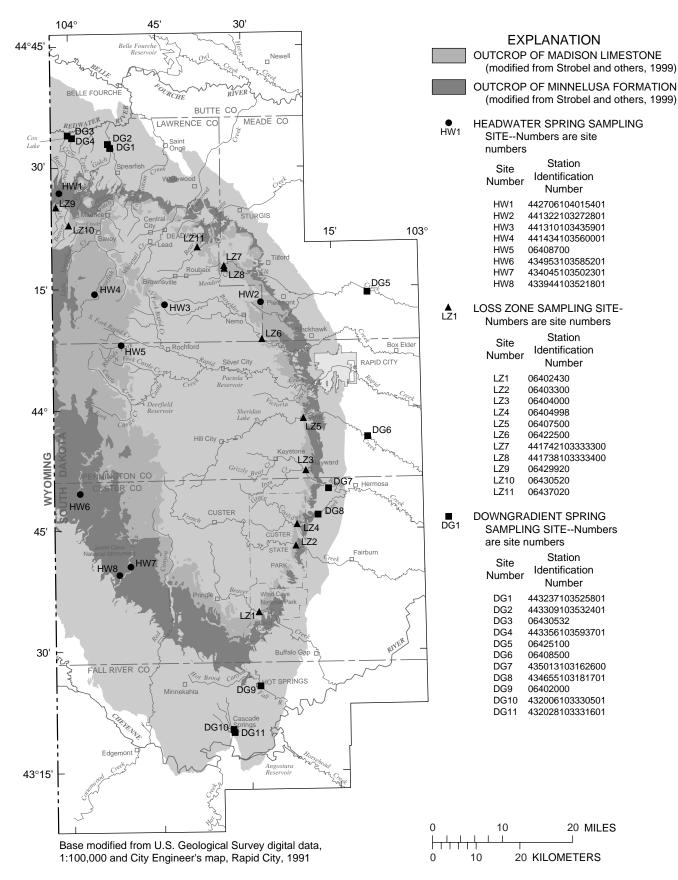


Figure 11. Location of surface- and ground-water interaction sites for which water-quality data are presented.

 Table 10.
 Water-quality data for samples collected immediately upstream of loss zones

[INST, instantaneous; US/CM, microsiemens per centimeter; PCI/L, picocuries per liter; DEG C, degrees Celsius; E, estimated; --, no data available]

STREAM NAME	DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	TRITIUM TOTAL (TRITIUM UNITS ¹)
Beaver Creek near Pringle	10-01-96 09-10-97	2.9 4.9	525 496		11.5 26.0	9.0 13.0	-92.4 -91.9	-12.38 -12.18	83 73	5.0 4.5	26 23
French Creek	10-07-96 09-11-97	8.4 17	306 290		19.0 28.0	11.0 18.0	-89.8 -89.1	-11.54 -11.62	65 58	4.0	20 18
Battle Creek	09-06-96 09-12-97	E11.8 5.9	300 355	8.2	16.0 32.0	17.0 19.0	-82.4 -87.2	-11.09 -11.92	61 61	4.0	19 19
Grace Coolidge Creek	09-10-96 09-12-97	E4.7 8.2	201 208	8.3	30.0 18.0	18.0 15.0	-84.2 -87.4	-11.33 -11.82	51 51	3.0 3.2	16 16
Spring Creek	09-09-96	E21.8	262	8.4		16.0	-98.9	-12.89	80	5.0	25
Boxelder Creek	10-08-97	28	366		8.5	10.0	-112.8	-14.76	85	5.1	26
Elk Creek	09-20-96 10-09-97	3.2	358 399	8.3	8.0 10.0	7.5 3.5	-123.0 -124.4	-16.10 -16.37	100 81	6.0 4.5	31 25
Meadow Creek	09-20-96 10-09-97	1.4 1.2	474 542	8.1	8.0 10.0	7.5 4.5	-119.0 -117.4	-15.69 -15.78	120 110	7.0 6.4	37 34
Bear Gulch near Maurice	10-10-96 09-11-97	.40	274 262	 8.4	24.0 27.0	14.5 17.5	-127.0 -130.6	-16.76 -17.16	42 59	3.0 3.8	13 18
Beaver Creek near Maurice	10-09-96 09-11-97	.26	271 266	8.3	25.0 27.0	10.5 18.0	-126.0 -128.8	-16.40 -16.77	75 69	5.0 4.5	23 21
Bear Butte Creek	10-09-96 10-10-97	2.3	320 1,640		15.5 3.5	4.5 4.0	-122.0 -120.3	-16.03 -15.98	99 82	6.0 5.1	31 25

¹One tritium unit equals 3.24 PCI/L.

Table 11. Water-quality data for headwater spring samples

[G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; IT, incremental titration; FET, fixed end point titration; TIT, titration; LAB, laboratory; NAT U, natural uranium; <, less than; --, no data available]

SPRING NAME	DATE	FLOW RATE (G/M) (00059)	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	ALKA- LINITY WAT DISS TOTAL IT FIELD MG/L AS CACO3 (39086)
Knight Spring	08-04-95 08-28-96 09-11-97	 8.0 8.0	 	587 568 590	8.1 7.9 7.5	28.0 17.0	10.3 8.8 6.8	633 665 640	8.8 9.2 9.2	9 91 90	324
Unnamed Spring	08-08-95 09-09-96 09-09-97	39.5 53.0 75.0	 	600 589 590	7.7 7.3 7.3	26.0 30.0 14.0	7.8 7.6 7.3	631 650 	9.5 9.2 9.6	10 90 	329
JHD Spring	09-13-95 09-06-96 09-09-97	 15.7 40.0	.04	540 526 508	7.7 7.2 7.3	26.0 15.0 19.0	7.0 6.8 6.5	606 617 698	 8.0 7.9	 81 70	295
Intake Gulch	08-03-95 08-28-96 09-09-97	 	 8.0	464 455 467	8.0 7.9 8.0	25.0 21.0	9.4 8.0 8.0	610 623 704	9.1 9.2 9.9	100 95 91	256
Rhoads Fork	279 12-05-86 04-14-87 06-12-87 07-06-87 08-11-87 09-05-91 08-07-95 08-28-96 09-09-97	 5.6	 3.9 7.4 8.1	 466 464 460 462	 7.9 8.3 8.1 8.1	 18.0 25.0 28.0 23.0	 7.5 9.1 8.8 9.1	 617 601 619 698	 9.8 9.4 9.3 9.8	 101 9 99 93	
Barrel Spring	07-25-95 09-13-96 09-08-97	1.9 2.0 1.8	 	780 780 767	7.7 7.3 7.4	 18.0 20.0	11.2 10.5 10.6	619 628 632	6.3 7.0 7.3	71 76 80	402
Water Draw Spring	09-14-95 09-13-96 09-08-97	4.7 4.0 4.0	 	533 534 521	7.7 7.3 7.4	20.0 22.0 20.0	8.6 8.6 8.7	635 638 644	8.0 8.6 8.7	83 88 89	272
McKenna Spring	09-14-95 09-13-96 09-08-97	.2 .4 2.0	 	481 463 454	7.3 7.2 7.3	22.0 21.0 21.0	18.1 16.2 12.5	639 643 649	7.4 7.2	95 80	219

¹One tritium unit equals 3.24 PC/L.

²Sample reported by Busby and others (1983, 1991). Sample date unknown but probably collected between 1978 and 1980.

243 324 396 0 90 24 0.90 0.50 4.3 1.2 0.10 9.9 325 329 401 0 60 40 1.4 1.4 6.8 1.0 .10 9.2 298 360 0 56 37 .90 1.5 6.2 .60 <.10 9.3 256 256 314 0 67 21 .80 .80 1.4 .90 .10 13	ALKA- LINITY UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	FET FIELD	FIELD	CAR- BONATE WATER DISS IT FIELD MG/L AS CO3 (00452)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
325 329 401 0 60 40 1.4 1.4 6.8 1.0 .10 9.2	243	324	396	0	90	24	0.90	0.50	4.3	1.2	0.10	9.9		
325 329 401 0 60 40 1.4 1.4 6.8 1.0 .10 9.2														
298														
298 360 0 56 37 .90 1.5 6.2 .60 <.10				-										
256														
256														
256														
219 66 23 1.0 .60 2.2 3.1 <.10														
219														
219 66 23 1.0 .60 2.2 3.1 <.10														
233														
419 402 491 0 56 68 7.6 3.0 19 6.8 .50 14 271 332 0 52 35 6.0 2.6 13 4.5 .50 13 230 267 0 75 12 5.5 2.9 14 6.5 .20 14														
419				-										
271 332 0 52 35 6.0 2.6 13 4.5 .50 13														
271 332 0 52 35 6.0 2.6 13 4.5 .50 13	410	400	401	0	F.6	60	7.6	2 0	1.0	6.0	F.0	1.4		
271 332 0 52 35 6.0 2.6 13 4.5 .50 13				-										
230 267 0 75 12 5.5 2.9 14 6.5 .20 14														
230 267 0 75 12 5.5 2.9 14 6.5 .20 14														
230 267 0 75 12 5.5 2.9 14 6.5 .20 14				-										
										6.5				

Table 11. Water-quality data for headwater spring samples—Continued

[G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; IT, incremental titration; FET, fixed end point titration; TIT, titration; LAB, laboratory; NAT U, natural uranium; <, less than; --, no data available]

SPRING NAME	DATE	NITRO- GEN,AM- MONIA + ORGANIC DISS (MG/L AS N) (00623)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)
Knight Spring	08-04-95 08-28-96 09-11-97		 	 	 		<1.0 	1 	130	<0.50 	20
Unnamed Spring	08-08-95 09-09-96 09-09-97		 	 	 	 	<1.0 	1 	69 	<.50 	20
JHD Spring	09-13-95 09-06-96 09-09-97	 	 	 	 	 	<1.0 	<1 	13 	<.50 	20
Intake Gulch	08-03-95 08-28-96 09-09-97		 	 	 	 	<1.0 	<1 	98 	<.50 	10
Rhoads Fork	279 12-05-86 04-14-87 06-12-87 07-06-87 08-11-87 09-05-91 08-07-95 08-28-96 09-09-97	 <0.20	 <0.010	 0.130	 <0.010	 <.010	 <1.0	 <1 	 64 	 	 <10
Barrel Spring	07-25-95 09-13-96 09-08-97		 	 	 	 	1.0	7 	210 	<.50 	40
Water Draw Spring	09-14-95 09-13-96 09-08-97	 	 	 	 	 	1.0	7 	110 	<.50 	40
McKenna Spring	09-14-95 09-13-96 09-08-97		 	 	 	 	2.0	13 	340 	<.50 	30

¹One tritium unit equals 3.24 PC/L.

²Sample reported by Busby and others (1983, 1991). Sample date unknown but probably collected between 1978 and 1980.

CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
<1.0	<5.0	5.0	<10	3.0	<10	<4	<1.0	<0.1	<10	<10	<1	<1.0	86
<1.0	<5.0	<3.0	<10	16	20	5	1.0	<.1	<10	<10	2	<1.0	110
<1.0	<5.0	<3.0	<10	<3.0	<10	<4	<1.0	<.1	<10	10	<1	<1.0	74
1.0	<5.0	<3.0	<10	3.0	20	<4	<1.0	<.1	20	<10	<1	<1.0	57
<10	<1.0		<1.0	5.0	<1.0		2.0	<.1			<1 		
.1 0	. 5 0	.2 0	.10	4.0	.10	1.6	1.0	1	2.0	-10	2	.1 0	0.770
<1.0	<5.0 	<3.0	<10	4.0	<10	16 	1.0	.1	20	<10	3	<1.0	270
1 0	5 0	2 0	1.0	2 0	1.0	1.0	1.0		2.0	1.0		1 0	0.50
<1.0	<5.0 	<3.0	<10	<3.0	<10	12	<1.0	<.1	30	<10	2	<1.0	260
-1 0	4F 0	-2 0	-10	-2.0	-10	0	-1.0	. 1	1.0	-10	-1	-1 0	1.40
<1.0	<5.0 	<3.0	<10	<3.0	<10	8	<1.0	<.1	10	<10	<1 	<1.0	140

Table 11. Water-quality data for headwater spring samples—Continued

[G/M, gallons per minute; US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; IT, incremental titration; FET, fixed end point titration; TIT, titration; LAB, laboratory; NAT U, natural uranium; <, less than; --, no data available]

SPRING NAME	DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	SULFUR -34/-32 WATER FLTRD PER MIL (49932)	RA-288/ RA-226 ACTIV- ITY RATIO (99911)	RA-228/ RA-226 1 SIGMA (99912)	RA-226 RADON EMAN- ATION (DPM/L) (99913)	RA-226 1 SIGMA (99914)
Knight Spring	08-04-95 08-28-96 09-11-97	6 	<3.0 	-11.90 	-125.0 -127.0 -127.8	-16.85 -16.90 -16.98	 	0.612 	0.026 	0.350	0.060
Unnamed Spring	08-08-95 09-09-96 09-09-97	<6 	<3.0 	-12.20 	-103.0 -106.0 -104.2	-13.86 -13.97 -14.04	 	1.341 	.093	.080	.010
JHD Spring	09-13-95 09-06-96 09-09-97	<6 	4.0	-11.10 	-128.0 -126.0 -126.4	-16.55 -16.61 -16.53	-4.30 	2.136 	.127	.030	.002
Intake Gulch	08-03-95 08-28-96 09-09-97	<6 	<3.0 	-11.20 	-135.0 -133.0 -133.0	-17.55 -17.67 -17.54	 	2.763 	.090	.052	.010
Rhoads Fork	279 12-05-86 04-14-87 06-12-87 07-06-87 08-11-87 09-05-91 08-07-95 08-28-96 09-09-97		 <3.0	 -10.10	126.5 -127.5 -128.0 -127.5 -129.0125.0 -127.0 -128.5	 -16.95 -16.95 -17.05 -17.05 -17.00 -16.89 -16.79 -16.75		 1.694	.082	 .050	 .020
Barrel Spring	07-25-95 09-13-96 09-08-97	32 	12 	-12.10 	-115.0 -112.0 -113.8	-14.67 -14.44 -14.69	 	1.770 	.119	.290	.010
Water Draw Spring	09-14-95 09-13-96 09-08-97	19 	<3.0 	-9.20 	-113.0 -113.0 -111.5	-14.34 -14.26 -14.22	 	.912	.064	.710 	.060
McKenna Spring	09-14-95 09-13-96 09-08-97	9 	7.0 	-11.20 	-103.0 -106.0 -101.8	-13.46 -13.53 -13.24	 	.429	.021	.720 	.070

¹One tritium unit equals 3.24 PC/L.

²Sample reported by Busby and others (1983, 1991). Sample date unknown but probably collected between 1978 and 1980.

RA-228 ARITH- METIC (DPM/L) (99915)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DISS AS NAT U (UG/L) (75986)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	TRITIUM TOTAL (TRITIUM UNITS ¹)
0.210	<3.0	2.3	<3.0	3.8	<4.0	4.5	<4.0	3.0	0.37	0.0	130	7.0	40
.110	4.7	3.5	8.6	6.5	10	5.5	6.3	3.3	1.0	.0	170 	9.0	52
.060	<3.0	.76	<3.0	1.1	<4.0	.91	<4.0 	.69	.77	.0	170 	9.0	52
.140									.67	.0	100	6.0	31
													² 62.2
.080											140	8.0	43
.510	13	6.7	17	8.9	6.5	7.8	5.0	5.9	9.3	.6	59 	4.0	18
.650	8.1	2.4	11	3.2	7.4	1.6	5.6	1.2	7.0	. 4	41	3.0	13
.310	<3.0	1.0	<3.0	1.4	4.9	1.2	<4.0	.90	1.5	.0	26	2.0	8.0

Table 12. Water-quality data for downgradient spring samples

[US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; CARB, carbonate; TOT, total; TIT, titration; IT, incremental titration; FET, fixed end point titration; TOT, total; LAB, laboratory; <, less than; --, no data available]

NAME OF SPRING OR STREAM	DATE	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)		ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	(MG/L)	CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	ALKA- LINITY WATER DISS TOT IT FIELD MG/L AS CACO3 (39086)
Higgins Gulch	² 09-26-94 10-10-97	7.1 7.2	657 735	8.1	20.0 22.5	13.0 11.5	660 	8.0	88	390 	333
Old Spearfish Hatchery	09-26-94 08-21-97	7.6 3.6	906 1,660	7.9 7.3	 28.0	10.2 15.0	660 	8.8	91 	550 	230
Crow Creek near Beulah, WY	08-19-92 08-30-96	25 41	1,350 1,370	7.8 7.8	29.0 25.0	14.0	673 681	12.5 11.1	138	810 810	 201
Cox Lake	09-06-91 09-27-94 08-22-97	4.6 4.1 4.3	1,200 1,110 1,320	7.7 7.8 7.2	26.5 22.0 28.0	15.0 11.0 20.9	670 662 	10.5 8.2	119 86 	710 710 830	 202
Elk Creek near Rapid City	09-05-96	11	1,150	7.9	37.0	21.0	680	6.7	85	580	211
Spring Creek near Hermosa	09-09-96	4.4	1,050	7.9	25.0	15.1	680	8.1	91	560	241
Battle Creek	09-06-96	7.0	341	7.9			677	8.6		160	154
Grace Coolidge Creek	09-10-96	13	295	8.4	30.0	13.0	675	9.0	8	140	135
Fall River at Hot Springs	³ 09-04-59 06-09-60 06-14-61 09-11-96 ⁴ 09-11-96	15 23 24 24	1,300 1,340 1,310 1,280	7.6 7.7 7.8 7.9 7.7	 20.0 20.0	 25.3 25.3	 683 	 8.5	 116 	560 580 590 530	 198 1
Cascade Spring	11-01-57 07-19-73 10-12-94 10-19-95 09-12-96	 18 21	2,700 2,500 2,380 2,720 2,680	7.0 7.4 6.9 7.1 7.0	 17.0 10.0 22.0	22.0 20.0 20.0 20.2 20.5	 678	 5.7	 72	1,800 1,700 	
Cool Spring	09-12-96		1,830	7.0	19.0	18.0	679	5.7	68	1,000	200

¹One tritium unit equals 3.24 PC/L.

²Percent difference between anions and cations (in milliequivalents per liter) exceeds 5 percent; data should be used with caution.

³Percent difference between anions and cations (in milliequivalents per liter) exceeds 10 percent; data should be used with extreme caution.

⁴Field blank collected for quality assurance.

ALKA- LINITY UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA- LINITY WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	HCO3	ALKA- LINITY UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	CO3	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
302			406		0	100	34	6.7	4	.1	2.2	110	12
233			281		0	160	36 	3.3	1	.1	1.2	340	2.3
192						260	39	4.4	1	.1	1.7	580	10
142			245		0	260	38	4.8	1	.1	2.1	600	2.5
200						230	34	2.8	1	. 0	1.4		
206			247		0	230	34	2.5	1	.0	1.4	520	.70
182						270	35	2.7	1	.0	1.4	570	.67
208			257		0	140	56	15	5	.3	4.6	420	15
201			294		0	160	39	12	4	.2	5.7	320	14
154			187		0	43	12	7.1	9	.2	2.9	19	5.4
137			160		2	38	9.9	7.0	10	.3	2.5	11	5.3
		530		0		160	38	74	22	1	8.1	380	92
		240		0		160	45	72	21	1	8.0	400	94
		220		0		180	33	64	19	1	8.1	390	85
158			242		0	150	37	65	21	1	7.4	350	84
1.2		1			0	.17	.020	<.20			<.10	<.10	<.10
	193	240		0		570	92	54	6	.6	6.2	1,500	62
	200	240		0		540	83	27	3	. 3	5.2	1,400	31
206			244		0	290	67	32	6	. 4	4.4	830	38

Table 12. Water-quality data for downgradient spring samples—Continued

[US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; CARB, carbonate; TOT, total; TIT, titration; IT, incremental titration; FET, fixed end point titration; TOT, total; LAB, laboratory; <, less than; --, no data available]

NAME OF SPRING OR STREAM	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG C DIS- SOLVED (MG/L) (70300)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	ORGANIC DISS (MG/L AS N)	DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	DIS- SOLVED (MG/L AS P)
Higgins Gulch	09-26-94 10-10-97	0.20	13	478 							
Old Spearfish Hatchery	09-26-94 08-21-97	.20	10	691 							
Crow Creek near Beulah, WY	08-19-92 08-30-96	.30	11 13	1,020 1,040	1,090	0.020		<0.010	0.230		
Cox Lake	09-06-91 09-27-94 08-22-97	.30 .30 .32	12 11 15	 921 1,010	920 	<.010 	<0.20 	<.010 	.150 	 	<0.010
Elk Creek near Rapid City	09-05-96	.20	8.2	792	816	.070	.30	.020	.800	3.5	<.010
Spring Creek near Hermosa	09-09-96	.30	12	711	696	.030	.20	.010	.480	2.1	.020
Battle Creek	09-06-96	.30	15	197							
Grace Coolidge Creek	09-10-96	.30	15	170							
Fall River at Hot Springs	³ 09-04-59 06-09-60 06-14-61 09-11-96 ⁴ 09-11-96	.70 .60 .70 .70 <.10	23 23 21 21 <.10	1,040 923 894 834	947 1,010 969 	 	 	 	 	1.0 .50 1.5 	
Cascade Spring	11-01-57 07-19-73 10-12-94 10-19-95 09-12-96	.90 1.6 	22 15 	2,460 2,270 	2,530	 	 	 	 	 	
Cool Spring	09-12-96	.90	16	1,400							

¹One tritium unit equals 3.24 PC/L.

²Percent difference between anions and cations (in milliequivalents per liter) exceeds 5 percent; data should be used with caution.

³Percent difference between anions and cations (in milliequivalents per liter) exceeds 10 percent; data should be used with extreme caution.

⁴Field blank collected for quality assurance.

PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)
<0.010	2	1	34		60	<10	<1.0		<1.0		28	<1.0	
<.010	<1	<1	18		30	<10	<1.0		<1.0		5.0	<1.0	
<.010		4	56	<0.50	73	<1.0	5.0	<3.0	<10		7.0	<10	21
<.010		<1	52	<.50	54	<1.0	<5.0	<3.0	<10		15	30	32
		15									6.0		
		7									7.0		
					210					10			
					190					10			
					150					0			
		4									<3.0		
		<1									13		
					190								0
										<10			60
		2									<3.0		

Table 12. Water-quality data for downgradient spring samples—Continued

[US/CM, microsiemens per centimeter; DEG C, degrees Celsius; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; PCI/L, picocuries per liter; DPM/L, decays per minute per liter; INST, instantaneous; UNFLTRD, unfiltered; FLTRD, filtered; DISS, dissolved; CARB, carbonate; TOT, total; TIT, titration; IT, incremental titration; FET, fixed end point titration; TOT, total; LAB, laboratory; <, less than; --, no data available]

NAME OF SPRING OR STREAM	DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
Higgins Gulch	09-26-94 10-10-97										
Old Spearfish Hatchery	09-26-94 08-21-97										
Crow Creek near Beulah, WY	08-19-92 08-30-96		11 	<0.1			2				7.0
Cox Lake	09-06-91 09-27-94 08-22-97	 	<1.0 	<.1 	 	 	2 	 	 	 	7.0
Elk Creek near Rapid City	09-05-96		21	<.1	10	<10		<1.0	2,400	<6	<3.0
Spring Creek near Hermosa	09-09-96		21	<.1	<10	<10		2.0	1,400	<6	<3.0
Battle Creek	09-06-96		8.0				1				
Grace Coolidge Creek	09-10-96		2.0				<1				
Fall River at Hot Springs	³ 09-04-59 06-09-60 06-14-61 09-11-96 ⁴ 09-11-96	 0 	 2.0 1.0	 	 	 	 3 <1	 	 	 	
Cascade Spring	11-01-57 07-19-73 10-12-94 10-19-95 09-12-96	0 <10 	 	 	 	 	 	 	6,200 	 	
Cool Spring	09-12-96		1.0				3				

¹One tritium unit equals 3.24 PC/L.

²Percent difference between anions and cations (in milliequivalents per liter) exceeds 5 percent; data should be used with caution.

³Percent difference between anions and cations (in milliequivalents per liter) exceeds 10 percent; data should be used with extreme caution.

⁴Field blank collected for quality assurance.

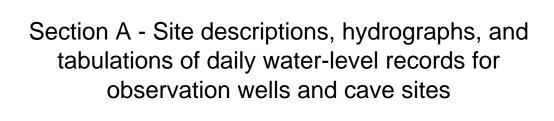
RATIO PER MIL	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	RATIO PER MIL	RATIO PER MIL	-34/-32 WATER FLTRD PER MIL	ACTIV- ITY RATIO	RA-228/ RA-226 1 SIGMA (99912)	ATION (DPM/L)		METIC (DPM/L)	NATURAL DIS- SOLVED (UG/L AS U)	DISS,	TRITIUM TOTAL (PCI/L)	WATER, WHOLE, TOTAL (PCI/L)	TRITIUM TOTAL (TRI- TIUM UNITS ¹)
-11.40	-126.0 -121.6	-16.47 -16.25	10.30		1.277	0.060	0.280	0.010	0.358			100 90	6.0 5.1	31 28
-9.60 	-128.0	-16.71 	12.60		.869	.042	.150	.020	.130			83 43	5.0 2.6	26 13
 -8.70	 -128.0	 -16.67		 12.50						2.8	0.2	 61	4.0	 19
 -8.70	 -129.0	 -16.95	 12.70		.225	.013	.280	.010	.060			 67 	4.0	 21
-9.50	-106.0	-13.79		7.70						3.8	.1	96	6.0	30
-13.59	-96.8	-12.59		5.80						3.5	.1	59	4.0	18
-11.13	-85.9	-11.62		8.10						1.4	.1	65	4.0	20
-10.20	-88.5	-11.68		10.10						1.3	.0	55	3.0	17
 -7.67 	 -119.0 	 -15.43 	 	 12.40 	 	 	 	 	 	3.4 <.01	.2	8.0 	1.0 	2.5
										5.7				
					.284	.017	1.610	.170	.460					
												7.0	1.0	2.2
	-119.0	-15.32										7.0	1.0	2.2
-7.01	-116.0	-15.23		12.50						3.4	.1	8.0	1.0	2.5

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SITE NUMBER FROM LOCATION MAP.—1.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—7N3E22DAAD (formerly 23CBCB).

SITE ID (STATION NUMBER).—443306103434001.

OTHER IDENTIFIER.—LA-90B and Saint Onge.

LOCATION.—Lat 44°33′10.8″, long 103°43′47.2″, in SE¹/4NE¹/4NE¹/4SE¹/4 sec. 22, T. 7 N., R. 3 E., Hydrologic Unit 10120203, 0.5 mi northwest of St. Onge. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Inyan Kara.

WELL CHARACTERISTICS.—Drilled observation well, 390 ft deep with 290 ft of 5-in. steel casing. Below 290 ft, 3-in. PVC casing, screened from 290 to 310 ft and from 370 to 390 ft.

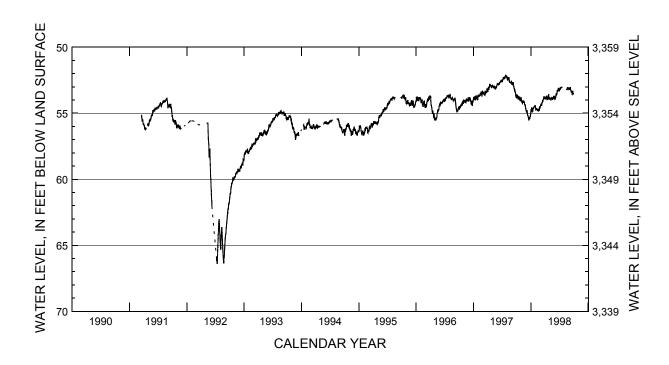
INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,409.0 ft above sea level. Measuring point: Top of steel casing, 1.0 ft above land-surface datum.

REMARKS.—Records fair.

PERIOD OF RECORD.—March 1991 to September 1998.

EXTREMES.—Highest daily water level, 52.13 ft below land-surface datum, July 25, 1997; lowest daily water level, 66.40 ft below land-surface datum, July 13, 1992.



SITE NUMBER 1—Continued

		WATER LE	VEL, IN F	EET BELOW		FACE DATUM			ER 1994	TO SEPTEM	BER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	56.45 56.46 56.67	55.91 56.16 56.23 56.12	56.08 56.06 56.11 56.33	56.32 56.37 56.31 56.21	56.50 56.56 56.67 56.57	56.33 56.27 56.32	55.81 55.83 55.91 55.80	55.76 55.62 55.71 55.73	54.93 54.92 54.90 54.88	54.45 54.32 54.30 54.32	53.90 53.82 53.90 53.87	
5 6 7 8	56.42 56.19 56.34 56.39	56.20 56.26 56.26 56.39	56.29 56.22 56.26 56.24	55.94 56.12 56.02 56.09	56.50 56.45 56.50 56.37	56.34	55.70 55.64 55.66 55.67	55.68 55.60 55.59 55.33	54.79 54.70 54.88 54.89	54.36 54.37 54.30 54.31	53.82 53.77 53.77 53.82	
9 10	56.31 56.21	56.33 56.29	56.19 56.38	56.04 55.95	56.12 56.24		55.71 55.81	55.28 55.36	54.81 54.82	54.25 54.23	53.84 53.80	
11 12 13 14 15	56.14 56.19 56.18 55.91 55.95	56.33 56.26 56.47 56.70 56.64	56.35 56.51 56.50 56.51 56.45	55.92 56.00 56.09 56.16 56.22	56.31 56.31 56.27 56.04 56.08	56.00 56.12	55.71 55.72 55.66 55.59 55.71	55.23 55.14 55.20 55.34 55.18	54.77 54.72 54.65 54.61 54.58	54.18 54.14 54.17 54.21 54.18	53.79 53.86 53.88 53.91 53.83	
16 17 18 19 20	56.00 55.98 55.92 55.94 55.88	56.43 56.38 56.61 56.52 56.38	56.44 56.61 56.53 56.63 56.64	56.32 56.41 56.45 56.48 56.58	56.14 56.07 56.15 56.09 56.17	56.10 55.96 55.92	55.80 55.74 55.75 55.68 55.63	55.21 55.19 55.17 55.24 55.17	54.58 54.66 54.73 54.72 54.74	54.20 54.16 54.06 54.10 54.03	53.83 	
21 22 23 24	55.79 55.90 55.94 56.02	56.58 56.65 56.49	56.64 56.69 56.55 56.46	56.55 56.53 56.47 56.47	56.02 56.06 56.19 56.13	55.81 55.83 55.74	55.78 55.79 55.80 55.73	55.10 55.23 55.17 55.21	54.73 54.64 54.66 54.65	53.95 53.96	 	
25 26 27 28 29	55.96 55.82 55.76 55.83 56.01	56.39 56.21 56.26 56.23 56.27	56.39 56.32 56.33	56.40 56.32 56.44 56.65 56.69	56.16 56.30 56.49 56.51	56.02 56.07 56.01	55.75 55.80 55.75 55.77 55.82	55.14 55.03 55.05 55.08 55.04	54.61 54.57 54.54 54.61 54.61	53.92 54.00 53.90	 	
30 31 LOW	56.07 56.13 56.67	56.15 56.70	56.38 56.44 56.69	56.60 56.53 56.69	 56.67	55.95 55.88 56.45	55.78 55.91	54.99 54.93 55.76	54.57 54.93	53.99 54.01 54.45	53.91	
	50.07	50.70	50.05	50.05	50.07	50.15	33.71	55.70	01.00	51.15	33.71	
дом		WATER LE	VEL, IN F	EET BELOW	LAND-SUR	FACE DATUM	, WATER	YEAR OCTOB	ER 1995	TO SEPTEM	BER 1996	
					DAILY (FACE DATUM	N AT 1200) HOURS				-
DAY 1 2 3 4 5	OCT 53.80 53.90 53.76 53.72 53.79	NOV 54.26 54.29 54.26 54.18 54.07	DEC 54.12 54.23	JAN 54.13 54.09 53.76 54.07 54.03		MAR 54.34 54.36 54.34 54.34 54.34			JUN 54.34 54.39 54.36 54.18 54.17	JUL 54.09	AUG 53.68 53.61 53.59 53.63 53.62	SEP 53.95 53.96 53.92 53.86 53.81
DAY 1 2 3 4	53.80 53.90 53.76 53.72	NOV 54.26 54.29 54.26 54.18	DEC 54.12 54.23 54.33 54.01	JAN 54.13 54.09 53.76 54.07	DAILY (FEB 54.18 54.18 54.23 54.12	MAR 54.34 54.36 54.34 54.34 54.34 54.34 54.34	APR 53.70 53.78 53.78 54.09	MAY 55.38 55.38 55.40 55.51	JUN 54.34 54.39 54.36 54.18	JUL 54.09 54.07 54.00 53.97	AUG 53.68 53.61 53.59 53.63	53.95 53.96 53.92 53.86
DAY 1 2 3 4 5 6 7 8 9	53.80 53.90 53.76 53.72 53.79 53.70 53.70 53.70 53.73	NOV 54.26 54.29 54.26 54.18 54.07 54.12 54.28 54.10	DEC 54.12 54.23 54.33 54.01 54.29 54.28 54.14 54.34	JAN 54.13 54.09 53.76 54.07 54.03 54.03 53.89 53.82 53.82	FEB 54.18 54.18 54.12 54.12 54.13 54.04 53.98 54.06 54.03	MAR 54.34 54.36 54.34 54.34 54.34 54.31 54.41 54.54 54.39 54.23 54.17 54.11 54.04 54.03 54.04	APR 53.70 53.78 53.78 54.09 54.30 54.40 54.37 54.48 54.54	MAY 55.38 55.40 55.51 55.55 55.49 55.38 55.39	JUN 54.34 54.39 54.36 54.17 54.23 54.24 54.17	JUL 54.09 54.07 54.00 53.97 53.92 53.90 53.91 53.90 53.80	AUG 53.68 53.61 53.59 53.63 53.62 53.73 53.84 53.87	53.95 53.96 53.92 53.86 53.81 53.97 54.00 54.10
DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14	53.80 53.90 53.76 53.72 53.79 53.70 53.66 53.70 53.67 53.67 53.65 53.59 53.80 53.77	NOV 54.26 54.29 54.26 54.18 54.07 54.12 54.28 54.10 54.00 54.25	54.12 54.23 54.33 54.01 54.29 54.28 54.14 54.34 54.34 54.34 54.34	JAN 54.13 54.09 53.76 54.07 54.03 54.03 53.89 53.82 53.81 53.83 53.82 53.82 53.82 53.82	FEB 54.18 54.18 54.12 54.13 54.04 53.98 54.06 54.03 54.38 54.45 54.39 54.33 54.44	MAR 54.34 54.36 54.34 54.34 54.34 54.31 54.41 54.54 54.39 54.23 54.17 54.11 54.04 54.03 54.04 53.90 53.96	APR 53.70 53.78 54.09 54.30 54.40 54.37 54.48 54.55 54.76 54.76 55.03	MAY 55.38 55.38 55.40 55.51 55.55 55.49 55.38 55.49 55.39 55.45 55.42 55.37 55.29 55.17 55.01	JUN 54.34 54.39 54.36 54.18 54.17 54.23 54.17 54.27 54.17 54.22 54.15 54.26 54.20 54.16	JUL 54.09 54.07 54.00 53.97 53.92 53.96 53.90 53.91 53.90 53.80 53.82 53.82 53.82 53.82	AUG 53.68 53.61 53.59 53.63 53.62 53.73 53.84 53.86 53.90 53.91 53.99	53.95 53.96 53.92 53.86 53.81 53.97 54.00 54.23 54.39 54.52 54.56 54.56 54.70
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	53.80 53.90 53.76 53.72 53.79 53.66 53.70 53.66 53.59 53.80 53.77 53.61 53.75 53.66 53.75	NOV 54.26 54.29 54.26 54.18 54.07 54.12 54.28 54.10 54.00 54.25 54.15 54.31 54.31 54.31	54.12 54.23 54.33 54.01 54.29 54.28 54.14 54.34 54.34 54.34 54.35 54.19 54.52 54.19 54.54	JAN 54.13 54.09 53.76 54.07 54.03 54.03 53.82 53.87 53.81 53.82 53.80 54.05 53.90 53.84 54.05 54.07 53.95	FEB 54.18 54.18 54.23 54.12 54.13 54.04 53.98 54.06 54.03 54.33 54.40 54.52 54.27 54.34 54.17	MAR 54.34 54.36 54.34 54.34 54.34 54.34 54.31 54.11 54.01 54.03 54.01 53.90 53.96 53.96 53.91	AT 1200 APR 53.70 53.78 54.09 54.30 54.40 54.37 54.48 54.54 54.55 54.76 54.76 54.79 54.86 55.03 55.05	MAY 55.38 55.38 55.40 55.51 55.55 55.49 55.38 55.49 55.39 55.45 55.42 55.37 55.29 55.17 55.01 55.00 54.90 54.86 54.79 54.82	JUN 54.34 54.39 54.36 54.17 54.23 54.24 54.17 54.22 54.15 54.20 54.16 54.20 54.16 54.21	JUL 54.09 54.07 54.00 53.97 53.92 53.96 53.90 53.81 53.82 53.82 53.81 53.77	53.68 53.61 53.59 53.63 53.62 53.73 53.84 53.86 53.86 53.90 53.91 53.99 53.94 53.85 53.85	53.95 53.96 53.92 53.86 53.81 53.97 54.00 54.23 54.39 54.52 54.56 54.62 54.70 54.81 54.83 54.89 54.89
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	53.80 53.90 53.76 53.72 53.79 53.70 53.66 53.70 53.67 53.65 53.80 53.77 53.75 53.61 53.75 53.61 53.75 53.61 53.75	NOV 54.26 54.29 54.26 54.18 54.07 54.12 54.28 54.10 54.00 54.25 54.15 54.19 54.30 54.25 54.31 54.21 54.31 54.21	54.12 54.23 54.33 54.01 54.29 54.28 54.44 54.34 54.34 54.32 54.19 54.22 54.18 54.52 54.19 54.23 54.30	JAN 54.13 54.09 53.76 54.07 54.03 54.03 54.03 53.89 53.82 53.80 54.05 53.90 53.84 54.05 53.91 53.79 53.94	FEB 54.18 54.18 54.23 54.12 54.13 54.04 53.98 54.06 54.03 54.33 54.45 54.37 54.10 54.20 54.22 54.25 54.25 54.25 54.25	MAR 54.34 54.36 54.34 54.34 54.34 54.34 54.37 54.11 54.04 54.03 54.04 53.90 53.96 53.93 54.04 53.90 53.96 53.93 54.77 53.97 53.97 53.97 53.97	APR 53.70 53.78 54.09 54.30 54.40 54.37 54.48 54.55 54.76 54.76 55.03 55.05 54.94 55.03 55.05	MAY 55.38 55.40 55.51 55.55 55.49 55.38 55.39 55.45 55.29 55.17 55.01 55.00 54.80 54.82 54.82 54.72 54.73 54.73	JUN 54.34 54.39 54.36 54.17 54.23 54.24 54.17 54.22 54.15 54.20 54.16 54.21 54.19 54.14 54.03	JUL 54.09 54.07 54.00 53.97 53.92 53.90 53.91 53.90 53.81 53.77 53.69 53.65 53.72 53.71 53.71 53.71 53.71 53.73 53.71	53.68 53.61 53.59 53.63 53.62 53.84 53.86 53.86 53.90 53.91 53.99 53.85 53.84 53.84 53.90 53.93 53.94	53.95 53.96 53.92 53.86 53.81 53.97 54.00 54.10 54.23 54.39 54.52 54.62 54.70 54.81 54.81 54.83 54.89 54.85 54.80

SITE NUMBER 1—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM			ER 1996 T	O SEPTEMB	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	54.49 54.72 54.56 54.50 54.45	54.15 54.15 54.04 54.05 54.04	53.87 53.95 54.03 54.02 53.79	53.82 53.82 53.77 53.85 53.95	53.66 53.69 53.65 53.75 53.70	53.46 53.42 53.43 53.57 53.55	53.27 53.40 53.15 53.08 53.06	52.85 52.95 53.00 52.92 53.04	52.76 52.79 52.83 52.78 52.71	52.44 52.61 52.61 52.56 52.53	52.21 52.29 52.39 52.46 52.46	52.80 52.83 52.74 52.69 52.68
6 7 8 9 10	54.61 54.57 54.51 54.57 54.45	54.05 54.02 54.13 54.15 54.13	53.83 53.99 53.99 53.87 53.86	53.97 53.79 53.77 53.82 53.91	53.64 53.67 53.64 53.62 53.67	53.53 53.46 53.48 53.60 53.52	53.11 53.17 53.23 53.10 53.09	52.94 52.96 53.09 53.04 52.99	52.77 52.76 52.78 52.85 52.84	52.44 52.43 52.43 52.34 52.28	52.47 52.40 52.26 52.40 52.46	52.67 52.72 52.82 52.80 52.72
11 12 13 14 15	54.39 54.41 54.45 54.43 54.40	54.22 54.18 54.19 53.96 53.95	53.89 53.97 54.05 54.12 54.15	53.96 54.02 53.91 53.71 53.70	53.63 53.49 53.55 53.59 53.56	53.51 53.56 53.63 53.65 53.54	53.07 52.98 52.86 52.78 52.92	53.11 53.01 52.92 53.00 52.99	52.76 52.78 52.79 52.72 52.68	52.33 52.31 52.33 52.35 52.32	52.39 52.42 52.37 52.26 52.29	52.66 52.74 52.92 53.00 53.04
16 17 18 19 20	54.42 54.45 54.29 54.18 54.28	54.08 54.07 54.05 53.99 53.94	54.15 54.31 54.32 54.19 54.04	53.96 53.94 53.84 53.85 53.76	53.55 53.40 53.49 53.44 53.48	53.30 53.42 53.55 53.41 53.32	52.91 52.85 52.86 52.85 52.92	52.99 52.98 53.15 53.17 53.17	52.67 52.70 52.68 52.63 52.63	52.28 52.27 52.30 52.34 52.31	52.52 52.59 52.57 52.60 52.66	53.09 53.12 53.10 53.31 53.36
21 22 23 24 25	54.40 54.29 54.25 54.10 54.11	54.04 53.95 54.07 54.05 54.06	54.21 54.30 54.40 54.41 54.28	53.67 53.87 53.77 53.91 53.95	53.55 53.58 53.70 53.74 53.45	53.43 53.43 53.36 53.43 53.42	52.94 53.01 52.99 53.02 53.04	53.10 53.11 53.10 53.04 53.01	52.60 52.57 52.61 52.62 52.65	52.25 52.20 52.15 52.14 52.13	52.66 52.68 52.69 52.65 52.72	53.32 53.29 53.39 53.43 53.48
26 27 28 29 30 31	54.15 54.29 54.12 53.98 54.22 54.18	54.10 53.98 53.80 53.86 53.93	54.17 54.05 54.09 54.10 54.03 53.89	53.81 54.01 53.82 53.86 53.63 53.60	53.48 53.28 53.39 	53.34 53.12 53.30 53.39 53.32 53.18	52.91 52.91	53.01 53.04 53.00 52.90 52.90 52.83	52.56 52.50 52.54 52.54 52.55	52.15 52.22 52.27 52.26 52.20 52.19	52.67 52.66 52.63 52.60 52.65 52.64	53.54 53.67 53.76 53.78 53.80
LOW	54.72	54.22	54.41	54.02	53.75	53.65	53.40	53.17	52.85	52.61	52.72	53.80
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM			ER 1997 T	O SEPTEMB	BER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW					ER 1997 T JUN	O SEPTEMB	BER 1998 AUG	SEP
DAY 1 2 3 4 5					DAILY OF	SERVATION	APR	HOURS				SEP 53.19 53.06 53.09 53.12 53.16
1 2 3 4	OCT 53.73 53.58 53.64 53.73	NOV 54.00 54.11 54.06 54.07	DEC 54.71 54.84 54.78 54.89	JAN 54.86 54.69 54.92 54.72	DAILY OF FEB 54.62 54.75 54.73 54.68	MAR 54.57 54.51 54.45 54.39	APR 53.86 53.89 53.95 53.83	MAY 53.87 53.92 53.83 53.89	JUN 53.76 53.91 53.90 53.85	JUL 53.24 53.20 53.22 53.16	AUG 	53.19 53.06 53.09 53.12
1 2 3 4 5 6 7 8 9	OCT 53.73 53.58 53.64 53.73 53.82 53.86 53.61 53.67 53.77	NOV 54.00 54.11 54.06 54.07 54.20 54.12 54.04 54.23 54.31	DEC 54.71 54.84 54.78 54.89 54.92 54.86 54.80 54.94 55.10	JAN 54.86 54.69 54.92 54.72 54.69 54.69 54.60 54.72	DAILY OF FEB 54.62 54.75 54.73 54.68 54.71 54.69 54.66 54.74 54.75	MAR 54.57 54.51 54.45 54.39 54.40 54.34 54.36 54.37 54.44 54.39	APR 53.86 53.89 53.95 53.83 53.79 53.80 53.86 53.92 53.83 53.86	MAY 53.87 53.92 53.83 53.89 53.83 53.90 53.93 53.98 54.01	JUN 53.76 53.91 53.90 53.85 53.88 53.89 53.74 53.70 53.56	JUL 53.24 53.20 53.22 53.16 53.13 53.16 53.18 53.15 53.12 53.08	AUG	53.19 53.06 53.09 53.12 53.16 53.23 53.17 53.07 53.02
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 53.73 53.58 53.64 53.73 53.82 53.86 53.61 53.67 53.77 53.77 53.88 53.85 53.92 53.92	NOV 54.00 54.11 54.06 54.07 54.20 54.12 54.04 54.23 54.31 54.19 54.22 54.03 54.07 54.20	DEC 54.71 54.84 54.78 54.89 54.92 54.86 54.80 54.80 54.94 55.10 55.15 55.15 55.20	JAN 54.86 54.69 54.72 54.69 54.69 54.60 54.72 54.81 54.85 54.87 54.87	DAILY OF FEB 54.62 54.75 54.73 54.68 54.71 54.69 54.62 54.66 54.74 54.75 54.71 54.72 54.72	MAR 54.57 54.51 54.45 54.39 54.40 54.36 54.37 54.44 54.39 54.19 54.19 54.19	TAT 1200 APR 53.86 53.89 53.95 53.83 53.79 53.80 53.86 53.92 53.83 53.86 53.92 53.83	MAY 53.87 53.92 53.83 53.89 53.90 53.93 53.99 53.93 53.99 53.83 53.80 53.80 53.80	JUN 53.76 53.91 53.90 53.85 53.88 53.89 53.86 53.74 53.70 53.56 53.55 53.55 53.61	JUL 53.24 53.20 53.22 53.16 53.13 53.16 53.18 53.15 53.12 53.08	AUG	53.19 53.06 53.09 53.12 53.16 53.23 53.17 53.07 53.02 53.05 53.21 53.25 53.29 53.39
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 53.73 53.58 53.64 53.73 53.82 53.86 53.61 53.67 53.77 53.68 53.92 53.92 53.96 53.84 53.74 53.74 53.74	NOV 54.00 54.11 54.06 54.07 54.20 54.12 54.04 54.23 54.31 54.19 54.22 54.03 54.18 54.12 54.10 54.15 54.11	DEC 54.71 54.84 54.78 54.89 54.92 54.86 54.80 54.80 55.15 55.15 55.15 55.20 55.23 55.34 55.31 55.36 55.55	JAN 54.86 54.69 54.92 54.72 54.69 54.68 54.56 54.72 54.81 54.85 54.65 54.65 54.65	DAILY OF FEB 54.62 54.75 54.73 54.68 54.71 54.69 54.62 54.66 54.74 54.75 54.71 54.75 54.73 54.80 54.82 54.84 54.83	SERVATION MAR 54.57 54.51 54.45 54.39 54.40 54.36 54.37 54.44 54.39 54.19 54.19 54.18 54.09 54.18 54.09 54.10 54.01	TAT 1200 APR 53.86 53.89 53.95 53.83 53.79 53.80 53.86 53.92 53.83 53.86 53.74 53.87 53.87 53.89 53.92 53.89 53.92	MAY 53.87 53.92 53.83 53.89 53.89 53.93 53.98 54.01 53.99 53.83 53.80 53.80 53.84 53.92 53.86 53.93	JUN 53.76 53.91 53.90 53.85 53.88 53.89 53.74 53.70 53.56 53.55 53.55 53.55 53.55 53.61 53.58	JUL 53.24 53.20 53.22 53.16 53.13 53.16 53.18 53.15 53.12 53.08 53.02 53.07 53.04	AUG	53.19 53.06 53.09 53.12 53.16 53.23 53.17 53.02 53.05 53.21 53.25 53.29 53.39 53.42 53.35 53.30 53.30
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21 22 23 24	OCT 53.73 53.58 53.64 53.73 53.82 53.86 53.61 53.67 53.77 53.68 53.92 53.92 53.96 53.84 53.74 53.74 53.90 53.99	NOV 54.00 54.11 54.06 54.07 54.20 54.12 54.04 54.23 54.31 54.19 54.22 54.03 54.07 54.20 54.18 54.12 54.10 54.15 54.14 54.17	DEC 54.71 54.84 54.89 54.92 54.86 54.80 54.94 55.10 55.15 55.15 55.15 55.20 55.23 55.34 55.31 55.36 55.55 55.41	JAN 54.86 54.69 54.92 54.72 54.69 54.68 54.56 54.72 54.81 54.85 54.87 54.85 54.65 54.65 54.65 54.65 54.65 54.65 54.65 54.65 54.65 54.65 54.65	DAILY OF FEB 54.62 54.75 54.73 54.68 54.71 54.69 54.66 54.74 54.75 54.71 54.75 54.73 54.80 54.82 54.68	SERVATION MAR 54.57 54.51 54.45 54.39 54.40 54.36 54.37 54.44 54.39 54.19 54.19 54.18 54.20 54.18 54.20 54.18 54.20 54.18 54.20 54.18 54.39 54.39 54.79 54.79 54.79 54.79 54.79 54.79 54.79 54.79 54.79 54.79 54.79 54.79	APR 53.86 53.89 53.89 53.87 53.80 53.86 53.92 53.83 53.86 53.92 53.87 53.86 53.89 53.92 53.89 53.86 53.86 53.89 53.92 53.80 53.86 53.73 53.67 53.85 53.85 53.85 53.85	MAY 53.87 53.92 53.83 53.89 53.83 53.98 54.01 53.99 53.83 53.80 53.80 53.84 53.92 53.86 53.89 53.89 53.89	JUN 53.76 53.91 53.90 53.85 53.88 53.89 53.86 53.74 53.70 53.56 53.55 53.59 53.55 53.61 53.58 53.28 53.23 53.27 53.32 53.32 53.21 53.15	JUL 53.24 53.20 53.22 53.16 53.13 53.16 53.18 53.15 53.12 53.08	AUG 53.22 53.07 53.06 53.07 53.11	53.19 53.06 53.09 53.12 53.16 53.23 53.17 53.07 53.05 53.21 53.25 53.35 53.39 53.35 53.35 53.35 53.35 53.35 53.35

SITE NUMBER FROM LOCATION MAP.—2.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—7N2E10BADC.

SITE ID (STATION NUMBER).—443515103513901.

OTHER IDENTIFIERS.—LA-62A and Redwater.

LOCATION.—Lat 44°35′13.1″, long 103°51′43.4″, in SW¹/4SE¹/4NE¹/4NW¹/4 sec. 10, T. 7 N., R. 2 E., Hydrologic Unit 10120203, 6 mi north of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 1,306 ft deep with 1,266 ft of 2-in. steel casing, perforated from 1,266 ft of 1,266 ft; open hole from 1,266 to 1,306 ft.

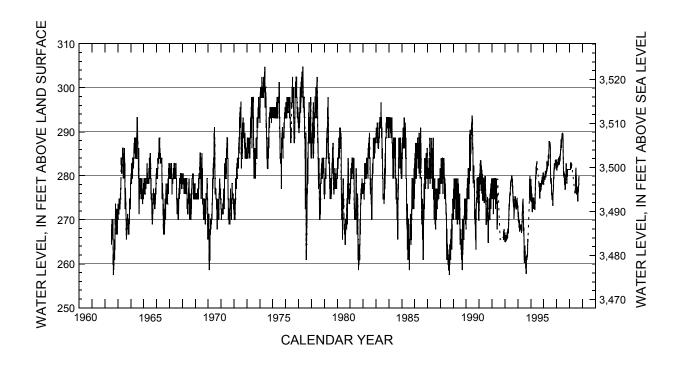
INSTRUMENTATION.—Electronic data logger with pressure transducer. Prior to November 1990, circular-chart pressure recorder.

DATUM.—Elevation of land-surface datum is 3,218.1 ft above sea level. Measuring point: Base of gage, 2.5 ft above land-surface datum.

REMARKS.—Records fair. Water level affected by pumping of nearby wells. Note: Data not corrected for anti-freeze density difference.

PERIOD OF RECORD.—June 1962 to September 1998.

EXTREMES.—Highest daily water level, 304.72 ft above land-surface datum, May 24, 1974, Apr. 30, 1977, and May 3, 1977; lowest daily water level, 256.27 ft above land-surface datum, Aug. 30, 1962, Sept. 3, 1962, July 30, 1985, and Sept. 20, 1988.



WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY OBSERVATION AT 1200 HOURS

					DAILY C	BSERVATIO	N AT 1200	HOURS				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+261.46		+275.72	+274.68	+275.88	+273.30	+275.19	+273.46	+281.25			+277.79
2	+261.65		+275.03	+277.61	+274.33	+273.99	+274.50	+273.99	+281.07			+277.79
3 4	+261.99 +262.50		+275.03 +278.65	+274.68 +274.68	+274.33 +273.99	+274.15 +274.68	+273.64 +273.64	+273.99 +274.15	+281.25 +281.60			+277.96 +277.79
5	+263.72		+279.34	+275.03	+274.84	+272.77	+275.03	+274.15	+282.11			+277.45
6	+263.38		+279.52	+279.18	+274.84	+273.30	+275.03	+273.64	+282.11			+276.23
7	+264.07		+274.33	+275.37	+273.99	+273.64	+275.03	+274.68	+281.42			+275.53
8 9	+264.23 +265.11		+275.03 +275.03	+274.50 +275.53	+273.30 +273.99	+273.99 +275.03	+273.46 +273.30	+273.80 +274.33	+280.72 +280.38			+275.53 +275.19
10	+265.61		+274.84	+275.88	+272.07	+274.50	+272.42	+275.72	+281.07			+275.53
11	+265.80		+280.03	+275.19	+272.60	+274.84	+272.77	+276.23	+281.95			+275.72
12	+264.92		+275.03	+275.72	+272.26	+274.33	+273.99	+276.92	+282.29			+275.37
13 14			+274.84 +276.92	+275.37 +274.15	+274.68 +275.53	+274.50 +275.03	+274.15 +273.46	+276.06 +277.10	+282.45 +282.64			+274.84
15			+274.84	+275.03	+271.73	+274.33	+273.80	+277.96	+282.45			+275.72
16			+275.19	+277.61	+272.26	+273.46	+273.30	+278.30	+282.45			+275.03
17			+275.37	+278.14	+272.95	+272.77	+272.77	+278.30	+282.45		+278.65	+275.03
18 19			+275.88 +274.68	+274.84 +274.68	+272.42 +273.30	+274.84 +274.50	+272.60 +273.46	+278.99 +278.99	+282.64 +282.80		+278.49 +278.30	+275.37 +274.84
20			+275.37	+273.99	+273.30	+275.03	+273.30	+279.52	+282.80		+278.49	+275.37
21			+275.19	+274.68	+274.15	+274.84	+272.77	+279.87	+282.64		+278.30	+275.72
22			+275.88	+274.84	+273.80	+274.33	+273.99	+279.18	+282.80		+278.14	+276.41
23 24			+276.06 +275.19	+275.37 +275.37	+273.99 +274.33	+275.03 +274.33	+273.46 +273.64	+280.03 +279.69	+282.80 +282.64		+278.14 +278.30	+276.92 +276.92
25			+276.23	+275.19	+274.33	+274.50	+273.30	+279.69	+282.99		+278.14	+277.45
26			+275.88	+275.72	+273.46	+272.95	+273.11	+280.03	+283.33		+277.96	+277.45
27			+275.72	+274.84	+272.42	+273.46	+273.99	+279.52	+283.33		+277.96	+277.96
28 29			+275.03 +274.68	+274.68 +274.84	+272.77	+273.64 +273.30	+273.11 +272.42	+280.38 +280.72	+282.80 +282.99		+277.96 +277.96	+277.79 +278.30
30		+275.53	+274.33	+275.53		+273.80	+272.26	+280.91	+283.15		+277.45	+278.14
31			+275.03	+275.19		+274.50		+280.91			+277.61	
LOW	+261.46	+275.53	+274.33	+273.99	+271.73	+272.77	+272.26	+273.46	+280.38		+277.45	+274.68
		WATED LEY	ZET. TN ET	TET ABOVE	T.AND_SIIDI	באכב האידווי	י סידירנע זי	VEND OCTO	2FD 1005	CEDTEMI	2FD 1996	
		WATER LE	VEL, IN FI	EET ABOVE			M, WATER I		BER 1995 1	TO SEPTEME	BER 1996	
DAY	OCT	WATER LE	VEL, IN FI	EET ABOVE JAN			N AT 1200		BER 1995 :	TO SEPTEME	BER 1996	SEP
		NOV	DEC	JAN	DAILY C	BSERVATIO	N AT 1200 APR	HOURS MAY	JUN	JUL	AUG	
DAY 1 2	OCT +276.34 +276.18				DAILY C	BSERVATIO	N AT 1200	HOURS				SEP +274.91 +274.56
1 2 3	+276.34 +276.18 +276.53	NOV +277.56 +277.91 +278.42	DEC +279.92 +278.37 +278.53	JAN +277.96 +278.49 +278.30	DAILY C FEB +279.99 +280.15	MAR +279.64 +279.80 +280.15	APR +281.14 +281.14 +280.95	HOURS MAY +283.33 +283.15 +282.64	JUN +286.21 +286.21 +286.21	JUL +287.07 +287.41 +287.25	AUG +279.22 +279.41 +279.41	+274.91 +274.56 +274.91
1 2 3 4	+276.34 +276.18 +276.53 +276.53	NOV +277.56 +277.91 +278.42 +278.76	DEC +279.92 +278.37 +278.53 +279.41	JAN +277.96 +278.49 +278.30	DAILY C FEB +279.99 +280.15 +279.64	MAR +279.64 +279.80 +280.15	APR +281.14 +281.14 +280.95 +280.95	HOURS MAY +283.33 +283.15 +282.64 +282.29	JUN +286.21 +286.21 +286.21 +286.91	JUL +287.07 +287.41 +287.25 +287.07	AUG +279.22 +279.41 +279.41 +279.06	+274.91 +274.56 +274.91 +275.26
1 2 3 4 5	+276.34 +276.18 +276.53 +276.53 +276.69	NOV +277.56 +277.91 +278.42 +278.76 +278.60	DEC +279.92 +278.37 +278.53 +279.41 +278.37	JAN +277.96 +278.49 +278.30	PEB +279.99 +280.15 +279.64 +280.15	MAR +279.64 +279.80 +280.15 +279.64	APR +281.14 +281.14 +280.95 +280.95 +281.49	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49	JUN +286.21 +286.21 +286.91 +287.07	JUL +287.07 +287.41 +287.25 +287.07 +287.07	AUG +279.22 +279.41 +279.41 +279.06 +279.06	+274.91 +274.56 +274.91 +275.26 +275.26
1 2 3 4 5	+276.34 +276.18 +276.53 +276.53 +276.69	NOV +277.56 +277.91 +278.42 +278.76 +278.60	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72	JAN +277.96 +278.49 +278.30 	PAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.49	MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.49	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03	JUL +287.07 +287.41 +287.25 +287.07 +287.07	AUG +279.22 +279.41 +279.41 +279.06 +279.06	+274.91 +274.56 +274.91 +275.26 +275.26
1 2 3 4 5	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.42 +278.37	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88	JAN +277.96 +278.49 +278.30 +279.52 +278.99	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80	APR +281.14 +281.14 +280.95 +280.95 +281.49	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.49 +283.15 +283.15	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.41	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72	AUG +279.22 +279.41 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91
1 2 3 4 5 6 7 8	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.42 +278.37 +279.06	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15	MAR +279.64 +279.80 -280.15 +279.64 +280.33 +279.80 +280.79	APR +281.14 +280.95 +280.95 +281.49 +281.49 +281.49 +281.83 +281.99 +281.83	MAY +283.33.15 +282.64 +282.29 +283.49 +283.49 +283.15 +283.15 +282.29	JUN +286.21 +286.21 +286.91 +287.07 +286.93 +2886.91 +287.41 +287.41	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.72	AUG +279.22 +279.41 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.84	+274.91 +274.96 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +274.91
1 2 3 4 5	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.03	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.72 +278.37 +279.06 +278.03	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.49 +281.83 +281.83 +282.52	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.49 +283.15 +283.15 +282.29 +282.29	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.41	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72	AUG +279.22 +279.41 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91
1 2 3 4 5 6 7 8 9 10	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.42 +278.37 +279.06 +278.03 e+278.00	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88 +279.76 +280.10 +279.06	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65	PAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30	MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +283.15 +282.29 +282.29 +282.80	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.41 +287.60 +287.60	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60	AUG +279.22 +279.41 +279.04 +279.06 +278.72 +278.88 +278.19 +277.49	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +274.91 +274.73
1 2 3 4 5 6 7 8 9	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.69 +277.03 +277.22 +277.03	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88 +279.76 +280.10 +279.06 +278.72	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.80 +280.15 +279.80	MAR +279.64 +279.80 -280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14 +280.79	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +283.15 +282.29 +282.29 +282.39 +283.33	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.41 +287.60 +287.60 +287.60	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.84 +277.49 +277.49	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +274.91 +275.07
1 2 3 4 5 6 7 8 9 10 11 12 13 14	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73 +277.73 +276.87 +277.22	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.88 84.279.06	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88 +279.76 +280.10 +279.06 +279.22 +279.22	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +279.34 +278.83	DAILY C FEB +279,99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14 +280.79 +280.26 +280.95	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49 +281.83	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.30 +283.33 +283.68 +284.53	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.60 +287.76 +287.76 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +282.18	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.84 +277.49 +277.49 +277.6.29 +276.29	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +274.91 +275.07 +274.91 +275.07
1 2 3 4 5 6 7 8 9 10	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73 +277.73 +276.87 +277.22	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.72 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.72	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88 +279.76 +280.10 +279.06 +279.22 +279.22	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +279.34 +278.83	DAILY C FEB +279,99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14 +280.79 +280.26 +280.95	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49 +281.83	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.30 +283.33 +283.68 +284.53	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.60 +287.76 +287.76 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +282.18	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.84 +277.49 +277.49 +277.6.29 +276.29	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.91 +274.91 +274.73 +274.91 +275.07
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73 +277.73 +277.73 +276.87 +277.22 +277.91	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.78 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.88 +279.06 +279.57 +278.03	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.76 +280.10 +279.06 +278.72 +278.72 +278.72 +278.72 +278.72 +280.10	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +279.34 +279.34 +279.69	DAILY C FEB +279,99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 -279.80 +280.79 +281.14 +281.14 +280.79 +281.14 +281.14 +280.79 +281.14	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30 +281.83 +282.52 +281.30 +281.99 +281.83 +282.99 +281.83 +282.99	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.33 +283.33 +284.53 +284.53 +284.53	JUN +286.21 +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.60 +287.76 +287.76 +287.76 +287.76 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.89 +280.95	AUG +279.22 +279.41 +279.06 +278.72 +278.78 +278.88 +278.19 +277.49 +277.49 +277.60 +276.29 +276.11 +275.60	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +274.91 +275.07 +274.91 +275.07 +274.91 +275.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.03 +277.73 +276.87 +277.22 +277.91	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.88 +279.06 +279.57	DEC +279.92 +278.37 +278.53 +279.41 +278.37 +278.72 +278.88 +279.76 +280.10 +279.06 +278.72 +279.22 +278.72 +278.72 +280.10 +278.72	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.65 +279.34 +279.34 +278.83 +279.34 +279.34	PAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.81 +279.81 +279.80 +279.81 +279.80 +279.81 +279.81 +279.81 +279.81	MAR +279.64 +279.80 -280.15 -279.64 +280.33 -279.80 +280.79 +281.14 +280.79 +281.14 +280.95 +281.14 +280.95 +280.61	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.30 +281.99 +281.83 +282.52 +281.30 +281.65 +281.83 +282.52	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +283.15 +282.29 +282.29 +282.80 +283.33 +284.53 +284.53 +284.53	JUN +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.60 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.72 +286.72 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.49 +280.95 +280.95	AUG +279.22 +279.41 +279.06 +279.06 +278.78 +278.88 +278.19 +277.84 +277.49 +277.15 +276.29 +276.29 +275.60 +275.60 +275.76	+274.91 +274.56 +274.91 +275.26 +275.26 +274.38 +274.91 +274.91 +274.91 +275.07 +274.91 +275.07 +275.07 +275.07 +275.42 +274.91
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.03 +277.73 +277.73 +277.73 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.88 +279.06 +279.57 +278.03 +279.06 +279.06 +279.06	DEC +279.92 +278.37 +278.53 +279.41 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +280.10 +278.19 +278.19 +278.19 +278.19 +278.19 +278.19 +278.19	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +279.34 +279.34 +279.69	PAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14 +281.14 +280.79 +281.14 +280.80.79 +281.61 +280.61 +280.61	APR +281.14 +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49 +281.83 +282.52	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.29 +282.33 +284.53 +284.53 +284.53 +284.72 +284.18 +284.72	JUN +286.21 +286.21 +286.91 +287.07 +286.93 +287.60 +287.60 +287.60 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.83 +281.84 +280.95 +280.95 +279.41 +279.22	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.49 +277.49 +277.5 -276.29 +276.11 +275.60 +275.76 +276.11 +275.76	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +275.07 +274.91 +275.07 +274.91 +275.07 +274.91 +275.07 +273.69 +273.69 +273.53 +273.00 +273.18
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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	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.03 +277.73 +277.73 +277.73 +277.73 +277.73 +277.38 +277.73 +277.38 +277.38 +277.38 +277.38 +277.38 +277.33 +277.38 +277.73 +277.38 +277.73 +277.38 +277.73	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.37 +279.06 +278.03 +278.00 +278.72 +278.88 +279.06 +278.72 +278.83 +279.06 +278.72 +278.83 +279.06 +278.72 +278.83 +279.06 +278.72 +278.83 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.22 +279.22 +279.22 +279.22 +279.22 +279.22 +278.88	DEC +279.92 +278.37 +278.53 +279.41 +278.72 +278.72 +278.88	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +278.83 +279.34 +279.69	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.99 +280.49	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +280.79 +281.14 +280.79 +281.14 +280.95 +281.14 +280.61 +280.61 +280.95 +281.65 +281.65	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.83 +282.52 +281.30 +281.49 +281.49 +281.65 +281.83 +281.99 +281.99 +281.99 +282.87 +282.87 +282.99 +282.99 +282.99	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.29 +282.80 +284.53 +284.53 +284.53 +284.72 +284.18 +284.73 +284.84 +284.84 +283.84 +284.83	JUN +286.21 +286.21 +286.91 +287.07 +286.93 +287.60 +287.60 +287.60 +287.76	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.83 +281.49 +280.95 +279.41 +279.22 +278.72 +278.72 +278.72 +278.72 +278.72 +278.73 +278.19	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.49 +277.49 +277.5 +276.29 +276.11 +275.60 +275.76 +275.26 +274.91	+274.91 +274.56 +274.91 +275.26 +275.26 +275.26 +274.91 +274.91 +274.91 +275.07 +275.07 +275.42 +274.91 +275.07 +273.69 +273.53 +273.53 +273.53 +273.00 +273.18 +272.83 +273.00 +275.76 +275.76 +275.76 +275.76
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 25 26 27	+276.34 +276.18 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73 +277.73 +277.73 +277.73 +277.73 +277.73 +277.38 +277.73 +277.38 +277.38 +277.38 +276.69 +277.03 +276.69 +277.03 +276.73 +277.73 +277.73 +277.73 +277.73	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.42 +278.37 +279.06 +278.03 e+278.00 +278.72 +278.88 +279.06 +279.57 +278.03 +279.06 +278.72 +278.88 +279.06 +278.72 +278.88 +279.06 +278.72 +278.88 +279.06 +278.72 +279.22 +278.88 e+279.10	DEC +279.92 +278.37 +278.53 +279.41 +278.72 +278.72 +278.72 +279.76 +280.10 +279.06 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +280.10 +278.19 +278.03 +279.52 +278.14 +277.96 +280.72 +278.30 e+279.00 +278.30 e+279.00 +278.83 +279.88	JAN +277.96 +278.49 +278.30 +279.52 +278.83 +278.83 +278.83 +279.34 +279.34 +279.69	PAILY C FEB +279,99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.81 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.33 +281.02	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +280.79 +281.14 +280.95 +281.14 +280.61 +280.95 +281.14 +280.61 +280.61 +280.65 +281.65 +281.65	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49 +281.83 +282.52 +281.30 +281.49 +281.65 +281.83 +281.99 +282.11 +282.11 +282.11 +282.11 +282.99 +282.99 +282.99 +282.99	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.15 +282.29 +282.29 +282.29 +282.33 +284.53 +284.53 +284.53 +284.72 +284.18 +284.37 +284.18 +284.37 +284.37 +284.18 +284.37	JUN +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.76 +287.60 +287.76 +287.60 +287.76 +287.60 +287.60 +287.41 +287.60 +287.41	JUL +287.07 +287.41 +287.25 +287.07 +286.91 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.83 +281.49 +280.95 +279.41 +279.22 +278.72 +278.72 +278.72 +278.72 +278.73 +278.79 +278.79 +278.79 +278.79 +278.79	AUG +279.22 +279.41 +279.06 +278.72 +278.88 +278.19 +277.49 +277.49 +277.560 +276.11 +275.60 +275.76 +276.11 +275.76 +275.42 +275.26 +274.56 +274.73	+274.91 +274.56 +274.91 +275.26 +275.26 +274.91 +274.38 +274.91 +275.07 +274.91 +275.07 +274.91 +275.07 +275.42 +274.91 +275.42 +273.53 +273.00 +273.53 +273.00 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76
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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 30 30 30 30 30 30 30 30 30 30 30 30	+276.34 +276.18 +276.53 +276.69 +276.69 +277.03 +277.22 +277.73 +277.73 +277.73 +277.73 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.33 +277.38 +277.33 +277.38 +277.37 +278.07 +278.26 +277.73	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.37 +279.06 +278.03 +278.79 +278.79 +278.03 +279.06 +279.57 +278.03 +279.06 +278.72 +278.72 +279.06 +278.72 +279.06 +278.72 +279.22 +278.88 +279.22 +279.26 +279.22 +278.88 +279.10 +279.22 +278.88 +279.10 +279.22 +278.88 +279.10 +279.24 +279.24 +279.26 +279.27 +278.88 +279.10 +279.29 +278.88 +279.10 +279.00 +278.88 +279.41	DEC +279.92 +278.37 +278.53 +279.41 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +280.10 +279.06 +278.72 +278.72 +278.72 +280.10 +278.03 +279.52 +278.14 +277.96 +280.72 +278.30 +278.30 +279.883 +279.883 +279.18 +278.83 +279.18 +278.83 +279.18	JAN +277.96 +278.49 +278.30 +279.52 +278.83 +278.83 +278.65 +279.34 +279.34 +279.69	PAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.80 +280.15 +279.11 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.33 +281.02 +279.99 +280.38 +280.49 +279.99 +280.38 +281.02 +279.99 +280.38 +281.02 +279.99 +280.38 +281.02 +279.99 +280.38	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +281.14 +280.79 +281.14 +280.95 +281.14 +280.61 +280.95 +281.14 +280.61 +280.95 +281.14 +280.61 +280.65 +281.65 +281.65 +281.65 +281.65 +281.49	APR +281.14 +281.14 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +281.99 +281.83 +282.52 +281.30 +281.49 +281.49 +281.41 +282.11 +282.11 +282.29 +282.29 +282.29 +282.29 +282.29 +282.99 +282.99	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.49 +283.15 +282.29 +282.29 +282.29 +282.80 +283.33 +284.53 +284.53 +284.53 +284.72 +284.18 +284.72 +284.80 +284.81 +284.72 +284.81 +284.72 +285.57 +284.18 +284.81	JUN +286.21 +286.21 +286.91 +287.07 +286.03 +286.91 +287.60 +287.60 +287.76 +287.60 +287.76 +287.25 +287.25 +287.25 +287.25 +287.41 +287.41 +287.41 +287.41 +287.41 +287.41 +287.41 +287.41	JUL +287.07 +287.41 +287.25 +287.07 +286.91 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +281.83 +281.83 +281.87 +279.41 +279.22 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72 +278.72	AUG +279.22 +279.41 +279.06 +278.72 +278.88 +278.19 +277.49 +277.49 +277.56 +276.11 +275.60 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.42 +274.73 +274.73 +274.73	+274.91 +274.56 +274.91 +275.26 +275.26 +274.38 +274.91 +274.91 +275.07 +274.91 +275.07 +274.91 +275.07 +275.42 +274.91 +275.42 +273.53 +273.00 +273.53 +273.00 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.95 +277.15 +276.64 +277.33
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 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+276.34 +276.18 +276.53 +276.53 +276.69 +276.69 +277.03 +277.22 +277.03 +277.73 +277.73 +277.73 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +277.38 +276.69 +277.56	NOV +277.56 +277.91 +278.42 +278.76 +278.60 +278.76 +278.03 +278.03 +278.03 +278.03 +279.06 +278.72 +278.03 +279.06 +278.72 +278.88 +279.06 +278.72 +278.88 +279.06 +278.72 +278.88 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.72 +279.06 +278.88	DEC +279.92 +278.37 +278.53 +279.41 +278.72 +278.72 +278.88	JAN +277.96 +278.49 +278.30 +279.52 +278.99 +279.18 +278.83 +278.65 +279.34 +278.83 +279.34 +279.69	DAILY C FEB +279.99 +280.15 +279.64 +280.15 +279.80 +280.15 +279.81 +279.81 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.80 +279.99 +280.49 +280.49 +280.49 +280.49 +280.49 +280.49 +280.49 +280.49 +279.99 +280.49 +280.49 +279.99 +280.49 +279.99 +280.49 +279.99 +280.49 +279.99 +280.49 +279.99 +280.49 +279.99 +280.49 +279.99	MAR +279.64 +279.80 +280.15 +279.64 +280.33 +279.80 +280.79 +281.14 +280.79 +281.14 +280.79 +281.14 +280.61 +280.61 +280.61 +280.61 +280.61 +280.65 +281.14	APR +281.14 +281.14 +280.95 +280.95 +280.95 +281.49 +281.83 +281.99 +281.83 +282.52 +281.80 +281.49 +281.49 +281.41 +282.11 +282.81 +282.81 +282.99 +282.29 +282.29 +282.29 +282.29 +282.29 +282.29 +282.29 +282.29 +282.29 +282.29	HOURS MAY +283.33 +283.15 +282.64 +282.29 +283.15 +283.15 +282.29 +283.33 +284.53 +284.53 +284.53 +284.72 +284.18 +284.73 +284.84 +284.84 +284.84 +284.84 +284.84 +284.18 +284.18 +284.18 +284.18 +284.18 +284.18 +284.18 +284.18 +284.18	JUN +286.21 +286.21 +286.91 +287.07 +286.03 +287.60 +287.60 +287.60 +287.76 +287.77 +287.81 +287.81 +287.81 +287.81	JUL +287.07 +287.41 +287.25 +287.07 +287.07 +286.91 +286.72 +286.72 +286.21 +285.45 +284.60 +283.38 +281.83 +2	AUG +279.22 +279.41 +279.06 +279.06 +278.72 +278.88 +278.19 +277.49 +277.49 +277.5 +276.29 +276.11 +275.60 +275.76 +274.73 +274.73	+274.91 +274.56 +274.91 +275.26 +275.26 +275.26 +274.91 +274.91 +274.91 +274.91 +275.07 +275.07 +275.42 +273.53 +273.53 +273.53 +273.53 +273.00 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.76 +275.95 +275.95 +275.95 +277.15 +276.64

SITE NUMBER 2—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+276.80 +276.80 +276.80 +277.49 +277.96	+282.34 +282.80		+282.57 +282.11	+282.80 +281.88	+283.95 +283.03 +283.72	+283.72 +283.49 +284.42 +284.18 +283.26	+286.03 +285.80 +286.72 +287.18 +286.95	+288.57 +288.80 +288.80 +288.80 +289.03		+280.26 +280.49 +280.72 +280.49 +280.49	+276.80 +276.80 +277.03 +277.26 +277.49
6 7 8 9 10	+277.49 +277.73 +277.26	+282.11 +281.88 +282.11		+282.80 +282.11 +281.65	+281.88 +282.57 +282.57	+283.95 +283.95 +283.26	+283.26 +283.72 +286.03 +283.26 +283.95	+287.41 +287.65 +287.18 +288.11 +288.11	+289.49	+288.11 +288.34 +287.88 +286.49 +285.57	+280.49 +280.26 +281.19 +280.49 +279.80	+277.49 +277.26 +277.03 +277.03 +277.73
11 12 13 14 15	+278.88 +279.57 +279.57 +279.57 +279.57		+282.57 +283.26 +283.03 +282.11 +282.80	+280.72 +282.57 +281.88	+283.03	+283.26 +282.80	+283.49 +283.26 +283.72 +284.18 +283.95	+287.18 +287.65 +288.11 +288.34 +288.11		+284.65 +283.95 +283.26 +283.03 +282.34	+279.57	+278.19 +278.42 +278.42 +278.42 +278.88
16 17 18 19 20		+283.03 +282.57	+282.34 +282.11 +282.11 +282.80	+282.11 +282.34 +282.80	+283.95 +283.26 +283.49	+282.57 +283.03 +283.95	+284.65	+288.34 +288.34 +286.72 +286.72 +286.72	+289.49	+281.65 +281.19 +280.72 +280.49 +280.03	+277.73 +277.96 +278.42 +278.42 +277.73	+279.11 +279.34 +280.26 +279.57 +279.80
21 22 23 24 25	+279.80 +280.95 +281.42 +280.72 +280.95		+281.88	+282.11 +282.11 +281.65	+282.57 +283.26	+283.72 +283.26 +282.57			+289.49 +289.49 +289.49 +289.03 +289.03	+280.03 +280.26 +280.72 +280.95 +280.72	+277.96 +277.73 +277.96 +277.73	+280.03 +280.26 +280.49 +281.19 +281.42
26 27 28 29 30 31	+280.72 +281.65 +282.57 +281.65 +281.65 +281.88	+283.26 +283.49	+283.49 +281.88 +283.49 +283.03 +282.57 +282.80	+282.11 +283.49	+282.57	+284.65 +283.95	+286.03		+289.49	+280.49 +280.03 +279.80 +279.57 +279.57 +279.80	+277.73 +277.73 +277.73 +277.49 +277.03 +277.26	+281.19 +281.19 +281.88 +282.11 +282.34
LOW	+276.80	+281.42	+281.65	+280.72	+281.88	+282.57	+283.26	+285.80	+288.57	+279.57	+277.03	+276.80
		WATER LEV	JEL, IN FE	EET ABOVE					BER 1997 1	TO SEPTEME	BER 1998	
DAY	OCT	WATER LEV	JEL, IN FE	EET ABOVE JAN			1, WATER 1 N AT 1200 APR		BER 1997 1	TO SEPTEME JUL	BER 1998 AUG	SEP
DAY 1 2 3 4 5	+282.57 +282.80 +281.88 +281.42	NOV		JAN 	DAILY O	MAR +282.64 +282.45 +282.29	N AT 1200	HOURS MAY	JUN	JUL		
1 2 3 4	+282.57 +282.80 +281.88 +281.42 +280.95	NOV +280.03 +279.34 +280.49 +280.26	DEC	JAN	DAILY O FEB +282.80 +281.25 +281.60 +281.25	MAR +282.64 +282.45 +282.29 +282.64	APR	MAY	JUN +276.29 +275.72 +276.06	JUL +281.14 +281.25 +281.25 +281.42	AUG +276.18 +276.34 +276.53 +277.03 +277.38 +277.38 +277.38 +277.33	+275.65 +276.18 +276.18 +276.34 +276.34
1 2 3 4 5 6 7 8	+282.57 +282.80 +281.88 +281.42 +280.95 +280.72 +280.72 +280.26 +280.26	NOV +280.03 +279.34 +280.49 +280.26 +279.80 +281.42 +281.42	DEC	JAN	DAILY O FEB +282.80 +281.25 +281.60 +281.25 +281.60 +282.45 +282.99 +282.45 +281.60	MAR +282.64 +282.45 +282.29 +282.64 +282.80	APR	MAY	JUN +276.29 +275.72 +276.06 +276.06 +276.06 +275.65 +275.65	JUL +281.14 +281.25 +281.25 +281.42 +281.76 +281.77 +280.84 +280.49 +280.33 +280.10 +279.76 +279.76 +279.57	AUG +276.18 +276.34 +276.53 +277.03 +277.38 +277.38 +277.33 +277.33 +277.49 +277.49 +277.33 +276.99 +277.15	+275.65 +276.18 +276.34 +276.34 +276.53 +276.69 +276.80 +276.80 +276.46 +276.80 +277.33 +277.49
1 2 3 4 5 6 7 8 9 10 11 12 13 14	+282.57 +282.80 +281.88 +281.42 +280.95 +280.72 +280.72 +280.26 +280.26 +280.95 +279.34 +279.34 +280.26	NOV +280.03 +279.34 +280.49 +280.26 +279.80 +281.42 +281.42	DEC	JAN	DAILY O FEB +282.80 +281.25 +281.60 +281.25 +281.60 +282.45 +282.99 +282.45 +281.60 +282.45 +281.76 +281.76	MAR +282.64 +282.45 +282.29 +282.64 +282.80	APR	MAY	JUN +276.29 +275.72 +276.06 +276.06 +275.65 +275.99 +276.18 +276.53 +276.11	JUL +281.14 +281.25 +281.25 +281.42 +281.76 +281.77 +280.84 +280.49 +280.33 +280.10 +279.76 +279.76 +279.57	AUG +276.18 +276.18 +276.34 +276.53 +277.03 +277.38 +277.38 +277.49 +277.49 +277.33 +277.49 +277.15	+275.65 +276.18 +276.34 +276.34 +276.53 +276.69 +276.80 +276.80 +276.46 +276.80 +277.33 +277.49
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+282.57 +282.80 +281.88 +281.42 +280.95 +280.72 +280.26 +280.26 +280.95 +279.34 +279.34 +280.26 +280.03 +280.03 +280.03 +280.03 +280.49 +279.34	NOV +280.03 +279.34 +280.49 +280.26 +279.80 +281.42 +281.42	DEC	JAN	DAILY O FEB +282.80 +281.25 +281.60 +281.25 +281.60 +282.45 +282.99 +282.45 +281.60 +282.45 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76 +281.76	#282.64 +282.29 +282.64 +282.80 	APR	MAY	JUN +276.29 +275.72 +276.06 +276.06 +276.06 +275.65 +275.99 +276.18 +276.11 +276.11 +276.29 +276.80 +276.11 +275.72 +276.92	JUL +281.14 +281.25 +281.25 +281.42 +281.76 +281.72 +281.37 +280.49 +280.33 +280.10 +279.76 +279.76 +279.79 +279.81 +279.83 +278.83 +278.83 +278.83	AUG +276.18 +276.18 +276.34 +276.53 +277.03 +277.38 +277.33 +277.49 +277.49 +277.15 +276.99 +277.15 +276.99 +276.46 +276.11 +275.72	+275.65 +276.18 +276.34 +276.34 +276.53 +276.69 +276.80 +276.80 +276.80 +277.49 +277.49 +277.49 +277.68 +277.68

LOW +277.49 +279.34 --- +281.42 +281.25 +282.29 --- +275.65 +275.72 +273.80 +275.65

SITE NUMBER FROM LOCATION MAP.—3.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—7N1E33CCDD3.

SITE ID (STATION NUMBER).—443100104002003.

OTHER IDENTIFIER.—LA-94A and State Line Mnkt.

LOCATION.—Lat 44°31′04.2″, long 104°00′25.3″, in SE¹/4SE¹/4SW¹/4SW¹/4 sec. 33, T. 7 N., R. 1 E., Hydrologic Unit 10120203, 7 mi west of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnekahta.

WELL CHARACTERISTICS.—Drilled observation well, 333 ft deep with 298 ft of 5-in. steel casing; open hole from 298 to 333 ft.

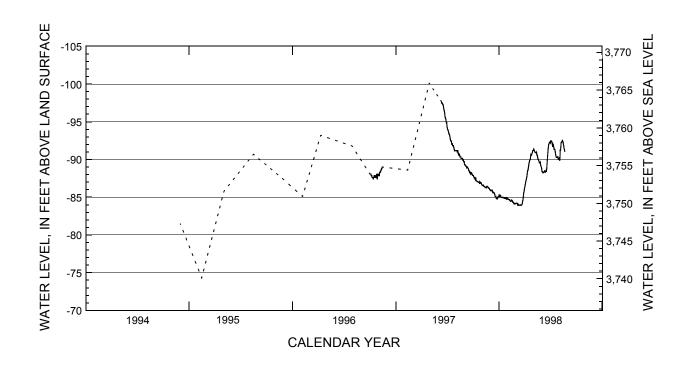
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,665.8 ft above sea level. Measuring point: Base of gage, 2.65 ft above land-surface datum.

REMARKS.—Records poor.

PERIOD OF RECORD.—November 1994 to September 1998.

EXTREMES.—Highest daily water level, 100.1 ft above land-surface datum, Apr. 29, 1997; lowest daily water level, 74.3 ft above land-surface datum, Feb. 14, 1995.



SITE NUMBER 3-Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4								e+85.8				
5												
6												
7												
8												
9												
10												
11												
12												
13												
14					e+74.3							
15												
16											e+90.7	
17												
18												
19												
20												
21												
22												
23												
24												
25												
23												
26												
27												
28												
29												
30		e+81.5										
31												
LOW		+81.50			+74.30			+85.80			+90.70	

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

					2.1	121 201120	1 11110110					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6					e+85.1							
7												
8												
9												
10							e+93.2					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29		e+87.4										
30										e+91.8		
31												
LOW		+87.40			+85.10		+93.20			+91.80		
TOM		107.40			103.10		100.20			121.00		

e Estimated

SITE NUMBER 3—Continued WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP +94.42 +89.28 +88.08 +88.08 +91.17 +87.85 +87.85 ___ ___ ___ ___ ___ ___ +88.08 ___ +94.21 +91.19 +89.28 +93.98 +91.19 +89.28 +88.08 +88.08 +87.85 +93.98 +91.19 +89.28 ___ ___ ___ ___ ---5 +88.08 +88.31 +93.78 +91 19 +89.28 6 +87.85 +88.31 +93.78 +90.99 +89.07 ------___ ---+87.85 +88.31 ___ ___ ___ +93.55 +90.99 +89.07 +87.85 8 +88.31 +93.34 +91.22 +89.07 ---+87.62 +88.54 +93.34 +90.99 +88.93 ------------10 +87.62 +88.54 +93.34 +90.75 +89.02 11 +87.62 +88.77 +88.77 +97.72 +93.13 +90 78 +89.02 12 --------------e+88.6 +97.49 +92.90 +87.62 +90.55 +88.95 +87.39 +97.51 +92.67 +90.55 13 +88.77 +88.89 14 15 +87.62 +89.00 ___ ___ ___ ___ ___ ___ +97.51 +92.46 +90 78 +88.77 ---+97.31 +92.46 +90.57 +88.77 +87.62 +89.00 16 +87.85 ___ ___ ___ ___ ___ ___ +97.31 +92.48 +90.34 +88.49 ------------------+97.31 +97.10 ---+92.25 +92.02 +90.34 +90.34 17 +87.85 +88.49 19 +87.62 ___ ___ ___ ___ ___ ___ ___ +96.87 +92.02 +90.34 +88.33 ---------------------20 +87.85 +96.64 +92.05 +90.13 +88.17 21 +87 85 +96 43 +90 13 ___ ___ ___ ___ ___ ___ +91 82 +88 33 ---22 +87.62 ------------___ ---+91.82 +90.13 +96.43 +88.24 23 +96.20 +91.82 +90.13 24 +87 85 ___ ___ ___ ___ ___ ___ ___ +95 76 +91.84 +90 15 +88 15 25 ------------------+91.61 +88.08 +95.53 +89.92 +88.12 26 +95 53 +87 85 ___ ___ ___ ___ ___ +91 38 +89 92 +88 29 ___ ___ 27 ------------___ ------+87.39 +91.38 +89.92 +95.32 +88.06 28 ------+95.09 +91.15 +89.95 ------___ --- e+100 1 ___ +88 08 +94 88 +91.17 +89 72 +87 89 30 +91.17 +89.72 +88.08 +94.88 +87.89 31 +87.85 +91.17 +89.72 LOW +87.39 +87.85 +88.60 --- +100.10 +94.88 +91.15 +89.72 +87.89 WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

		WAIER LEV	LL, IN FE	EI ABOVE		AILY LOWE		EAR OCIOB	ER 199/ 1	O SEPIEMB	ER 1990	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+87.89	+86.69	+86.00	+85.24	+84.80	+84.13	+86.19	+91.17	+88.82	+92.35	+90.13	
2	+87.89	+86.60	+85.91	+85.15	+84.73	+84.20	+86.26	+91.17	+88.40	+92.18	+89.97	
3	+87.73	+86.60	+85.84	+85.08	+84.73	+84.20	+86.42	+91.24	+88.40	+92.25	+89.92	
4	+87.66	+86.60	+85.84	+85.31	+84.73	+84.20	+86.65	+91.38	+88.33	+92.48	+89.85	
5	+87.66	+86.53	+85.84	+85.13	+84.66	+84.20	+86.86	+91.24	+88.24	+92.48	+90.22	
6	+87.50	+86.51	+85.89	+85.13	+84.66	+84.20	+87.09	+91.17	+88.24	+92.42	+91.24	
7	+87.64	+86.58	+85.96	+85.19	+84.69	+84.09	+87.22	+91.10	+88.24	+92.35	+91.24	
8	+87.41	+86.51	+85.96	+85.06	+84.69	+83.99	+87.43	+91.01	+88.33	+92.25	+91.72	
9	+87.34	+86.42	+85.79	+84.96	+84.53	+84.09	+87.57	+90.94	+88.33	+91.91	+92.23	
10	+87.48	+86.42	+85.59	+84.96	+84.53	+83.93	+87.80	+90.94	+88.40	+91.68	+92.30	
11	+87.55	+86.42	+85.59	+84.96	+84.46	+83.93	+88.08	+90.94	+88.54	+92.05	+92.30	
12	+87.18	+86.42	+85.66	+84.94	+84.46	+83.99	+88.52	+90.87	+88.42	+91.98	+92.39	
13	+87.18	+86.26	+85.56	+84.94	+84.46	+83.93	+88.52	+90.87	+88.49	+91.84	+92.53	
14	+87.16	+86.26	+85.56	+85.01	+84.53	+83.93	+88.65	+90.96	+88.26	+91.54	+92.46	
15	+87.09	+86.26	+85.56	+85.01	+84.62	+83.93	+88.95	+90.62	+88.36	+91.33	+92.39	
16	+87.09	+86.26	+85.56	+84.92	+84.53	+83.93	+89.16	+90.45	+88.42	+91.33	+92.30	
17	+87.09	+86.26	+85.40	+84.92	+84.53	+83.99	+89.49	+90.62	+88.42	+91.35	+91.95	
18	+87.06	+86.37	+85.24	+84.92	+84.46	+83.93	+89.62	+90.25	+88.42	+91.28	+91.82	
19	+86.99	+86.30	+85.03	+84.92	+84.32	+83.93	+89.83	+90.04	+88.77	+91.05	+91.52	
20	+86.99	+86.44	+85.03	+84.85	+84.32	+83.93	+89.90	+90.04	+89.35	+90.85	+91.33	
21	+86.99	+86.42	+85.08	+84.85	+84.32	+83.95	+89.99	+89.95	+89.92	+90.55	+91.26	
22	+86.97	+86.35	+84.87	+84.85	+84.20	+83.95	+90.06	+89.81	+90.43	+90.41	+91.03	
23	+87.04	+86.35	+84.87	+84.85	+84.13	+84.02	+90.34	+89.67	+91.01	+90.27		
24	+86.81	+86.32	+84.78	+84.92	+84.20	+84.11	+90.64	+89.53	+91.38	+90.27		
25	+86.81	+86.19	+84.78	+84.80	+84.20	+84.25	+90.57	+89.53	+91.75	+90.27		
26	+86.88	+86.19	+84.78	+84.80	+84.13	+84.53	+90.57	+89.53	+92.02	+90.27		
27	+86.95	+86.19	+84.92	+84.87	+84.13	+84.69	+90.71	+89.62	+92.09	+90.27		
28	+86.88	+86.09	+84.92	+84.73	+84.13	+85.03	+90.78	+89.39	+92.23	+90.41		
29	+86.92	+86.00	+85.10	+84.73		+85.40	+90.92	+89.19	+92.25	+90.13		
30	+86.92	+86.00	+85.10	+84.87		+85.68	+91.17	+89.05	+92.25	+90.04		
31	+86.76		+85.10	+84.80		+85.82		+88.98		+90.04		
LOW	+86.76	+86.00	+84.78	+84.73	+84.13	+83.93	+86.19	+88.98	+88.24	+90.04	+89.85	

Estimated

SITE NUMBER FROM LOCATION MAP.—4.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—7N1E33CCDD2.

SITE ID (STATION NUMBER).—443100104002002.

OTHER IDENTIFIER.—LA-87B and State Line Mnls.

LOCATION.—Lat 44°31′04.2″, long 104°00′25.3″, in SE¹/4SE¹/4SW¹/4SW¹/4 sec. 33, T. 7 N., R. 1 E., Hydrologic Unit 10120203, 7 mi west of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 458 ft deep with 434 ft of 5-in. steel casing; open hole from 434 to 458 ft.

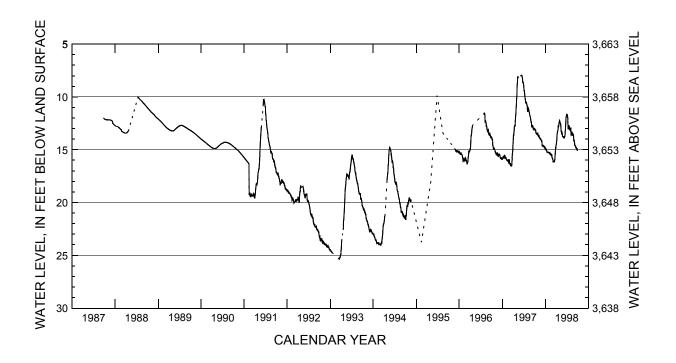
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,668.0 ft above sea level. Measuring point: Top of steel casing, 2.30 ft above land-surface datum.

REMARKS.—Recent records fair. Air pumping during February 1991 may have changed well characteristics, improving sensitivity to water-level changes. Records prior to February 1991 considered poor.

PERIOD OF RECORD.—September 1987 to September 1998.

EXTREMES.—Highest daily water level, 7.96 ft below land-surface datum, June 12, 13, 15, 1997; lowest daily water level, 25.37 ft below land-surface datum, Mar. 17, 1993.



SITE NUMBER 4—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITT. AUG SEP 21.27 19.54 21.32 19.58 ___ ------___ ------___ ------___ ___ ___ 21.60 ------___ ---19.58 21.65 19.59 ___ e18.10 ___ 5 21.56 19.71 ___ ------___ ---------___ 21.28 19.79 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 8 21.26 21.11 19.83 ------------------------------19.84 10 20.96 19.80 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 20.75 19.79 20.61 19.73 ------------------------------12 19.84 ___ ___ ___ ___ ___ ___ ___ ___ 13 20.56 ___ 20.38 19.94 e23.76 14 15 20.24 19.93 ------------20.33 16 e13.46 17 20.33 19.77 ___ ___ ____ ___ 20.36 18 ------------------------------19 20 20.38 21 20.27 19.96 ------------___ ------------___ 23 20 04 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 24 20.08 25 20.09 ---26 20.04 27 19.94 ___ ___ ---___ --e9.89 ___ ___ 28 29 19.90 19.94 ___ ---------___ ------___ ------------------------------------30 19.81 e20.37 31 19.70 ------------------------------20.37 LOW 23.76 9.89 21.65 18.10 13.46 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES OCT DAY NOV DEC JAN FEB MAR MAY JUN JUL AUG SEP 15.00 15.30 15.89 16.01 15.11 11.62 13.16 15.31 ___ 15.04 16.02 16.03 3 ___ ---15.10 15.18 16.07 16.02 14.99 ---___ ---11.59 13.12 ___ ---___ ---15.06 ---15.34 16.02 16.03 14.99 11.61 13.15 5 15.08 15.37 15.99 16.13 14.95 11.65 13.16 6 15.09 15.38 15.91 16.26 14.78 11.81 13.27 ---15.09 15.38 15.90 14.57 13.42 16.36 12.08 8 ___ ___ 15.19 15.41 15.91 16.36 14.33 ___ ___ ___ 12.36 13.57 ---------------15.22 15.42 15.89 16.34 14.09 12.45 13.48 10 15.41 16.05 16.31 12.23 15.19 13.84 13.52 15.15 15.44 16.06 16.27 13.70 ------12.23 13.58 11 ---15.43 16.20 15.12 16.04 13.70 ___ 12.25 13.63 13 ------15.01 15.34 15.97 16.18 13.60 ---------12.39 13.64 ___ ___ ---___ ___ 15 97 14 15 11 15 40 16 17 13 56 12 45 13 63 15 15.12 15.36 16.04 16.11 13.50 12.48 13.50 16.00 16 15.14 15.23 15.90 13.38 12.53 13.48 15.44 15.44 15.78 15.67 ---15.22 16.01 12.54 13.13 13.58 18 ___ 15.22 15.91 13.06 ___ ___ 12.76 13.58 ------------19 15.16 15.41 15.84 15.60 13.00 ---12.85 13.60 20 15.09 15.41 15.88 15.52 12.95 12.72 13.60 21 ---15.19 15.46 15.89 15.37 12.87 ------12.80 13.63 15.46 22 15.19 15.79 15.32 12.84 12.85 13.68 23 ___ ---15.81 ------15.19 13.07 24 ___ ___ 15 21 15.45 15 80 15 29 ___ ___ ___ 13 02 13 77 25 ------15.22 15.48 15.88 15.26 ------------13.07 13.76 26 15 27 15 55 15 88 15.17 13 14 13.77 ---27 ------15.29 15.59 16.04 ---------13.21 13.78 15.16 28 ___ 15.24 15.63 16.08 15.15 ---___ ___ ---13.27 13.79 15.76 15.77 ------29 ---14.98 15.18 16.07 15.06 ___ 13.31 13.82 11.56 ------___ ---30 15.00 15.12 15.11 13.28 13.77 15.12 13.23 31 15.76 11.58 15.16

15.00

15.29

15.77

LOW

16.08

16.36

15.11

11.58

13.31

13.82

e Estimated

SITE NUMBER 4—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOBE	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	13.89 13.95 13.90 13.89 13.99	15.22 15.23 15.21 15.24 15.25	15.46 15.40 15.43 15.46 15.38	15.89 15.82 15.81 15.78 15.80	15.76 15.80 15.89 15.94 15.95	16.01 16.00 16.13 16.28 16.35	14.56 14.55 14.36 14.01 13.77	10.49 10.27 10.11 9.99 9.66	 	8.93 9.04 9.16 9.24 9.44	10.85 11.19 11.23 11.35 11.41	12.34 12.32 12.32 12.35 12.50
6 7 8 9 10	14.04 14.03 14.03 14.08 14.07	15.25 15.39 15.39 15.40 15.43	15.42 15.55 15.55 15.54 15.47	15.81 15.75 15.72 15.65 15.64	15.97 15.99 16.00 15.99 16.02	16.35 16.30 16.41 16.42 16.41	13.62 13.60 13.61 13.51 13.34	9.36 9.00 8.78 8.63 8.50		9.37 9.49 9.55 9.70 9.79	11.18 11.08 11.01 11.03 11.05	12.60 12.75 12.78 12.89 12.85
11 12 13 14 15	14.38 14.59 14.59 14.71 14.71	15.49 15.50 15.50 15.44 15.31	15.51 15.58 15.62 15.74 15.77	15.71 15.78 15.77 15.65 15.76	15.99 15.99 15.98 15.98 16.07	16.41 16.39 16.53 16.53	13.28 13.13 12.95 12.76 12.81	8.20 8.06 8.19 	7.97 7.96 7.96 7.98 7.96	9.86 9.98 10.14 10.16 10.27	11.29 11.26 11.23 11.19 11.32	12.79 12.85 12.83 12.83 12.74
16 17 18 19 20	14.77 14.89 14.89 14.80 14.89	15.34 15.35 15.34 15.32 15.42	15.73 15.84 15.84 15.84 15.77	15.77 15.72 15.74 15.74 15.65	16.06 16.02 16.04 16.04	16.41 16.55 16.57 16.59 16.54	12.81 12.73 12.72 12.72 12.72	 	7.99 8.06 8.09 8.11 8.17	10.28 10.34 10.47 10.59	11.39 11.41 11.49 11.53 11.59	12.75 12.75 12.86 12.93 12.92
21 22 23 24 25	14.97 14.96 14.94 14.94 14.83	15.42 15.39 15.55 15.60	15.70 15.77 15.89 15.89 15.90	15.55 15.57 15.53 15.64 15.67	16.06 16.15 16.21 16.23 16.16	16.53 16.48 16.37 16.08 16.02	12.27 12.18 12.05 11.82 11.74	 	8.23 8.32 8.58 8.67 8.61	10.57 10.56 10.54 10.53 10.55	11.67 11.73 11.77 11.86 11.86	12.99 13.11 13.10 13.04 12.98
26 27 28 29 30 31	14.99 14.99 14.99 15.00 15.07	15.64 15.65 15.55 15.49 15.51	15.91 15.77 15.87 15.89 15.93	15.69 15.83 15.81 15.86 15.79	16.06 15.96 15.93 	15.78 15.47 15.38 15.22 15.11 14.84	11.57 11.40 11.09 10.98 10.82	 	8.62 8.63 8.68 8.74 8.79	10.59 10.67 10.73 10.77 10.77	11.91 11.92 11.96 12.10 12.08 12.29	12.99 13.02 13.03 13.06 13.06
LOW	15.11	15.65	15.93	15.89	16.23	16.59	14.56	10.49	8.79	10.80	12.29	13.11
2011												
2011		WATER LEV	EL, IN FEI	ET BELOW	LAND-SURF.	ACE DATUM		EAR OCTOBI	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FEI DEC	ET BELOW JAN				EAR OCTOBE	ER 1997 I JUN	O SEPTEMB	ER 1998 AUG	SEP
	OCT 13.04 13.02 13.05 13.08 13.15				D <i>P</i>	AILY LOWES	T VALUES					SEP 14.10 14.09 14.07 14.12 14.23
DAY 1 2 3 4	13.04 13.02 13.05 13.08	NOV 13.66 13.65 13.70 13.69	DEC 14.23 14.20 14.15 14.39	JAN 14.86 14.86 14.88 14.89	DF FEB 15.27 15.32 15.32 15.26	MAR 15.77 15.80 15.86 15.86	APR 14.83 14.75 14.57 14.50	MAY 12.30 12.25 12.27 12.31	JUN 13.82 13.81 13.79	JUL 11.81 11.77 11.80 11.69	AUG 13.11 13.09 13.04 13.00	14.10 14.09 14.07 14.12
DAY 1 2 3 4 5 6 7 8 9	13.04 13.02 13.05 13.08 13.15 13.09 13.12 13.17	NOV 13.66 13.65 13.70 13.69 13.69 13.80 13.80 13.78 13.78	DEC 14.23 14.20 14.15 14.39 14.56 14.66 14.66 14.66 14.65 14.63	JAN 14.86 14.86 14.89 14.97 14.98 15.00 14.99 14.96 14.96	DF FEB 15.27 15.32 15.26 15.34 15.33 15.29 15.28 15.34	MAR 15.77 15.80 15.86 15.86 15.91 15.95 16.17 16.10	APR 14.83 14.75 14.57 14.50 14.41 14.41 14.27 14.07 13.81 13.76	MAY 12.30 12.25 12.27 12.31 12.33 12.46 12.51 12.50 12.50	JUN 13.82 13.81 13.79 13.86 13.89 13.89 13.89 13.89	JUL 11.81 11.77 11.80 11.69 11.66 11.68 11.77 11.78 12.04	AUG 13.11 13.09 13.04 13.00 12.95 12.91 13.44 13.53 13.62 13.59	14.10 14.09 14.07 14.12 14.23 14.35 14.41 14.55 14.64
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	13.04 13.02 13.05 13.08 13.15 13.09 13.12 13.16 13.09 13.17 13.27 13.34 13.44	NOV 13.66 13.65 13.70 13.69 13.80 13.80 13.78 13.65 13.74 13.83 13.84 13.87	DEC 14.23 14.20 14.15 14.39 14.56 14.64 14.66 14.65 14.63 14.63 14.63 14.63 14.63	JAN 14.86 14.86 14.88 14.89 14.97 14.98 15.00 14.99 14.96 14.96 15.13 15.11 15.11	DF FEB 15.27 15.32 15.32 15.26 15.34 15.29 15.28 15.34 15.37 15.48 15.50 15.50	MAR 15.77 15.80 15.86 15.86 15.91 15.95 16.17 16.17 16.10 16.12 16.13 16.14 16.13	APR 14.83 14.75 14.57 14.50 14.41 14.27 14.07 13.81 13.76 13.69 13.52 13.41 13.30	MAY 12.30 12.25 12.27 12.31 12.33 12.46 12.51 12.50 12.50 12.52 12.57 12.66 12.79 13.08	JUN 13.82 13.81 13.79 13.86 13.89 13.89 13.83 13.83 13.85 13.79	JUL 11.81 11.77 11.80 11.69 11.66 11.68 11.77 11.78 12.04 12.41 12.58 12.64 12.82	AUG 13.11 13.09 13.04 13.00 12.95 12.91 13.44 13.53 13.62 13.59 13.48 13.42 13.40 13.35	14.10 14.09 14.07 14.12 14.23 14.35 14.41 14.55 14.64 14.63 14.63 14.63 14.63
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	13.04 13.02 13.05 13.08 13.15 13.09 13.17 13.16 13.09 13.17 13.27 13.34 13.46 13.48	NOV 13.66 13.65 13.70 13.69 13.80 13.80 13.74 13.83 13.84 13.92 13.88 13.95 13.95	DEC 14.23 14.20 14.15 14.39 14.56 14.64 14.66 14.65 14.63 14.63 14.63 14.63 14.63 14.63 14.65	JAN 14.86 14.86 14.88 14.89 14.97 14.98 15.00 14.99 14.96 15.13 15.11 15.14 15.19 15.15 15.25 15.25	DF FEB 15.27 15.32 15.32 15.36 15.34 15.33 15.29 15.28 15.34 15.37 15.41 15.48 15.50 15.39 15.37	MAR 15.77 15.80 15.86 15.86 15.91 15.95 16.17 16.10 16.12 16.13 16.14 16.13 16.05	APR 14.83 14.75 14.57 14.50 14.41 14.41 14.27 14.07 13.81 13.76 13.69 13.52 13.41 13.30 13.25 13.24 13.23 13.20 13.15	MAY 12.30 12.25 12.27 12.31 12.33 12.46 12.51 12.50 12.50 12.52 12.57 12.66 12.79 13.08 13.23 13.31 13.31 13.31	JUN 13.82 13.81 13.79 13.86 13.89 13.87 13.89 13.83 13.85 13.79 13.77	JUL 11.81 11.77 11.80 11.69 11.66 11.68 11.77 11.78 12.04 12.41 12.58 12.64 12.82 13.07 12.87 12.72 12.72	AUG 13.11 13.09 13.04 13.00 12.95 12.91 13.44 13.53 13.62 13.59 13.48 13.42 13.35 13.30 13.48 13.47 13.44	14.10 14.09 14.07 14.12 14.23 14.35 14.41 14.55 14.64 14.56 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.74
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	13.04 13.05 13.08 13.15 13.09 13.17 13.16 13.09 13.17 13.27 13.34 13.46 13.48 13.45 13.45 13.45 13.45 13.53	NOV 13.66 13.65 13.70 13.69 13.80 13.80 13.87 13.65 13.74 13.83 13.84 13.89 13.92 13.88 13.92 13.92 13.88 13.97 14.05 14.05 14.05 13.97	DEC 14.23 14.20 14.15 14.39 14.56 14.66 14.66 14.65 14.63 14.63 14.63 14.63 14.65 14.61 14.69 14.74	JAN 14.86 14.86 14.88 14.89 14.97 14.98 15.00 14.96 14.96 15.13 15.11 15.14 15.19 15.15 15.25 15.25 15.25	DF FEB 15.27 15.32 15.32 15.34 15.33 15.29 15.28 15.34 15.37 15.41 15.50 15.39 15.37 15.41 15.45 15.45 15.50 15.50 15.50 15.50	MAR 15.77 15.80 15.86 15.86 15.91 15.95 16.17 16.10 16.12 16.13 16.14 16.13 16.16 16.16 16.16 16.16 16.16 16.16 16.16 16.17 16.18	APR 14.83 14.75 14.57 14.57 14.41 14.41 14.27 14.07 13.81 13.76 13.69 13.52 13.24 13.30 13.25 13.24 13.30 13.25 13.24 13.20 13.15 13.03	MAY 12.30 12.25 12.27 12.31 12.33 12.46 12.51 12.50 12.52 12.57 12.66 12.79 13.08 13.23 13.31 13.36 13.49 13.44 13.29 13.44	JUN 13.82 13.81 13.79 13.86 13.89 13.83 13.83 13.85 13.77 13.67 13.77	JUL 11.81 11.77 11.80 11.69 11.66 11.68 11.77 11.78 12.04 12.41 12.58 12.64 12.82 13.07 12.87 12.72 12.72 12.72 12.72 12.72 12.80 12.85 12.83 12.79	AUG 13.11 13.09 13.04 13.00 12.95 12.91 13.44 13.53 13.62 13.59 13.48 13.42 13.40 13.35 13.30 13.48 13.47 13.44 13.52 13.66 13.66 13.66	14.10 14.09 14.07 14.12 14.23 14.35 14.41 14.55 14.64 14.56 14.63 14.63 14.63 14.63 14.68 14.72 14.72 14.78 14.78

SITE NUMBER FROM LOCATION MAP.—5.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—7N1E33CCDD.

SITE ID (STATION NUMBER).—443100104002001.

OTHER IDENTIFIER.—LA-87A and State Line Mdsn.

LOCATION.—Lat 44°31′04.2″, long 104°00′25.3″, in SE¹/4SE¹/4SW¹/4SW¹/4 sec. 33, T. 7 N., R. 1 E., Hydrologic Unit 10120203, 7 mi west of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,100 ft deep with 1,026 ft of 5-in. steel casing; open hole from 1,026 to 1,100 ft.

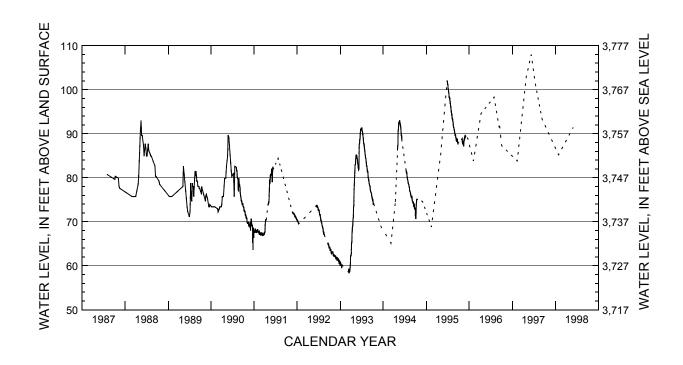
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval. Prior to August 1990, circular-chart pressure recorder.

DATUM.—Elevation of land-surface datum is 3,667.0 ft above sea level. Measuring point: Base of gage, 4.2 ft above land-surface datum.

REMARKS.—Recent records poor.

PERIOD OF RECORD.—October 1987 to September 1998.

EXTREMES.—Highest daily water level, 108.0 ft (estimated) above land-surface datum, June 11, 1997; lowest daily water level, 58.30 ft above land-surface datum, Mar. 17, 1993.



SITE NUMBER 5—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+71.29									+101.21	.04.00	+90.04
1											+94.98	
2	+71.68									+101.26	+95.00	+89.93
3	+71.40									+101.28	+95.03	+89.63
4	+70.90							e+85.4		+101.07	+94.59	+89.51
5	+70.62									+100.63	+94.38	+89.70
6	+71.52									+100.17	+94.40	+89.86
7	+71.93									+100.19	+93.97	+89.67
8	+73.71									+99.99	+93.99	+89.37
9	+74.13									+100.01	+93.55	+89.10
10	+74.31									+99.57	+93.34	+89.03
	T.4. 40									00 00	00.00	00 01
11	+74.49									+99.36	+93.37	+89.21
12	+75.14									+99.16	+93.16	+88.91
13										+98.95	+93.41	+88.45
14					e+68.8					+98.28	+92.97	+88.45
15										+98.30	+92.77	+88.57
16										+98.33	+92.67	+88.27
17										+98.12	+92.51	+88.27
18										+98.37	+92.40	+88.50
19										+97.93	+91.87	+89.01
20										+97.96	+91.75	+88.66
20										+97.90	T91.73	+88.00
21										+97.52	+91.50	+88.20
22										+97.31	+91.38	+88.66
23										+97.31	+91.38	+88.73
24										+96.90	+91.36	+88.15
25										+96.90	+91.10	+87.90
23										100.02	101.10	107.50
26										+96.48	+90.99	+87.78
27										+96.27	+90.80	+87.94
28									+102.09	+96.04	+90.80	+87.55
29									+101.88	+95.83	+90.67	+87.94
30		+74.60							+101.21	+95.86	+90.32	
31										+95.42	+90.09	
31										. , , ,	150.05	
LOW	+70.62	+74.60			+68.80			+85.40	+101.21	+95.42	+90.09	+87.55
		WATER LEV	VEL, IN FEE	T ABOVE		ACE DATUM		EAR OCTO	BER 1995 1	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	VEL, IN FEE DEC	T ABOVE JAN				YEAR OCTOR	BER 1995 1	O SEPTEMB JUL	ER 1996 AUG	SEP
	OCT	NOV	DEC	JAN	DA FEB	ILY LOWES	ST VALUES APR	MAY	JUN	JUL	AUG	
1	OCT	NOV +88.84	DEC	JAN	DA FEB 	ILY LOWES	ST VALUES APR 	MAY	JUN	JUL	AUG	
1 2	OCT	NOV +88.84 +88.89	DEC 	JAN 	DA FEB 	ILY LOWES MAR	ST VALUES APR	MAY 	JUN 	JUL 	AUG	
1 2 3	OCT	NOV +88.84 +88.89 +88.54	DEC 	JAN 	DA FEB 	ILY LOWES MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4	OCT	NOV +88.84 +88.89 +88.54 +87.97	DEC 	JAN 	DA FEB 	ILY LOWES MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3	OCT	NOV +88.84 +88.89 +88.54	DEC 	JAN 	DA FEB 	ILY LOWES MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69	DEC	JAN 	DA FEB 	ILY LOWES MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69	DEC	JAN	DA FEB e+83.8	MAR	APR	MAY 	JUN	JUL 	AUG	
1 2 3 4 5	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06	DEC	JAN	DA FEB e+83.8	MAR	APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5	OCT	NOV +88.84 +88.89 +88.54 +87.69 +88.43 +88.06 +87.90	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5	OCT	NOV +88.84 +88.89 +88.54 +87.69 +88.43 +88.06 +87.90	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48 +88.24	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.06 +87.90 +87.48 +88.24 +88.17	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	 +91.52
1 2 3 4 5 6 7 8 9 10	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48 +88.24 +88.17 +88.24 +87.90	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	 +91.52 +91.52
1 2 3 4 5 6 7 8 9 10	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48 +88.24 +88.17 +88.24 +87.90	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	 +91.52 +91.52 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	 +91.52 +91.52 +91.59 +91.64 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.24 +88.24 +88.24 +87.90 +87.48 +87.48	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	 +91.52 +91.52 +91.59 +91.64
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +87.48 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.17 +88.24 +87.90 +88.06 +87.14 +88.04 +87.92 +88.04	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.59 +91.59 +91.52
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.24 +88.24 +87.90 +87.14 +87.90 +87.14 +88.06 +87.14	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.59 +91.59 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.24 +88.24 +87.90 +87.14 +87.90 +87.14 +88.06 +87.14	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.59 +91.59 +91.52
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.17 +88.24 +87.90 +88.06 +87.14 +88.04 +88.04 +88.04 +88.04 +88.04	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.24 +88.17 +88.06 +87.14 +88.04 +88.04 +88.38 +88.38 +88.34 +88.45	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.48 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14 +88.04 +88.38 +88.73 +88.38	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL.	AUG	+91.52 +91.52 +91.59 +91.59 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14 +88.24 +87.90 +88.04 +87.92 +88.04 +88.04 +87.93 +88.45 +89.31 +88.45	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14 +88.04 +88.38 +88.38 +88.31 +88.84	DEC	JAN	DA FEB	ILY LOWES MAR	APR e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.24 +87.90 +88.06 +87.14 +88.24 +87.90 +88.04 +87.92 +88.04 +88.04 +87.93 +88.45 +89.31 +88.45	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.17 +88.24 +87.90 +88.06 +87.14 +88.04 +88.04 +87.92 +88.04 +87.93 +88.44 +88.45	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.06 +87.14 +88.04 +88.38 +88.38 +88.73 +88.44 +89.31 +88.84 +89.17	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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	OCT	**NOV** **88.84** **87.97* **87.69** **88.43** **88.06** **88.24** **88.24** **88.17* **88.06** **88.14** **88.06** **88.38** **88.38** **88.38** **88.38** **88.31** **88.84** **89.31** **89.31** **89.30** **89.31** **89.30** **89.31** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **89.30** **99.30** **89.30** **99.30**	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL.	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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	OCT	**NOV*** **88.84** **87.97** **88.43** **88.06** **87.48** **88.17** **88.24** **88.17** **88.04	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.06 +87.14 +88.04 +87.92 +88.38 +88.73 +88.44 +89.17 +89.70 +89.05 +89.40 +89.58	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59 +91.52
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 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	**NOV** **88.84** **87.97** **87.69** **88.43** **88.06** **87.48** **88.24** **88.17** **88.06** **87.14** **88.06** **88.04** **88.06** **88.04** **88.06** **88.06** **88.06** **88.06** **89.11** **88.06** **88.06** **89.11** **88.06** **89.11** **88.04** **88.06** **89.11** **88.04** **88.06** **89.11** **99.11*	DEC	JAN	DA FEB e+83.8	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV +88.84 +88.89 +88.54 +87.97 +87.69 +88.43 +88.06 +87.90 +88.24 +88.17 +88.06 +87.14 +88.04 +87.92 +88.38 +88.73 +88.44 +89.17 +89.70 +89.05 +89.40 +89.58	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59
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 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	**NOV** **88.84** **87.97** **87.69** **88.43** **88.06** **87.48** **88.24** **88.17** **88.06** **87.14** **88.06** **88.04** **88.06** **88.04** **88.06** **88.06** **88.06** **88.06** **89.11** **88.06** **88.06** **89.11** **88.06** **89.11** **88.04** **88.06** **89.11** **88.04** **88.06** **89.11** **99.11*	DEC	JAN	DA FEB	ILY LOWES MAR	e+94.6	MAY	JUN	JUL	AUG	+91.52 +91.52 +91.59 +91.64 +91.59

e Estimated

SITE NUMBER 5—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 e+87.3 ---------------------___ ------------___ ___ ___ ---___ ------------------5 ___ ___ ___ 6 7 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 8 ------------------------------------10 ---11 e+108.0 e+93.312 --e+83.8 ___ 13 14 ___ ___ ------------------------------------15 16 --- e+101.1 18 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------19 20 21 ---------23 --___ ___ ___ ___ ___ 24 ___ 25 26 27 28 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------ e+102.9 ---------------29 30 ------+87.30 --- +102.90 +108.00 +101.10 LOW ---+83.80 +93.30 ------------WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 1 --------------------e+91.4 ------------4 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------5 ---------------6 ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---8 ---------------------___ 10 ------------------------11 ------12 ------------------------------13 15 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 17 ___ ___ ___ ___ ___ ___ ___ ___ ---___ ___ ------___ ---------------------------18 20 ___ ---___ ---------------___ ---------21 22 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------25 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 26 27 28 --------------------------------e+85 2 29 ------------------------30 ------___ 31

LOW

70

+91.40

+85.20

e Estimated

SITE NUMBER FROM LOCATION MAP.—6.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N3E15DDDA2.

SITE ID (STATION NUMBER).—442833103434602.

OTHER IDENTIFIER.—LA-95A and Frawley Ranch Mdsn.

LOCATION.—Lat 44°28′34.0″, long 103°43′46.2″, in NE¹/4SE¹/4SE¹/4SE¹/4SE¹/4 sec. 15, T. 6 N., R. 3 E., Hydrologic Unit 10120203, 6 mi east of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 780 ft deep with 751 ft of 5-in. steel casing; open hole from 751 to 780 ft.

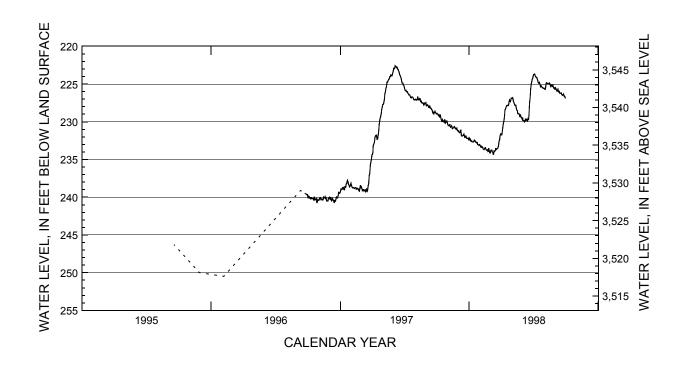
INSTRUMENTATION.—Electronic data logger -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,768.1 ft above sea level. Measuring point: Top of steel casing, 1.70 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1995 to September 1998.

EXTREMES.—Highest daily water level, 222.61 ft below land-surface datum, June 5, 1997; lowest daily water level, 250.5 ft below land-surface datum, Feb. 6, 1996.



SITE NUMBER 6—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ------___ ---------------___ ------------___ ___ ___ ---------___ ---------___ ---___ ---___ ---___ 5 ___ ___ ___ ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------8 ___ 10 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 12 ___ ___ ___ ___ ___ ___ ___ ___ ---___ ___ ------------------------------13 ------15 ------------------___ ___ ___ ___ ---------___ ------------___ ---------___ ---___ 18 ---___ ___ ---___ -----e246.3 19 20 ___ ___ ___ ___ 22 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 23 ------------------------------------25 --28 ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------29 30 31 ---___ ---------___ ------------------LOW 246.30 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ---------------------___ ___ 3 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------6 e250.5 ---___ ---------___ ---------8 ------------------------10 e239.1 11 ------13 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 14 16 ------18 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------19 21 ---___ ---___ ___ ------23 24 ___ --25 239.56 26 27 239.59 28 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 239.66 ------------------------------29 e250.0 239.72 239.60 31 ---------------LOW 250.00 ---250.50 ---239.72

e Estimated

					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239.95	240.36	240.04	239.31	238.36	238.72	234.35	227.72	222.92	225.37	227.07	227.84
2	240.13	240.38	240.21	239.07	238.44	238.66	234.34	227.68	222.92	225.65	227.00	227.89
3	239.92	240.18	240.24	238.90	238.64	238.86	234.05	227.68	222.95	225.80	227.05	227.83
4	239.85	240.11	240.27	238.92	238.76	239.03	233.31	227.49	222.86	225.82	227.14	227.72
5	239.95	240.07	239.97	238.97	238.75	239.16	233.01	227.22	222.61	225.90	227.10	227.81
6	240.10	240.05	240.19	238.97	238.74	239.14	232.94	226.95	222.70	225.84	227.10	227.81
7	240.06	240.34	240.49	238.75	238.76	238.93	232.75	226.28	222.63	225.96	227.02	227.92
8	240.07	240.33	240.47	238.70	238.74	239.14	232.56	226.15	222.67	226.03	226.65	228.09
9	240.23	240.22	240.28	238.68	238.79	239.16	232.09	225.97	222.84	226.01	226.96	228.12
10	240.23	240.23	240.18	238.78	238.85	239.05	231.89	225.54	222.86	226.02	227.06	228.02
11	239.99	240.38	240.35	238.98	238.80	239.08	231.82	225.41	222.80	226.20	227.00	227.90
12	240.17	240.39	240.36	239.03	238.74	239.04	231.78	225.20	222.91	226.25	227.12	228.04
13	240.18	240.35	240.41	238.95	238.73	239.29	231.76	224.76	223.09	226.31	227.10	228.19
14	240.16	240.12	240.68	238.53	238.80	239.30	231.99	224.78	223.11	226.44	226.91	228.23
15	240.18	239.98	240.69	238.69	238.95	239.10	232.33	224.76	223.25	226.42	226.94	228.22
16	240.16	240.05	240.37	238.69	238.90	238.84	232.31	224.55	223.34	226.43	227.28	228.36
17	240.35	240.10	240.57	238.39	238.74	239.13	232.15	224.44	223.56	226.49	227.37	228.37
18	240.33	240.09	240.50	238.21	238.93	239.22	231.81	224.37	223.76	226.64	227.27	228.45
19	239.94	239.94	240.36	238.18	238.92	239.05	231.49	224.36	223.78	226.80	227.41	228.73
20	240.20	240.18	240.11	237.91	238.86	238.80	231.06	224.21	223.99	226.82	227.51	228.83
21	240.37	240.16	239.96	237.76	238.90	238.43	230.36	224.04	224.10	226.83	227.47	228.71
22	240.31	240.13	240.00	237.90	239.11	238.23	230.02	224.05	224.17	226.72	227.53	228.75
23	240.26	240.50	240.11	237.96	239.15	237.83	229.71	224.00	224.44	226.68	227.57	228.91
24	240.26	240.50	240.11	238.32	239.20	237.05	229.47	223.78	224.67	226.73	227.54	228.76
25	240.09	240.48	239.94	238.36	238.89	236.92	229.34	223.80	224.89	226.74	227.80	228.73
26 27 28 29 30 31	240.68 240.72 240.57 240.31 240.38 240.42	240.51 240.51 240.16 240.14 240.19	239.82 239.30 239.46 239.49 239.49 239.41	238.39 238.65 238.59 238.52 238.28 238.14	238.65 238.41 238.60 	236.43 235.75 235.49 235.20 235.02 234.57	229.13 228.91 228.35 228.21 228.02	223.91 223.93 223.83 223.55 223.41 223.24	224.89 224.88 225.10 225.15 225.23	226.80 226.97 227.07 227.11 227.08 227.09	227.79 227.62 227.50 227.51 227.58 227.49	228.60 228.75 228.83 228.91 228.97
LOW	240.72	240.51	240.69	239.31	239.20	239.30	234.35	227.72	225.23	227.11	227.80	228.97
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM	I. WATER Y	EAR OCTOR	ER 1997 T	O SEPTEMB	ER 1998	
			·			AILY LOWES						
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228.97	230.33	231.18	232.15	233.10	234.15	231.63	226.87	229.46	223.96	225.55	225.70
2	228.89	230.45	231.34	232.27	233.33	234.12	231.74	226.88	229.82	223.75	225.67	225.50
3	228.93	230.45	231.35	232.39	233.30	233.81	231.73	226.81	229.82	223.77	225.68	225.59
4	228.97	230.48	231.42	232.22	233.17	233.74	231.56	226.95	229.82	223.72	225.70	225.68
5	229.05	230.54	231.46	232.45	233.40	233.79	231.05	226.93	229.90	223.66	225.52	225.81
6	229.25	230.45	231.39	232.57	233.39	233.77	230.78	227.28	230.01	223.79	225.14	225.96
7	229.02	230.31	231.13	232.51	233.32	233.96	230.41	227.40	229.88	223.94	224.88	225.96
8	229.21	230.62	231.10	232.54	233.36	234.04	230.13	227.52	229.79	224.04	224.83	225.81
9	229.35	230.73	231.54	232.65	233.57	234.07	229.88	227.69	229.82	224.06	224.95	225.66
10	229.30	230.66	231.87	232.65	233.65	234.31	229.65	227.80	229.62	224.14	224.90	225.84
11	229.04	230.60	231.89	232.67	233.68	234.31	229.17	227.76	229.65	224.12	224.92	226.04
12	229.36	230.53	231.88	232.67	233.70	233.87	228.44	227.88	229.78	224.29	224.99	226.07
13	229.60	230.63	231.85	232.67	233.59	233.91	228.38	227.84	229.73	224.35	224.99	225.99
14	229.79	230.92	231.83	232.58	233.56	233.93	228.26	228.08	229.88	224.53	225.01	226.17
15	229.91	230.92	231.74	232.42	233.36	233.84	228.08	228.36	229.86	224.77	224.88	226.25
16	229.95	230.86	231.79	232.45	233.53	233.77	227.98	228.49	229.62	224.87	224.85	226.24
17	229.74	230.76	231.64	232.51	233.57	233.48	227.86	228.53	229.72	224.90	225.03	226.18
18	229.85	230.71	231.83	232.65	233.74	233.70	227.81	228.86	229.68	224.77	225.02	226.16
19	229.95	230.71	232.04	232.60	233.79	233.66	227.81	228.93	229.13	224.88	225.24	226.21
20	230.00	230.64	231.98	232.67	233.76	233.61	227.88	228.95	228.05	224.96	225.34	226.40
21	230.03	230.71	231.82	232.75	233.70	233.55	227.88	228.90	227.42	225.18	225.25	226.45
22	229.85	230.87	232.01	232.77	233.74	233.53	227.82	228.95	226.99	225.36	225.16	226.49
23	229.68	230.84	231.94	232.86	233.95	233.48	227.61	229.06	226.32	225.29	225.16	226.41
24	230.13	230.84	232.12	232.79	233.92	233.30	227.22	229.29	225.66	225.26	225.28	226.40
25	230.21	231.03	232.20	233.02	233.50	233.06	227.12	229.27	225.22	225.33	225.31	226.32
26 27 28 29 30 31	230.07 229.90 230.02 229.95 229.91 230.13	231.02 230.90 231.10 231.20 231.20	232.21 232.18 232.19 232.19 232.40 232.40	233.04 233.04 233.11 233.12 233.02 233.07	233.70 233.97 234.10 	232.74 232.47 232.35 231.97 231.75 231.60	227.29 227.35 227.20 227.07 226.86	229.13 229.24 229.46 229.50 229.46 229.63	224.84 224.70 224.44 224.26 224.19	225.43 225.50 225.47 225.51 225.57 225.54	225.19 225.45 225.53 225.57 225.51 225.66	226.54 226.63 226.59 226.67 226.91
LOW	230.13	231.20	232.40	233.07	234.10	234.31	231.74	229.63	230.01	225.54	225.70	226.91

SITE NUMBER FROM LOCATION MAP.—7.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N3E15DDDA.

SITE ID (STATION NUMBER).—442833103434601.

OTHER IDENTIFIER.—LA-88A and Frawley Ranch Mnls.

LOCATION.—Lat 44°28′34.5″, long 103°43′46.2″, in NE¹/4SE¹/4SE¹/4SE¹/4SE¹/4 sec. 15, T. 6 N., R. 3 E., Hydrologic Unit 10120203, 6 mi east of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 320 ft deep with 273 ft of 5-in. steel casing; open hole from 273 to 320 ft.

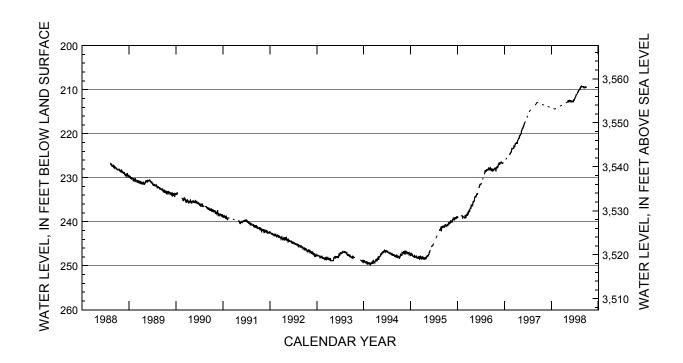
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,767.5 ft above sea level. Measuring point: Top of steel casing, 2.10 ft above land-surface datum.

REMARKS.—Records fair.

PERIOD OF RECORD.—August 1988 to September 1998.

EXTREMES.—Highest daily water level, 209.18 ft below land-surface datum, Sept. 3, 1998; lowest daily water level, 249.67 ft below land-surface datum, Feb. 12-13, 1994.



SITE NUMBER 7—Continued

DAILY	LOWEST VA		EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM,	WATER	YEAR OCTOB	ER 1994 T	O SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	247.97 248.00	246.94 246.99	246.88 246.87	247.59 247.63	247.67 248.05	248.36 248.36	248.08 248.09	248.33 248.15				241.38 241.15
3	248.28	247.11	246.97	247.63	248.22	248.10	248.30	248.15				241.15
4 5	248.28 248.10	247.11 246.99	247.27 247.27	247.56 247.06	247.97 247.96	247.97 247.97	248.30 247.99	248.23 248.19				241.15 241.08
6	247.89	247.08	247.20	247.17	247.95	248.25	248.06	247.96				241.28
7 8	248.17 248.21	247.02 247.09	247.19 247.25	247.29 247.36	248.09 248.05	248.29 248.26	248.07 247.98	247.93				241.29 241.18
9	248.15	247.09	247.20	247.37	247.89	248.04	248.37					241.07
10	247.91	246.93	247.32	247.35	247.87	247.89	248.50					241.06
11 12	247.77 247.86	246.85 246.83	247.06 247.13	247.29 247.47	247.94 247.95	247.89 247.97	248.50 248.39	247.96 247.56				240.90 240.97
13	247.80	240.03	247.13	247.47	247.95	248.26	248.39	247.87				241.14
14	247.65	247.33	246.99	247.62	247.69	248.49	248.10	247.92				241.18
15	247.25	247.33	246.99	247.45	247.78	248.42	248.24	247.92				240.93
16 17	247.49 247.56	246.73 246.74	247.10 247.36	247.46 247.59	248.07 248.04	248.28 248.28	248.36 248.36	247.72 247.70	245.50 245.53		241.71	241.08 241.03
18	247.60	247.09	247.31	247.77		248.20	248.25	247.67	245.53		242.01	241.05
19	247.65	247.00	247.20	247.90	248.26	247.87	248.25	247.66	245.53		242.03	241.15
20	247.65	247.34	247.27	247.94	248.26	247.90	248.13	247.66	245.46		241.92	241.25
21	247.40	247.32	247.38	247.94	248.18	247.80	248.56	247.49	245.42		241.78	241.27
22 23	247.54 247.55	246.94 246.94	247.54 247.48	247.88 247.85	248.00 248.22	248.04 248.15	248.57 248.53	247.43 247.43	245.37 245.39		241.72 241.67	241.13
24	247.53	246.59	247.19	247.81	248.22	247.94	248.43	247.43	245.39		241.38	240.97
25	247.63	246.68	247.24	247.81	248.07	248.28	248.30	247.42	245.28		241.45	240.87
26	247.46	247.13	247.26	247.71	248.07	248.40	248.35	247.07	245.21		241.49	240.72
27 28	247.07 247.15	247.01	247.33 247.33	247.77 248.07		248.50 248.51	248.33 248.22	246.94 246.94			241.35 241.38	240.69 240.71
29	247.13		247.33	248.07	240.30	248.51	248.28	246.95			241.34	240.71
30	247.29	246.93	247.55	247.91		248.35	248.30	246.95			242.15	240.92
31	247.26		247.63	247.70		248.25		246.66			241.53	
LOW	248.28	247.34	247.63	248.07	248.36	248.51	248.57	248.33	245.53		242.15	241.38
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM,			ER 1995 I	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW					ER 1995 T JUN	O SEPTEMB	ER 1996 AUG	SEP
DAY 1					Di	AILY LOWES	T VALUES					SEP 227.80
1 2	OCT 240.95 240.98	NOV 240.38 240.40	DEC 239.15 239.47	JAN 	D2 FEB 	MAR 238.57 238.56	T VALUES APR 237.66 237.31	MAY 235.72 235.53	JUN 233.75 233.80	JUL 231.49 231.48	AUG 228.79 228.68	227.80 227.85
1 2 3	OCT 240.95 240.98 240.97	NOV 240.38 240.40 240.40	DEC 239.15 239.47 239.65	JAN	D2 FEB 	MAR 238.57 238.56 238.56	APR 237.66 237.31 237.62	MAY 235.72 235.53 235.54	JUN 233.75 233.80 233.79	JUL 231.49 231.48 231.48	AUG 228.79 228.68 228.39	227.80 227.85 227.85
1 2	OCT 240.95 240.98	NOV 240.38 240.40	DEC 239.15 239.47	JAN 	D2 FEB 	MAR 238.57 238.56 238.56 238.56	T VALUES APR 237.66 237.31	MAY 235.72 235.53	JUN 233.75 233.80	JUL 231.49 231.48	AUG 228.79 228.68	227.80 227.85
1 2 3 4	OCT 240.95 240.98 240.97 240.82	NOV 240.38 240.40 240.40 240.37	DEC 239.15 239.47 239.65 239.42	JAN 	Di FEB 	MAR 238.57 238.56 238.56 238.56	APR 237.66 237.31 237.62 237.74	MAY 235.72 235.53 235.54 235.62 235.62	JUN 233.75 233.80 233.79 233.77	JUL 231.49 231.48 231.48 231.47	AUG 228.79 228.68 228.39 228.36	227.80 227.85 227.85 227.85
1 2 3 4 5	OCT 240.95 240.98 240.82 241.12 241.12 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41	JAN	FEB 238.61 238.61	MAR 238.57 238.56 238.56 238.72 238.87 239.10	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.12	MAY 235.72 235.53 235.54 235.62 235.62 235.45	JUN 233.75 233.80 233.79 233.77 233.77	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36	227.80 227.85 227.85 227.85 227.82
1 2 3 4 5 6 7 8	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.83	NOV 240.38 240.40 240.37 239.91 240.10 240.26 240.26	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41 239.63	JAN	Di FEB 238.61 238.61 238.68	MAR 238.57 238.56 238.56 238.72 238.87 239.10 239.10	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.12 237.10	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.45 235.21	JUN 233.75 233.80 233.79 233.77 233.77 233.76	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36	227.80 227.85 227.85 227.85 227.82
1 2 3 4 5	OCT 240.95 240.98 240.82 241.12 241.12 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41	JAN	FEB 238.61 238.61	MAR 238.57 238.56 238.56 238.72 238.87 239.10	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.12	MAY 235.72 235.53 235.54 235.62 235.62 235.45	JUN 233.75 233.80 233.79 233.77 233.77	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36	227.80 227.85 227.85 227.85 227.82
1 2 3 4 5 6 7 8 9 10	OCT 240.95 240.98 240.97 240.82 241.12 241.12 241.83 240.79 240.77	NOV 240.38 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41 239.63 239.63 239.47	JAN	238.61 238.62 239.20 239.20	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 238.87 238.63 238.53	APR 237.66 237.31 237.62 237.75 237.62 237.10 237.07 237.03	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.41	JUN 233.75 233.80 233.79 233.77 233.77	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.36 228.36 228.36 228.36 228.36 228.36 228.36 228.36 228.44	227.80 227.85 227.85 227.85 227.82 228.27
1 2 3 4 5 6 7 8 9 10	OCT 240.95 240.98 240.82 241.12 241.12 240.88 240.83 240.79 240.70 240.70	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.99	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.63 239.63 239.63 239.63	JAN	PEB 238.61 238.61 238.64 239.20 239.17	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 238.87 238.63	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.03	MAY 235.72 235.53 235.62 235.62 235.62 235.45 235.41 235.40 235.21	JUN 233.75 233.80 233.77 233.77 233.77	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.36 228.36 228.36 228.36 228.36 228.59 228.53	227.80 227.85 227.85 227.82 228.27 228.29 228.29
1 2 3 4 5 6 7 8 9 10	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.83 240.79 240.77 240.70 240.77	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 239.99 240.08	DEC 239.15 239.47 239.65 239.49 239.48 239.63 239.63 239.47 239.14 239.04	JAN	238.61 238.61 238.64 239.20 239.17 238.89	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 238.87 238.63 238.53 238.53	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 236.80	MAY 235.72 235.53 235.54 235.62 235.55 235.45 235.41 235.40 235.41 235.40	JUN 233.75 233.80 233.79 233.77 233.77	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.59 228.53 228.44 228.44	227.80 227.85 227.85 227.85 227.82 228.27 228.27 228.29 228.24 227.97
1 2 3 4 5 6 7 8 9 10	OCT 240.95 240.98 240.82 241.12 241.12 240.88 240.83 240.79 240.70 240.70	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.99	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.63 239.63 239.63 239.63	JAN	PEB 238.61 238.61 238.64 239.20 239.17	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 238.87 238.63	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03	MAY 235.72 235.53 235.62 235.62 235.62 235.45 235.41 235.40 235.21	JUN 233.75 233.80 233.79 233.77 233.77 233.76	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.36 228.36 228.36 228.36 228.36 228.59 228.53	227.80 227.85 227.85 227.82 228.27 228.29 228.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.79 240.77 240.77 240.70 240.92 240.90 240.69	NOV 240.38 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 240.16 240.26 239.99 240.08 240.05 239.99	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41 239.63 239.63 239.04 239.04 239.04 239.28 239.28	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.89 238.89 238.89	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.53 238.54 238.45 238.54 238.54 238.47 238.26	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79	MAY 235.72 235.53 235.54 235.62 235.62 235.55 235.45 235.40 235.41 235.40 235.21 235.21 235.55 235.21 235.40 235.41	JUN 233.75 233.80 233.77 233.77 233.76	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.39 228.39	227.80 227.85 227.85 227.82 228.27 228.29 228.29 228.24 227.97 227.77 227.80
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 240.95 240.98 240.82 241.12 241.12 240.88 240.83 240.79 240.77 240.77 240.90 240.63 240.63	NOV 240.38 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94	DEC 239.15 239.47 239.65 239.42 239.49 239.63 239.63 239.63 239.04 239.04 239.28 239.28	JAN	238.61 238.61 238.62 239.20 239.17 238.89 238.89 238.89 238.89 238.89	AILY LOWES' MAR 238.57 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.54 238.45 238.54 238.54 238.54 238.54 238.27	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 236.80 237.02 237.02	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.508 234.57 234.53	JUN 233.75 233.80 233.77 233.77 233.76	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.36 228.36 228.36 228.39 228.39 228.48 228.48 228.39	227.80 227.85 227.85 227.82 228.27 228.27 228.29 228.24 227.97 227.80 227.82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.79 240.77 240.77 240.70 240.92 240.90 240.69	NOV 240.38 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 240.16 240.26 239.99 240.08 240.05 239.99	DEC 239.15 239.47 239.65 239.42 239.49 239.48 239.41 239.63 239.63 239.04 239.04 239.04 239.28 239.28	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.89 238.89 238.89	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.53 238.54 238.45 238.54 238.54 238.47 238.26	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79	MAY 235.72 235.53 235.54 235.62 235.62 235.55 235.45 235.40 235.41 235.40 235.21 235.21 235.55 235.21 235.40 235.41	JUN 233.75 233.80 233.77 233.77 233.76	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.39 228.39	227.80 227.85 227.85 227.82 228.27 228.29 228.29 228.24 227.97 227.77 227.80
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.83 240.77 240.77 240.77 240.92 240.90 240.69	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94	DEC 239.15 239.47 239.65 239.49 239.48 239.63 239.63 239.67 239.14 239.04 239.04 239.28 239.28	JAN	238.61 238.61 238.62 239.20 239.20 239.27 238.89 238.89 238.89 238.89	MAR 238.57 238.56 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.54 238.54 238.54 238.54 238.54 238.54 238.55 238.55 238.55	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.12 237.10 237.07 237.03 236.80 236.80 237.02 237.02 237.02	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.21 235.08 234.57 234.53	JUN 233.75 233.80 233.79 233.77 233.76 232.02	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.48 228.48 228.49 228.39	227.80 227.85 227.85 227.85 227.82 228.27 228.27 228.29 227.77 227.80 227.82 228.17 228.18
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21	OCT 240.95 240.98 240.97 240.82 241.12 240.88 240.77 240.77 240.77 240.92 240.90 240.69 240.63 240.59 240.88 240.88 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 240.05 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.94 239.94	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.67 239.14 239.04 239.28 239.27 239.39 239.39 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.89 238.87 238.89	MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.53 238.54 238.54 238.54 238.54 238.54 238.54 238.55 238.55 238.55 238.55	APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.41 236.50	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.21 235.21 235.20 235.21 234.40 235.21 235.21 235.21 235.21 234.57 234.53	JUN 233.75 233.80 233.77 233.77 233.76 232.02 232.13 232.12 231.97	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.36 228.44 228.48 228.48 228.48 228.48 228.48 228.27	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.77 227.80 227.82 228.17 228.18 228.14 228.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.77 240.77 240.77 240.92 240.90 240.63 240.56 240.88 240.88 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.94 239.87 239.94 239.87	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.63 239.04 239.04 239.04 239.28 239.28 239.27 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.62 239.20 239.20 239.27 238.89 238.89 238.89 238.89	AILY LOWES MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.53 238.45 238.54 238.54 238.47 238.26 238.27 238.50 238.55 238.55 238.55	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 236.80 237.02 237.02 237.02 236.79 236.31 236.34 236.40 236.40 236.50 236.50	MAY 235.72 235.54 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.21 235.08 234.57 234.53	JUN 233.75 233.80 233.77 233.77 233.76 232.02 232.13 232.12 231.97 231.97	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.36 228.36 228.36 228.36 228.36 228.36 228.39 228.48 228.48 228.48 228.48 228.27 228.25 228.27 228.30	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.97 227.77 227.80 227.82 228.17 228.18 228.10 228.00 228.00 228.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 240.95 240.98 240.97 240.82 241.12 240.88 240.77 240.77 240.77 240.92 240.69 240.63 240.59 240.88 240.88 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.94 239.94 239.94 239.94 239.94 239.95	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.63 239.47 239.14 239.04 239.28 239.28 239.27 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.97 238.89	AILY LOWES' MAR 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.53 238.45 238.54 238.54 238.54 238.54 238.55 238.55 238.55 238.55 238.55 238.77	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.41 236.50 236.53 236.53 236.53	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.21 235.40 235.21 234.40 235.21 235.40 235.21 234.53	JUN 233.75 233.80 233.79 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.69	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.59 228.44 228.48 228.48 228.48 228.28 228.27 228.27 228.28 228.27	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.77 227.80 227.82 228.17 228.18 228.14 228.00 228.02 228.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.77 240.77 240.77 240.90 240.63 240.69 240.88 240.88 240.88	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 240.26 239.71 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.94 239.94 239.94 239.94 239.94 239.94 239.963	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.63 239.47 239.14 239.04 239.28 239.28 239.27 239.39 239.22 239.13	JAN	238.61 238.61 238.62 238.64 239.20 239.20 239.17 238.89 238.89 238.89	AILY LOWES' MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.54 238.54 238.54 238.54 238.54 238.55 238.55 238.55 238.55 238.70	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.40 236.41 236.50 236.53 236.53	MAY 235.72 235.53 235.54 235.62 235.55 235.45 235.41 235.40 235.21 235.08 234.57 234.53 234.49 234.33 234.33 234.33 234.31	JUN 233.75 233.80 233.77 233.77 233.76 232.02 232.13 232.12 231.97 231.97 231.69	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.48 228.48 228.48 228.30 228.27 228.27 228.26	227.80 227.85 227.85 227.85 227.82 228.27 228.27 228.29 227.77 227.80 227.80 227.82 228.14 228.00 228.00 228.36
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	OCT 240.95 240.98 240.97 240.82 241.12 241.88 240.79 240.77 240.92 240.69 240.63 240.59 240.56 240.88 240.88 240.48 240.54 240.54 240.54	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.87 239.94 240.08 240.08 240.08 240.08	DEC 239.15 239.47 239.65 239.49 239.48 239.63 239.63 239.67 239.14 239.04 239.28 239.28 239.27 239.13 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.63 238.64 239.20 239.17 238.89 238.97 238.86 238.81	AILY LOWES' MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.54 238.45 238.54 238.54 238.54 238.55 238.55 238.55 238.55 238.72 238.26 238.77 238.20 238.30	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.41 236.53 236.53 236.53 236.53 236.03	MAY 235.72 235.53 235.54 235.62 235.62 235.55 235.45 235.41 235.40 235.21 235.08 234.57 234.53 234.33 234.33 234.33 234.33 234.33 234.33 234.33 234.33	JUN 233.75 233.80 233.79 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.50	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.53 228.44 228.34 228.48 228.28 228.27 228.27 228.27 228.27 228.26 228.21 228.21	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.77 227.80 227.82 228.17 228.18 228.14 228.00 228.36 228.34 228.13
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	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.77 240.77 240.77 240.70 240.79 240.69 240.63 240.59 240.56 240.88 240.88 240.48 240.54 240.54 240.54 240.54 240.54	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.94 239.87 239.94 240.08	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.63 239.47 239.14 239.04 239.28 239.28 239.27 239.39 239.39 239.39 239.39 239.39 239.13	JAN	238.61 238.61 238.68 238.64 239.20 239.27 238.89 238.89 238.89 238.89 238.97	AILY LOWES MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 239.10 238.87 238.63 238.53 238.54 238.54 238.54 238.54 238.54 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.55	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.40 236.53 236.53 236.53 236.53 236.03	MAY 235.72 235.53 235.54 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.21 235.08 234.57 234.53 234.49 234.33 234.33 234.33 234.33 234.33 234.33	JUN 233.75 233.80 233.77 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.50 231.50	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.39 228.28 228.20 228.25 228.27 228.30 228.27 228.30 228.27 228.10 228.21 228.11 228.11	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.97 227.77 227.80 227.82 228.14 228.00 228.02 228.36 228.34 228.13 228.10 228.10
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 240.95 240.98 240.97 240.82 241.12 241.82 240.77 240.77 240.77 240.92 240.69 240.63 240.59 240.54 240.54 240.54 240.54 240.54 240.54 240.52 240.52 240.52 240.52 240.52	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.87 239.94 240.08 240.08 240.08 240.08	DEC 239.15 239.47 239.65 239.49 239.48 239.63 239.63 239.67 239.14 239.04 239.28 239.28 239.28 239.29 239.13 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.97 238.86 238.81	AILY LOWES' MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.45 238.54 238.45 238.54 238.54 238.55 238.55 238.55 238.16 238.77 238.26 238.77 238.20 238.77 238.22 238.09 237.83 237.83	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.41 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.26	MAY 235.72 235.53 235.54 235.62 235.55 235.45 235.41 235.40 235.21 235.40 235.21 235.40 235.41 234.33 234.33 234.21 234.30 234.38 234.38 234.38 234.39	JUN 233.75 233.80 233.79 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.50 231.50 231.50 231.50 231.50	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.59 228.53 228.44 228.34 228.48 228.48 228.28 228.27 228.27 228.26 228.21 228.11 228.11 228.11 228.11	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.77 227.80 227.82 228.17 228.18 228.10 228.02 228.36 228.34 228.13 228.10 228.10 228.11 228.10
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	OCT 240.95 240.98 240.97 240.82 241.12 241.12 240.88 240.77 240.77 240.77 240.70 240.77 240.50 240.59 240.59 240.59 240.54 240.54 240.54 240.54 240.52 240.42	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 240.08 240.05 239.99 239.94 239.94 239.87 239.94 239.87 239.94 240.08 240.08 240.03 239.63 239.63 239.63 239.56 239.52	DEC 239.15 239.47 239.65 239.49 239.48 239.41 239.63 239.63 239.47 239.14 239.04 239.28 239.27 239.39 239.39 239.39 239.39 239.39 239.39 239.18 239.18 239.18 239.18	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.89 238.89 238.87 238.81	AILY LOWES' MAR 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 239.10 238.87 238.63 238.53 238.54 238.54 238.54 238.54 238.54 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.55 238.77 238.20 238.37 238.36	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 237.02 237.02 237.02 236.31 236.34 236.34 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53	MAY 235.72 235.53 235.62 235.62 235.62 235.45 235.41 235.40 235.41 235.40 235.21 235.08 234.57 234.53 234.33 234.33 234.33 234.33 234.33 234.33 234.38 234.38	JUN 233.75 233.80 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.50 231.50 231.50 231.51 231.51 231.51	JUL 231.49 231.48 231.47	AUG 228.79 228.36 228.36 228.36 228.36 228.36 228.36 228.59 228.53 228.44 228.48 228.39 228.28 228.27 228.25 228.27 228.21 228.11 228.11 228.11 228.11 228.11	227.80 227.85 227.85 227.85 227.82
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 240.95 240.98 240.97 240.82 241.12 241.82 240.77 240.77 240.77 240.92 240.69 240.63 240.59 240.54 240.54 240.54 240.54 240.54 240.54 240.52 240.52 240.52 240.52 240.52	NOV 240.38 240.40 240.40 240.37 239.91 240.10 240.26 239.71 240.16 240.16 239.99 240.08 240.05 239.99 239.94 239.94 239.94 239.87 239.94 240.08 240.08 240.08 240.08	DEC 239.15 239.47 239.65 239.49 239.48 239.63 239.63 239.67 239.14 239.04 239.28 239.28 239.28 239.29 239.13 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39 239.39	JAN	238.61 238.61 238.68 238.64 239.20 239.17 238.89 238.97 238.86 238.81	AILY LOWES' MAR 238.57 238.56 238.56 238.56 238.72 238.87 239.10 239.10 239.10 238.87 238.63 238.45 238.54 238.45 238.54 238.54 238.55 238.55 238.55 238.16 238.77 238.26 238.77 238.20 238.77 238.22 238.09 237.83 237.83	T VALUES APR 237.66 237.31 237.62 237.74 237.75 237.62 237.10 237.07 237.03 236.80 236.80 237.02 237.02 236.79 236.31 236.34 236.41 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.53 236.26	MAY 235.72 235.53 235.54 235.62 235.55 235.45 235.41 235.40 235.21 235.40 235.21 235.40 235.41 234.33 234.33 234.21 234.30 234.38 234.38 234.38 234.39	JUN 233.75 233.80 233.79 233.77 233.76 232.02 232.13 232.12 231.97 231.69 231.50 231.50 231.50 231.50 231.50	JUL 231.49 231.48 231.47	AUG 228.79 228.68 228.39 228.36 228.36 228.36 228.59 228.53 228.44 228.34 228.48 228.48 228.28 228.27 228.27 228.26 228.21 228.11 228.11 228.11 228.11	227.80 227.85 227.85 227.85 227.82 228.27 228.29 228.24 227.77 227.80 227.82 228.17 228.18 228.14 228.00 228.36 228.34 228.13 228.10 228.10 228.13 228.10 228.13

SITE NUMBER 7—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITT. ATIG SEP 227.76 228.44 226.63 223.35 222.19 220.50 218.05 ___ 228.61 227.76 226.59 ------223.35 222.19 220.36 217.95 ------2 ___ ___ ___ e213.3 227.75 223.41 222.19 220.36 217.93 ---228.40 226.59 228.18 227.46 226.59 ___ ___ 223.41 221.90 220.36 217.93 ___ 5 228.19 227.46 226.53 ------223.41 221.98 220.32 217.80 ------___ 228.32 227.45 227.81 226 42 ___ ___ 223.41 222.18 220.10 217.62 217.50 ___ ___ ___ 220.10 226.42 ------223.41 222.18 ---8 228.18 10 228.34 227.61 226.42 ___ ___ 223.34 222.20 220.10 ___ ___ ___ 12 228.10 227.46 226 58 ___ ___ 223.31 222.21 219.94 ___ ---___ e212.9 227.46 227.30 228.11 226.58 ---224.56 223.23 221.94 219.49 ------13 ------226.63 ---223.23 221.54 219.34 ___ 224.60 15 228.10 226.88 226.85 ---224.62 223.23 221.47 219.34 ___ 227.94 226.88 226.78 ___ 224.62 222.79 221.47 219.34 ___ 17 227.94 226.89 226.79 ---224.35 222.85 221.47 219.34 --e214.82 ------227.94 ---18 226.89 224.32 222.85 221.35 218.99 ___ ------226.80 ---227.73 223.01 218.99 19 226.81 224.32 221.28 20 228.01 226.76 ___ 224.16 223.01 221.15 218.87 ___ ___ 224.16 222.86 22 228.01 226.99 ___ ___ 224.16 222.92 221.05 218 85 ___ ___ ___ ___ 226.91 226.92 ---218.85 ---23 228.00 ---224.16 222.92 221.05 ---------222.50 221.00 218.80 24 228.00 224.16 25 227.69 226.92 ---224.16 222.50 221.00 218.48 26 228.47 223.82 222.50 27 228.50 226.92 ------223.55 222.28 221.00 218.48 ------------28 228.38 226.77 ___ ___ 223 35 222.26 220 41 218.48 ___ ___ ___ ___ 227.76 ------------29 226.63 222.26 218.48 30 227.76 226.69 ___ ------222.26 220.56 218.44 ___ ___ 31 227.76 ---------222.26 218.33 ------LOW 228.61 227.81 226.85 224.62 223.41 222.21 220.50 218.05 214.82 213.30 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES OCT NOV DEC DAY JAN FEB MAR APR MAY JUN JUL AUG SEP 212.53 212.15 210.21 209.27 ------------------212.76 212.06 209.27 ------210.22 ___ 212.76 212.70 3 ___ ___ ___ ___ ___ ___ 212.01 210 22 209.18 ------------------212.87 211.95 ---210.22 209.40 5 212.85 212.76 211.77 210.22 209.40 212.79 212.76 6 211.72 209.40 209.40 ___ ---___ 212.79 212.75 211.72 ___ 212.77 212.75 211.72 211.63 8 ---------------------212.62 209 85 209.35 ---212.65 209.83 209.23 10 212.75 212.57 211.54 209.52 11 212.67 212.49 211.43 209 54 ------212.50 212.64 211.31 212.47 212.38 212.64 212.75 211.15 211.12 13 ___ ___ ___ ___ ___ ___ ___ 209 61 14 ___ 209.83 209.61 15 212.64 212.75 211.15 209.64 209.61 209.61 212.69 212.53 209.44 16 211.24 ___ ___ 18 ___ ___ ___ ___ ___ ___ ___ 212.70 212.77 212.63 211.04 209 47 209.38 ---------------------212.64 209.43 209.37 19 ---20 212.71 212.63 209.45 209.37 209.45 21 212.56 212.71 209.37 22 ___ ___ ___ ---___ ___ 212.41 212.74 ---209.45 209.42 212.60 212.36 23 ___ ------------------212.41 209.41 209.43 24 ___ ___ ___ 212.41 210.72 209.23 209.43 25 212.54 212.29 210.63 209.28 209.35 26 212.50 212.23 210.63 209.32 209.34 e214.39 28 ___ ___ ___ ___ ___ ___ 212.49 212.32 210.42 209 27 209.42 ------------------212.56 210.39 209.27 29 ---212.31 209.46 212.55 209.27 212.35 210.45 209.64 31 ___ ---------------212.55 209.27 ---210.43 LOW 214.39 212.87 212.76 212.15 210.22 209.64

e Estimated

SITE NUMBER FROM LOCATION MAP.—8.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E19DABA2.

SITE ID (STATION NUMBER).—442802103544602.

OTHER IDENTIFIER.—LA-96C and Tinton Road Mnls.

LOCATION.—Lat 44°27′59.6″, long 103°54′49.2″, in NE¹/4NW¹/4NE¹/4SE¹/4 sec. 19, T. 6N., R. 2 E., Hydrologic Unit 10120203, 2 mi south of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 320 ft deep with 249 ft of 5-in. steel casing; open hole from 249 to 320 ft.

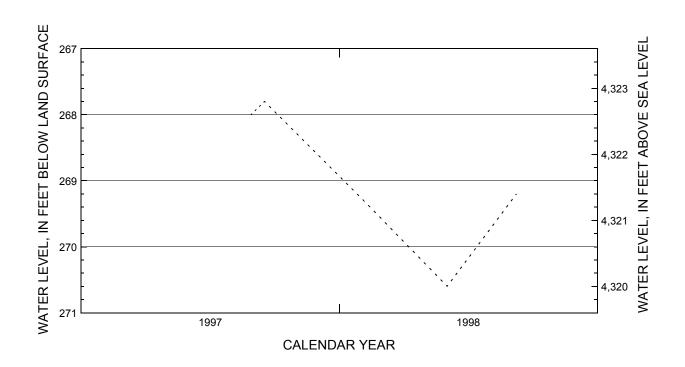
INSTRUMENTATION.—None.

DATUM.—Elevation of land-surface datum is 4,590.6 ft above sea level. Measuring point: Top of steel casing, 1.7 ft above land-surface datum.

REMARKS.—No recorder.

PERIOD OF RECORD.—August 1997 to September 1998.

EXTREMES.—Highest instantaneous water level, 267.8 ft below land-surface datum, Sept. 17, 1997; lowest water level, 270.6 ft below land-surface datum, June 2, 1998.



SITE NUMBER 8-Continued WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		WATER LEVEI	L, IN FEE	L BETOM		CE DATUM, LLY LOWEST		OCTOE	BER 1996 TO	SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3 4												
5												
6												
7												
8 9												
10												
11												
12												
13 14												
15												
16												
17												e267.8
18												
19 20												
20												
21												
22												
23 24												
25												
26												
27												
28 29											e268.0	
30												
31												
LOW											268.00	267.80
		WATER LEVEI	L, IN FEE	T BELOW		CE DATUM, LLY LOWEST		OCTOE	BER 1997 TO	SEPTEME	BER 1998	
DAY	OCT	WATER LEVEI	DEC	T BELOW				OCTOE	BER 1997 TO	SEPTEME JUL	BER 1998 AUG	SEP
DAY 1	OCT				DAI	LLY LOWEST	VALUES					SEP
1 2		NOV 	DEC	JAN 	DA1 FEB 	MAR	APR	MAY	JUN e270.6	JUL 	AUG 	
1 2 3		NOV 	DEC 	JAN 	DAI FEB 	MAR	APR	MAY	JUN e270.6	JUL 	AUG 	
1 2		NOV 	DEC 	JAN 	DA1 FEB 	MAR	APR	MAY	JUN e270.6	JUL 	AUG 	
1 2 3 4	 	NOV 	DEC	JAN 	FEB e269.3	MAR	APR	MAY 	JUN e270.6 	JUL 	AUG	
1 2 3 4 5	 	NOV 	DEC	JAN 	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL 	AUG	====
1 2 3 4 5	 	NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	 e269.2
1 2 3 4 5		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	====
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	 e269.2
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10	 	NOV	DEC	JAN	e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
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		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
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		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
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		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2
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		NOV	DEC	JAN	DAI FEB e269.3	MAR	APR	MAY	JUN e270.6	JUL	AUG	e269.2

e Estimated

LOW

78

--- 270.60

--- 269.20

--- 269.30

SITE NUMBER FROM LOCATION MAP.—9.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E19DABA.

SITE ID (STATION NUMBER).—442802103544601.

OTHER IDENTIFIER.—LA-96B and Tinton Road Mdsn.

LOCATION.—Lat 44°27′59.6″, long 103°54′49.2″, in NE¹/4NW¹/4NE¹/4SE¹/4 sec. 19, T. 6N., R. 2 E., Hydrologic Unit 10120203, 2 mi south of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,100 ft deep with 580 ft of 5-in. steel casing; open hole from 580 to 1,100 ft.

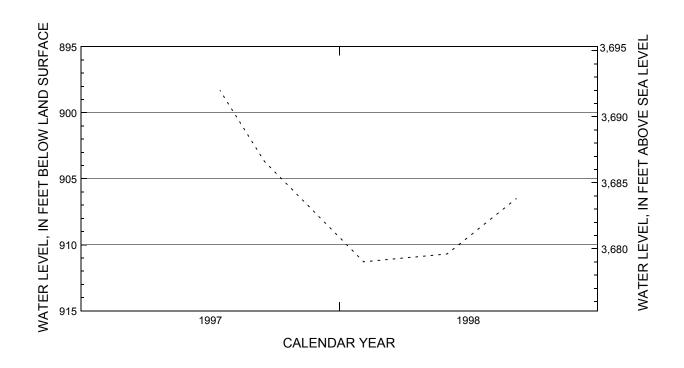
INSTRUMENTATION.—None.

DATUM.—Elevation of land-surface datum is 4,590.3 ft above sea level. Measuring point: Top of steel casing, 1.8 ft above land-surface datum.

REMARKS.—No recorder.

PERIOD OF RECORD.—May 1997 to September 1998.

EXTREMES.—Highest instantaneous water level, 898.3 ft below land-surface datum, July 16, 1997; lowest water level, 911.3 ft below land-surface datum, Feb. 4, 1998.



SITE NUMBER 9—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ------___ ---------------___ --___ ---___ ------___ ---___ 5 ___ ___ ___ ___ --8 ___ 10 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 12 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------13 ------___ ___ ___ ___ ___ 15 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ e898.3 ------------___ -----------------e903.7 ------___ ___ 18 ---___ ---___ ---___ ---___ ___ ------20 ------___ ---___ ___ ---___ ---___ ---2.2 ---------------------------------23 ------------___ 25 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 27 ___ ___ ___ ___ ___ ___ ___ ___ ___ ---___ ___ 28 ---------------------------------------30 ---------31 ---------------------------------LOW ------------898.30 903.70 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 ___ ___ ___ ___ ___ ___ ___ ___ e910.7 ___ ___ ___ --------------------------------e911.3 ___ 5 ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------------___ ___ ___ ___ ---___ ___ -----e906.5 8 ------------___ 10 ___ ---------------11 12 ------------------------___ ---------------___ ___ ------13 ---___ ------------___ 15 ___ ___ ___ ___ ___ ___ ___ 17 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 18 ------------------------------------___ ___ ___ ___ 20 ___ ___ ___ ___ ___ ___ ___ ___ ------22 ------------------------------23 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------25 ---------------26 27 28 ------------------___ ---------------___ 29 30 ___ ___ ___ ___ ___ ___ ___ 31 ------------------------------------LOW ___ ___ ___ ___ 911.30 ___ ___ ___ 910.70 ___ ___ 906.50

e Estimated

SITE NUMBER FROM LOCATION MAP.—10.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E14BCCC2.

SITE ID (STATION NUMBER).—442854103505602.

OTHER IDENTIFIER.—LA-88C and Spearfish GC Mdsn.

LOCATION.—Lat 44°28′54.4″, long 103°50′53.6″, in SW¹/4SW¹/4SW¹/4SW¹/4SW¹/4 sec. 14, T. 6 N., R. 2 E., Hydrologic Unit 10120203, at Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 680 ft deep with 570 ft of 5-in. steel casing; open hole from 570 to 680 ft.

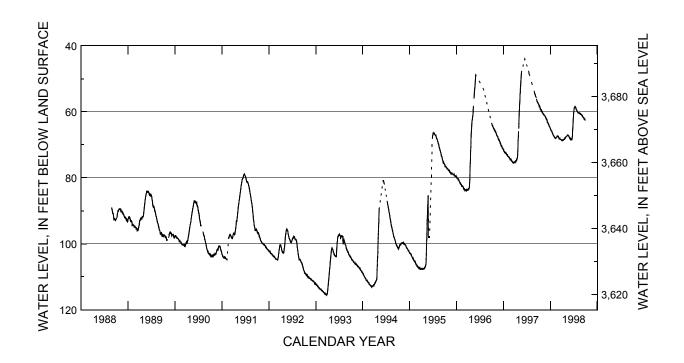
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,735.4 ft above sea level. Measuring point: Top of steel casing, 1.75 ft above land-surface datum.

REMARKS.—Records prior to February 1991 fair. Air pumping in February 1991 may have caused change in water level of about 7 ft. Records since pumping are good. Highest water level was estimated. The ADR was not operating properly at the peak, and no gage readings were recorded.

PERIOD OF RECORD.—August 1988 to September 1998.

EXTREMES.—Highest daily water level, 44 ft (estimated) below land-surface datum, June 16, 1997; lowest daily water level, 115.48 ft below land-surface datum, Mar. 28, 1993.



SITE NUMBER 10—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	101.17 101.19 101.51 101.57 101.48	99.60 99.84 99.81 99.77 99.85	100.40 100.46 100.58 100.75 100.88	102.74 102.88 102.92 102.98 102.71	104.66 104.91 105.08 105.05 105.11	106.84 106.78 106.68 106.76 106.79	107.57 107.60 107.73 107.71 107.49	107.28 107.01 107.01 106.98 106.91	98.07 98.07 98.07 98.07 98.07	67.13 66.81 66.51 66.49 66.55	68.10 68.19 68.39 68.44 68.53	72.40 72.56 72.76 72.91 73.09
6 7 8 9 10	101.22 101.50 101.58 101.35 101.14	99.85 99.83 99.84 99.83 99.69	100.93 101.03 101.10 101.21 101.30	102.81 102.95 103.04 103.07 103.07	105.18 105.31 105.30 105.30 105.40	107.04 107.16 107.13 107.03 107.05	107.51 107.51 107.48 107.72 107.79	106.65 106.52 106.34 106.13 105.78	98.07 	66.60 66.61 66.64 66.56 66.58	68.56 68.69 69.00 69.15 69.22	73.43 73.45 73.52 73.63 73.63
11 12 13 14 15	100.97 100.98 101.01 100.82 100.48	99.65 99.62 99.87 100.05 100.04	101.25 101.35 101.35 101.43 101.48	103.15 103.34 103.47 103.47 103.39	105.52 105.63 105.64 105.48 105.60	107.05 107.21 107.46 107.55 107.55	107.78 107.72 107.72 107.50 107.63	104.70 103.19 101.65 100.44 98.75	 	66.43 66.51 66.65 66.77 66.84	69.33 69.53 69.66 69.76 69.80	73.83 73.97 74.25 74.42 74.55
16 17 18 19 20	100.57 100.52 100.51 100.46 100.38	99.74 99.81 100.01 100.01 99.96	101.55 101.71 101.72 101.77 101.86	103.52 103.65 103.80 103.92 104.03	105.80 105.82 106.06 106.08 106.22	107.59 107.61 107.52 107.41 107.44	107.76 107.66 107.63 107.58 107.44	97.06 95.56 94.09 92.84 91.63	 	66.95 66.96 66.95 67.01 67.07	69.98 70.12 70.55 70.70 70.73	74.72 74.82 75.04 75.15 75.37
21 22 23 24 25	100.27 100.33 100.35 100.35	100.21 100.26 100.27 100.16 100.17	102.00 102.11 102.07 101.99 102.16	104.04 104.10 104.13 104.29 104.29	106.16 106.25 106.44 106.44 106.36	107.35 107.51 107.54 107.46 107.69	107.72 107.72 107.67 107.60 107.47	90.31 89.33 88.33 87.31 86.39	 	67.11 67.18 67.19 67.31 67.36	70.85 71.04 71.14 71.23 71.52	75.47 75.32 75.49 75.52 75.53
26 27 28 29 30 31	100.07 99.89 99.91 99.99 99.99	100.00 100.09 100.33 100.39 100.38	102.18 102.36 102.36 102.52 102.66 102.73	104.27 104.49 104.72 104.74 104.67 104.60	106.54 106.76 106.82	107.76 107.83 107.83 107.82 107.70 107.60	107.55 107.47 107.36 107.40 107.31	85.37 98.07 98.07 98.07 98.07 98.07	 67.85 67.61 67.41	67.33 67.56 67.76 67.76 68.03 68.12	71.62 71.77 71.85 71.89 72.18 72.30	75.57 75.70 75.71 75.90 76.02
LOW	101.58	100.39	102.73	104.74	106.82	107.83	107.79	107.28	98.07	68.12	72.30	76.02
		WATER LEV	/EL, IN FE	ET BELOW	LAND-SURF		1, WATER Y ST VALUES		ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAY 1 2 3 4 5	OCT 76.14 76.20 76.13 76.22 76.41	NOV 77.83 77.79 77.69 77.90 78.02	78.83 78.92 	JAN 79.96 79.96 79.71 80.07 80.16	FEB 81.89 81.98 82.00 82.00 82.00				JUN	JUL 	AUG	SEP
1 2 3 4	76.14 76.20 76.13 76.22	77.83 77.79 77.69 77.90	78.83 78.92 	79.96 79.96 79.71 80.07	81.89 81.98 82.00 82.00	MAR 83.26 83.32 83.33 83.39	APR 83.50 83.57 83.69 83.70	MAY 63.19 62.80 62.55 62.36		 	 	
1 2 3 4 5 6 7 8 9	76.14 76.20 76.13 76.22 76.41 76.36 76.44 76.56 76.59	77.83 77.79 77.69 77.90 78.02 77.91 77.85 78.12 78.04	78.83 78.92 78.97 78.97 79.15 79.17	79.96 79.96 79.71 80.07 80.16 80.17 80.17 80.17 80.18	81.89 81.98 82.00 82.00 82.00 81.99 82.06 82.07 82.25	MAR 83.26 83.32 83.33 83.39 83.62 83.80 83.90 83.90 83.73	APR 83.50 83.57 83.69 83.70 83.69 83.44 83.37 83.32 83.27	MAY 63.19 62.80 62.55 62.36 62.01 61.71 61.40 61.25 60.96	====	 	 	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	76.14 76.20 76.13 76.22 76.41 76.36 76.44 76.56 76.59 76.59 76.74 76.86 76.86	77.83 77.79 77.69 77.90 78.02 77.91 77.85 78.12 78.04 78.22 78.34 78.33 78.43	78.83 78.92 78.97 78.97 79.15 79.17 79.17 79.02 78.95 78.90 79.12	79.96 79.96 79.71 80.07 80.16 80.17 80.17 80.18 80.27 80.33 80.33 80.38 80.51	81.89 81.98 82.00 82.00 82.00 82.00 82.06 82.06 82.07 82.25 82.55 82.55	MAR 83.26 83.32 83.39 83.62 83.80 83.90 83.84 83.73 83.69 83.67 83.64 83.84 83.84	APR 83.50 83.57 83.69 83.70 83.69 83.44 83.37 83.32 83.27 83.03	MAY 63.19 62.80 62.55 62.36 62.01 61.71 61.40 61.25 60.96 60.33				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	76.14 76.20 76.13 76.22 76.41 76.36 76.44 76.56 76.59 76.74 76.86 76.86 76.84 76.83 76.92 77.03 77.25	77.83 77.79 77.69 77.90 78.02 77.91 77.85 78.12 78.04 78.22 78.34 78.33 78.43 78.43 78.69 78.74 78.55	78.83 78.92 78.97 78.97 79.15 79.17 79.17 79.02 78.95 78.91 79.13 79.13 79.13 79.37 79.36	79.96 79.96 79.71 80.07 80.16 80.17 80.17 80.18 80.27 80.33 80.28 80.51 80.43 80.29 80.76 80.76 80.67	81.89 81.98 82.00 82.00 82.00 82.00 81.99 82.06 82.07 82.25 82.55 82.63 82.59 82.61 82.76 82.63 82.59	MAR 83.26 83.32 83.39 83.62 83.80 83.90 83.84 83.73 83.69 83.67 83.64 83.79 83.76 83.93 84.06	APR 83.50 83.57 83.69 83.70 83.69 83.44 83.37 83.27 83.03 82.99 82.39 81.61 80.54 79.19 77.77 76.72 75.64 74.54	MAY 63.19 62.80 62.55 62.36 62.01 61.71 61.40 61.25 60.96 60.33 59.60 58.60 55.66 54.90				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	76.14 76.20 76.13 76.22 76.41 76.36 76.44 76.56 76.59 76.74 76.86 76.84 76.83 76.92 77.03 77.26 77.25 77.04	77.83 77.79 77.69 77.90 78.02 77.91 77.85 78.12 78.04 78.22 78.34 78.33 78.43 78.43 78.69 78.69	78.83 78.92 78.97 78.97 79.15 79.17 79.17 79.02 78.95 79.13 79.21 79.39 79.37 79.36 79.36 79.55 79.55	79.96 79.96 79.71 80.07 80.16 80.17 80.18 80.27 80.32 80.33 80.28 80.51 80.43 80.29 80.76 80.76 80.71 80.99 80.99 80.99 81.06 81.08	81.89 81.98 82.00 82.00 82.00 82.00 81.99 82.06 82.07 82.25 82.55 82.63 82.59 82.61 82.76 82.66 82.63 82.51 82.76 82.66 82.63 82.51 82.76	MAR 83.26 83.32 83.33 83.62 83.80 83.90 83.84 83.73 83.66 83.79 83.76 83.84 83.86 83.79 83.76 83.88 83.67 83.76 83.88	APR 83.50 83.57 83.69 83.70 83.69 83.44 83.37 83.03 82.99 82.39 81.61 80.54 79.19 77.77 76.72 75.64 74.54 73.20 72.03 70.73 69.38 68.11	MAY 63.19 62.80 62.55 62.36 62.01 61.71 61.40 61.25 60.96 60.33 59.60 58.60 55.66 54.90 54.31 53.75 53.29 52.83 52.61				
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 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	76.14 76.20 76.13 76.22 76.41 76.36 76.44 76.56 76.59 76.74 76.86 76.84 76.83 76.92 77.03 77.25 77.04 77.25 77.04 77.27 77.42 77.58 77.60 77.70	77.83 77.79 77.69 77.90 78.02 77.91 77.85 78.12 78.04 78.22 78.34 78.33 78.43 78.43 78.69 78.74 78.65 78.65 78.65 78.65 78.65 78.50 78.55	78.83 78.92 78.97 78.97 79.15 79.17 79.02 78.95 78.90 79.12 79.13 79.21 79.39 79.36 79.55 79.55 79.55 79.55 79.55 79.55 79.55 79.58	79.96 79.96 79.71 80.07 80.16 80.17 80.18 80.27 80.32 80.33 80.28 80.51 80.43 80.29 80.76 80.76 80.71 80.99 81.06 81.08 81.20 81.32 81.36 81.44 81.65	81.89 81.98 82.00 82.00 82.00 82.00 81.99 82.06 82.07 82.25 82.55 82.63 82.59 82.61 82.61 82.63 82.54 82.61 82.63 82.54 82.63 82.54 82.63 82.54 82.73	MAR 83.26 83.32 83.39 83.62 83.80 83.90 83.84 83.67 83.64 83.84 83.86 83.79 83.76 83.93 84.06 83.95 83.86 83.77 83.67 83.67 83.87 83.77 83.61 83.65	APR 83.50 83.57 83.69 83.70 83.69 83.44 83.37 83.03 82.99 82.39 81.61 80.54 79.19 77.77 76.72 75.64 73.20 72.03 70.73 69.38 68.11 67.38 66.48 65.71 65.16 64.23 63.71	MAY 63.19 62.80 62.55 62.36 62.01 61.71 61.40 61.25 60.96 60.33 59.60 58.60 55.66 54.90 54.31 53.75 53.29 52.83 52.61 52.36 51.55 51.07 50.30 49.64 48.84				

e Estimated

SITE NUMBER 10—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY .TTTN TITT. ATIG SEP 54.49 66.26 68.70 71.45 73.18 74 54 75.39 63.66 66.32 68.96 71.55 73.30 74.49 75.43 62.59 ---------54.64 2 73.43 73.54 63.78 ---___ 69.05 71.53 75.18 61.78 ---3 66.28 74.68 54.64 74.87 63.81 66.37 69.11 71.88 74.84 60.86 54.69 5 63.94 66.47 69.00 72.06 73.54 74.97 74.89 59.90 ___ ___ 54.81 6 69.25 73.60 59.09 54.89 64.19 66.84 69.55 72.05 73.62 74.88 75.14 58.07 ___ ___ ___ 55.06 73.61 73.74 8 64.28 66.88 69.53 72.06 75.04 75.17 57.36 ---------55.27 67.02 69.49 72.15 56.68 64.47 75.07 55.39 10 64.49 67.07 69.54 72.24 73.74 75.06 74.97 55.72 ------55.43 73.76 74.92 11 64.43 69.84 75.08 55.47 72.45 67.34 70.01 73.73 75.14 74.77 ---------12 64.62 54.18 70.04 72.45 72.25 73.79 73.87 74 58 ___ ___ ___ ___ 13 64 68 67.41 75.38 53 25 67.35 64.80 70.39 75.38 74.46 52.65 14 15 64.84 67.36 70.40 72.55 74.00 75.31 74.59 52.09 ___ 16 64.92 70.36 73.96 51.37 e44 17 67.58 70.56 72.50 73.83 75.50 74.36 50.80 ___ 65.14 67.65 67.65 74.14 74.07 50.11 49.78 47.99 18 65.16 70.58 72.56 75.55 74.22 ------56.48 70.53 72.50 64.96 75.51 74.06 48.31 56.80 19 20 65.24 67.92 70.46 72.43 74.23 75.45 73.98 49.11 48.51 56.92 21 68.02 70.63 72.50 74.32 75.56 73.54 48.50 48.68 56.93 70.80 74.53 48.01 ___ 48.80 ---22 68.06 72.56 75.58 72.95 65.51 74.63 23 68.41 71.03 72.65 75.50 71.96 ___ ___ ___ ___ 57.18 72.90 70.94 ------57.16 74.63 ------24 65.52 68.42 71.05 75.58 25 65.47 68.57 71.10 72.90 74.41 75.57 69.90 57.20 26 65.84 71.09 68.78 68.69 73.02 74.34 75.48 57.18 27 70.95 73.10 74.19 75.31 67.53 ------___ ___ 65.95 68.71 28 65.97 68.57 71.27 71.27 73.10 74.41 75.37 66.30 ---------___ 57.45 57.55 ---------29 65.88 68.65 73.14 75.48 ---64.77 57.66 30 66.07 68.72 71.44 73.02 75.44 54.06 31 66.17 71.45 73.00 ___ 75.26 ___ ___ ___ 54.12 66.17 71.45 75.58 75.43 44.00 54.12 LOW 68.72 73.14 74.63 63.66 48.80 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAY JUN JUL AUG SEP 57.72 62.27 67.57 67.53 67.74 67.91 59.96 60.24 64.94 68.71 60.93 61.03 67.78 67.78 67.73 67.72 57.72 60.37 62.32 67.55 68.81 68.15 60.31 60.05 65.14 61.03 3 57.84 60.40 62.46 65.12 67.55 68.83 68.15 59.92 60.17 60.97 67.54 4 57.92 60.54 62.53 65.37 67.78 67.50 68.82 68.20 59.58 60.31 61.08 5 58.07 60.55 62.51 65.50 67.91 67.59 68.64 67.54 68.29 59.19 60.36 61.17 6 58.26 60.54 62.42 65.50 67.94 67.59 68.64 67.52 68.32 58.93 60.35 61.26 62.54 67.93 67.79 68.71 60.30 58.18 60.65 65.61 68.33 58.84 61.37 58.33 60.84 62.89 65.74 67.95 67.89 68.75 ___ 68.29 60.28 8 58.73 61.36 9 58 49 60 84 63 21 65 79 68 11 67 97 68 75 ___ 68 37 58 67 60 43 61 29 61.39 10 63.30 65.87 68.16 68.21 68.75 68.24 60.44 58.54 60.78 58.61 60 78 65 98 68 21 68 25 58 48 60 44 11 58 43 63 33 68 16 68 66 61 60 60.85 67.97 ---68.42 60.46 60.49 58.65 63.36 66.01 68.15 68.29 58.39 61.68 12 13 58.86 61.08 63.38 66.07 68.04 68.06 68.49 ___ 68.38 58.38 61.68 67.07 14 59 04 61.11 63.40 66.05 67.97 68 N8 68 50 68 52 58 40 60.49 61 73 67.78 68.50 15 59.19 61.12 63.48 66.21 68.13 67.12 68.52 58.62 60.48 61.84 16 59.23 61.09 63.48 66.33 68.11 68.50 67.18 68.43 58.70 60.40 61.86 ---17 59.18 63.68 68.08 68.44 67.12 68.50 58.75 60.49 61.14 66.50 61.87 59.35 63.91 66.50 ---68.44 67.25 58.72 60.50 61.88 18 61.18 68.34 19 59 47 61.18 63 91 66.63 68 42 68 40 67.37 68 40 58 86 60.62 61 86 67.73 2.0 59.58 61.25 63.87 66.75 68.42 68.42 67.38 68.17 58.96 60.75 62.05 67 78 21 59 63 61.41 64.08 66 83 67 69 68 42 68 42 67.29 59 16 60.76 62 18 67.26 67.31 2.2 59.52 59.45 64.08 67.50 67.54 68.40 68.23 60.68 61.42 66.93 68.44 67.31 59.38 62.25 61.51 64.32 66.91 68.44 66.64 59.40 60.64 62.24 23 59.44 64.44 60.61 2.4 59.81 67.17 67.54 68.44 67.91 67.47 65.83 61.66 62.23 25 59.92 61.67 64.49 67.25 67.59 68.39 67.89 67.48 65.14 59.50 60.68 62.17 26 59.85 61.66 64.51 67.25 67.48 68.41 68.08 67.48 64.36 59.61 60.68 62 19 27 59.77 61.88 64.59 67.29 67.39 68.51 68.09 67.46 63.65 59.65 60.71 62.46 59.88 67.49 68.04 67.67 60.83 62.46 2.8 62.03 64.65 67.37 68.52 62.95 59.73 29 59.88 62.05 64.87 67.43 68.59 67.90 67.75 62.19 59.75 60.86 62.56 30 59.87 62.09 64.91 67.43 ---68.65 67.78 67.81 61.50 59.88 60.86 62.70 67.52 31 60.04 68.67 67.96 59.94 60.95 67.52 67.96 60.95 LOW 60.04 62.09 64.91 68.16 68.67 68.83 68.52 60.93 62.70

e Estimated

SITE NUMBER FROM LOCATION MAP.—11.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E14BCCC.

SITE ID (STATION NUMBER).—442854103505601.

OTHER IDENTIFIER.—LA-88B and Spearfish GC Mnls.

LOCATION.—Lat 44°28′54.4″, long 103°50′53.6″, in SW¹/4SW¹/4SW¹/4NW¹/4 sec. 14, T. 6 N., R. 2 E., Hydrologic Unit 10120203, at Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 222 ft deep with 5-in. steel casing to 189 ft. Originally drilled to 497 ft but lost drill stem and was plugged back to 222 ft with cement grout. Open hole from 189 to 222 ft.

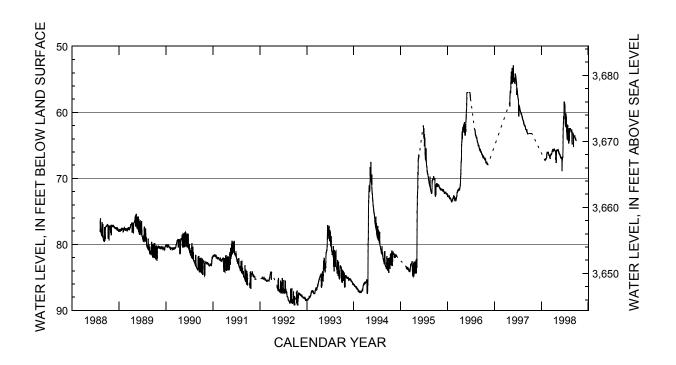
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,734.4 ft above sea level. Measuring point: Top of steel casing, 1.07 ft above land-surface datum.

REMARKS.—Records good. Water levels affected by pumping of nearby well.

PERIOD OF RECORD.—August 1988 to September 1998.

EXTREMES.—Highest daily water level, 52.90 ft below land-surface datum, May 29, 1997; lowest daily water level, 89.20 ft below land-surface datum, Sept. 25-27, 30 and Oct. 21-23, 1992.



SITE NUMBER 11—Continued

1	DAILY	LOWEST VAL		EL, IN FEE	T BELOW	LAND-SURF	ACE DATUM,	WATER	YEAR OCTOB	ER 1994 T	O SEPTEMB	ER 1995	
2 84.30 81.27 81.27 81.27 81.27 81.27 81.27 81.27 81.27 81.28 81.28 81.27 81.28 81.2	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
7 82.10 81.52 84.07 84.81 83.51 63.73 70.01 70.32 83.83 83.54 81.55 63.84 70.33 70.22 83.83 83.54 81.55 83.87 84.02 84.82 83.54 63.84 70.33 70.22 83.83 83.84 81.53 83.87 84.87 8	2 3 4	84.30 82.67 82.57	81.27 81.27 81.25	81.75 81.83 81.87			83.71 83.67 83.79	82.61 84.08 84.08	82.32 84.19 84.41		62.44 64.02 63.86	69.33 69.57 69.70	72.27 72.17 72.04 70.58 70.29
12 83.68 81.46 83.99 82.81 72.77 66.25 70.72 69.99 13 82.20 81.81 83.49 82.81 72.77 66.25 70.72 69.99 70.00 14 81.59 81.93 83.39 84.91 84.95 72.18 67.10 70.94 70.00 15 81.39 81.99 83.49 84.19 84.59 72.18 67.10 70.94 70.00 69.84 81.93 81.9	7 8 9	82.10 83.36 83.44	81.52 81.54 81.53				84.07 84.02 83.87	84.81 84.82 84.87	83.51 83.54 81.11		63.73 63.84 63.93	70.01 70.33 70.42	70.39 70.39 70.20 70.15 70.05
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 3 4 5 6 7 8 9	OCT 71.08 72.27 72.58 70.92 70.99 71.35 71.12 70.98 70.79	NOV 71.46 71.50 71.53 71.53 71.39 71.55 71.70 71.69 71.45	DEC 71.74 71.86 72.04 71.95 72.02 72.04 72.10 72.27 72.29	JAN 72.69 72.69 72.75 72.79 72.79 72.79 72.79 72.76 72.77	73.47 73.53 73.55 73.51 73.54 73.44 73.33 73.33	MAR 73.01 73.13 73.09 73.04 73.16 73.28 73.39 73.38 73.23	71.69 71.45 71.68 71.74 71.74 71.54 71.36 71.30 71.27	MAY 62.33 62.35 62.27 62.30 62.30 62.03 61.93 63.04 61.82	JUN	JUL 58.11	AUG 62.64 62.64 62.74 62.85 62.99 63.28 63.46 63.53 63.51	65.05 65.13 65.23 65.26
22 71.14 71.67 72.34 73.13 72.73 71.84 64.38 62.53 64.49 66.16 23 71.14 71.70 72.30 73.00 72.76 71.69 63.78 62.95 64.56 66.35 24 71.08 71.69 72.35 72.99 72.77 71.92 63.29 61.36 57.00 64.56 66.30 25 71.09 71.69 72.35 73.03 72.93 71.92 62.95 61.19 57.12 64.66 66.24	1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 71.08 72.27 72.58 70.92 70.99 71.35 71.12 70.98 70.79 70.78 70.86 70.95 71.30	NOV 71.46 71.50 71.53 71.53 71.39 71.55 71.70 71.69 71.45 71.75 71.69 71.75 71.75	DEC 71.74 71.86 72.04 71.95 72.02 72.04 72.10 72.27 72.29 72.12 72.12 72.13 72.12	JAN 72.69 72.69 72.78 72.79 72.79 72.79 72.79 72.79 72.79 72.78 72.65	73.47 73.53 73.55 73.51 73.54 73.44 73.33 73.38 73.38 73.20 72.98	MAR 73.01 73.13 73.09 73.04 73.16 73.28 73.39 73.38 73.23 73.07 73.01 72.87 72.79 72.71	71.69 71.45 71.69 71.45 71.68 71.74 71.74 71.36 71.30 71.27 71.01 70.83 70.65 69.82 69.31	MAY 62.33 62.35 62.27 62.30 62.30 62.30 62.03 61.93 63.04 61.82 61.78 61.68 61.73 61.49 63.11	JUN	JUL 58.11	AUG 62.64 62.74 62.85 62.99 63.28 63.46 63.53 63.51 63.48 63.53 63.63 63.83	65.05 65.13 65.23 65.26 65.36 65.52 65.49 65.51 65.66
26 70.98 71.69 72.39 73.06 72.93 71.80 62.94 60.89 57.25 64.72 66.32	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 71.08 72.27 72.58 70.92 70.99 71.35 71.12 70.98 70.79 70.78 70.86 70.95 71.30 70.90 70.90 70.90	NOV 71.46 71.50 71.53 71.53 71.39 71.55 71.70 71.69 71.45 71.75 71.75 71.75 71.75 71.75 71.73 71.73 71.73 71.73 71.73	71.74 71.86 72.04 71.95 72.02 72.04 72.10 72.27 72.29 72.29 72.12 72.12 72.13 72.19 72.13 72.25 72.20 72.13	JAN 72.69 72.45 72.79 72.79 72.79 72.77 72.79 72.79 72.78 72.79 72.78 72.78 72.78 72.78 72.78 72.78 72.78 72.86	73.47 73.53 73.55 73.51 73.54 73.34 73.33 73.18 73.38 73.20 72.98 72.96 73.10 72.96 72.65 72.65	MAR 73.01 73.13 73.09 73.04 73.16 73.28 73.39 73.38 73.23 73.07 73.01 72.87 72.79 72.71 72.44 72.13 72.03 72.14 72.14	T VALUES APR 71.69 71.45 71.68 71.74 71.74 71.30 71.27 71.01 70.83 70.65 69.82 69.31 68.73 68.13 67.49 67.03	MAY 62.33 62.35 62.27 62.30 62.30 62.30 62.03 61.93 63.04 61.82 61.78 61.68 61.73 61.49 63.11 61.75 63.47 63.47	JUN	JUL 58.11	AUG 62.64 62.74 62.85 62.99 63.28 63.46 63.53 63.51 63.48 63.63 63.83 63.83 63.89 63.91 64.07 64.24	65.05 65.13 65.23 65.26 65.36 65.52 65.49 65.51 65.66 65.80 65.79 65.69 65.69
27 71.21 71.81 72.39 73.13 73.20 71.79 64.07 60.50 57.47 64.79 66.34 28 71.26 71.77 72.31 73.14 73.28 71.78 62.73 59.70 57.81 64.98 66.45 29 71.35 71.66 72.32 73.30 73.22 71.69 62.65 59.60 58.09 65.09 66.46 30 71.35 71.74 72.28 73.35 71.77 62.33 58.77 58.10 62.55 65.05 66.36	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 71.08 72.27 72.58 70.92 70.99 71.35 71.12 70.79 70.78 70.86 70.95 71.30 70.90 70.90 70.90 70.91 71.14 71.14 71.14	NOV 71.46 71.50 71.53 71.53 71.53 71.70 71.69 71.45 71.75 71.75 71.75 71.73	DEC 71.74 71.86 72.04 71.95 72.02 72.04 72.10 72.27 72.29 72.19 72.12 72.03 72.19 72.11 72.13 72.25 72.20 72.12 72.13 72.21 72.34 72.34 72.34 72.34 72.35	JAN 72.69 72.69 72.45 72.78 72.79 72.79 72.79 72.79 72.79 72.78 72.86 72.86 72.80 72.59 73.03 73.03 73.03 73.03 73.03 73.03 73.93	73.47 73.53 73.55 73.51 73.54 73.34 73.38 73.38 73.38 73.20 72.98 72.96 73.10 72.95 72.65 72.65 72.77	AILY LOWES: MAR 73.01 73.13 73.09 73.04 73.16 73.28 73.39 73.38 73.23 73.07 73.01 72.87 72.79 72.71 72.44 72.13 72.03 72.14 72.14 72.15 71.92 71.84 71.69 71.92	T VALUES APR 71.69 71.45 71.68 71.74 71.74 71.54 71.30 71.27 71.01 70.83 70.65 69.82 69.31 68.73 68.13 67.49 67.03 66.01 64.98 64.38 63.78 63.29	MAY 62.33 62.35 62.27 62.30 62.30 62.30 62.30 62.61 63.04 61.82 61.78 61.68 61.73 61.49 63.11 61.75 63.24 63.47 63.47 63.47 63.47 63.47 63.47 63.43 63.23	JUN	JUL 58.11	AUG 62.64 62.74 62.85 62.99 63.28 63.46 63.53 63.51 63.48 63.63 63.83 63.88 63.89 63.91 64.07 64.24 64.20 64.43 64.49 64.56	65.05 65.13 65.23 65.26 65.36 65.59 65.51 65.66 65.80 65.67 65.74 65.69 65.74 66.05 66.05
LOW 72.58 71.82 72.50 73.35 73.55 73.39 71.74 63.47 58.10 62.59 65.09 66.46	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 30 30 30 30 30 30 30 30 30 30 30 30	OCT 71.08 72.27 72.58 70.92 70.99 71.35 71.12 70.98 70.79 70.78 70.86 70.95 71.30 70.90 70.90 70.91 71.14 71.14 71.14 71.08 71.09 70.91 71.19 70.91 71.109 70.91 71.11 71.14 71.135 71.35	NOV 71.46 71.50 71.53 71.53 71.53 71.70 71.69 71.45 71.75 71.75 71.75 71.73 71.73 71.73 71.73 71.73 71.73 71.73 71.73 71.74 71.61 71.74 71.69 71.69 71.69 71.69 71.69 71.69 71.69 71.69 71.69 71.69 71.69 71.70 71.69 71.70 71.69	71.74 71.86 72.04 71.95 72.02 72.04 72.10 72.27 72.29 72.12 72.13 72.15 72.13 72.14 72.34 72.34 72.35 72.35 72.39 72.39 72.31 72.32 72.32 72.32 72.32 72.32 72.32 72.32	JAN 72.69 72.45 72.79 72.79 72.79 72.79 72.79 72.79 72.78 72.79 72	73.47 73.53 73.55 73.51 73.54 73.44 73.33 73.18 73.38 73.38 73.20 72.98 72.77 72.79 72.73 72.76 72.77 72.93 72.76 72.77 72.93	AILY LOWES: MAR 73.01 73.13 73.09 73.04 73.16 73.28 73.39 73.37 73.07 73.01 72.87 72.87 72.87 72.87 72.97 72.71 72.44 72.13 72.03 72.14 72.14 72.05 71.92 71.84 71.69 71.79 71.78 71.78 71.79 71.78 71.78 71.78	T VALUES APR 71.69 71.45 71.68 71.74 71.74 71.30 71.27 71.01 70.83 70.65 69.82 69.31 68.73 68.13 67.56 67.49 67.03 66.01 64.98 64.38 63.79 62.95 62.94 64.07 62.73 62.65 62.33	MAY 62.33 62.35 62.27 62.30 62.30 62.30 62.30 62.31 61.93 63.04 61.82 61.78 61.68 61.73 61.49 63.11 61.75 63.24 63.47 63.47 63.47 63.47 63.47 63.11 61.75 63.28	JUN	JUL 58.11	AUG 62.64 62.74 62.85 62.99 63.28 63.46 63.53 63.51 63.48 63.63 63.83 63.89 63.91 64.07 64.24 64.20 64.49 64.56 64.66 64.72 64.98 65.09	65.05 65.13 65.23 65.26 65.36 65.52 65.54 65.51 65.66 65.80 65.84 65.79 65.67 65.74 65.69 66.05 66.03 66.16 66.35

e Estimated

		WATER LEVEL,	IN FEET	BELOW		CE DATUM, ILY LOWEST		AR OCTOBER	1996 T	O SEPTEMBI	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.69	67.65						59.11	54.85	57.37	60.33	62.63
2	66.74	67.58						57.65	54.95	57.59	60.42	62.66
3	66.59	67.55						57.42	55.04	57.77	60.57	62.60
4	66.50	67.56						57.05	55.01	57.82	60.67	62.58
5	66.62	67.64						56.73	54.94	57.95	60.74	62.62
6	66.73	67.77						56.67	55.05	57.99	60.84	62.64
7	66.69	67.93						56.93	55.17	58.22	60.82	62.74
8	66.75	67.88						57.05	55.40	59.47	60.79	62.87
9	66.88	67.88						55.37	55.61	60.42	61.08	62.88
10	66.87	67.99						55.79	54.75	60.63	61.11	62.81
1.1	66 73							E4 E4	FF 70	F0 00	61 10	60 77
11 12	66.73 66.89							54.54 55.59	55.72 54.25	58.92 58.92	61.18 61.28	62.77 62.94
13	66.89							53.85	54.23	59.03	61.28	63.06
14	66.97							55.45	54.23	59.11	61.21	63.12
15	66.97							55.54	54.44	59.14	61.35	63.12
16	67.01							55.69	54.55	59.22	61.65	63.26
17	67.12							54.01	54.74	59.30	61.69	63.27
18	67.12							53.51	54.90	59.49	61.64	
19	66.86							53.51	55.03	59.63	61.79	
20	67.12							53.27	55.20	59.70	61.87	
0.1	67.04							FF 13	FF 27	FO 77	61 07	
21	67.24							55.13	55.37	59.77	61.87	
22 23	67.23 67.21							55.34 55.39	55.47 55.79	59.78 59.85	61.95 61.96	
24	67.21							55.26	57.34	59.93	61.97	
25	67.18							55.27	56.28	60.00	62.08	
23	07.110							33.27	50.20	00.00	02.00	
26	67.65							55.37	56.31	60.09	62.09	
27	67.65							55.37	56.52	60.23	62.04	
28	67.57							53.32	56.78	60.27	62.09	
29	67.50						58.59	52.90	56.86	60.22	62.20	
30	67.59						58.50	54.70	57.09	60.18	62.26	
31	67.58							54.81		60.24	62.28	
LOW	67.65	67.99					58.59	59.11	57.34	60.63	62.28	63.27
		WATER LEVEL,	IN FEET	BELOW		CE DATUM, ILY LOWEST		AR OCTOBER	1997 T	O SEPTEMBI	ER 1998	
DAY	OCT	WATER LEVEL,	IN FEET	BELOW JAN				AR OCTOBER	1997 T	O SEPTEMBI JUL	ER 1998 AUG	SEP
DAY 1	OCT				DA:	ILY LOWEST	VALUES APR	MAY	JUN		AUG	
		NOV	DEC	JAN	DA: FEB	ILY LOWEST	' VALUES			JUL		SEP 63.14 63.04
1		NOV	DEC	JAN	DA: FEB 67.19	ILY LOWEST MAR 66.50	APR 65.79	MAY 65.78	JUN 66.66	JUL 58.53	AUG 64.23	63.14
1 2 3 4	 63.22 63.22	NOV 	DEC	JAN	FEB 67.19 67.24 67.24 67.09	MAR 66.50 66.50 66.46 66.49	APR 65.79 65.92 65.94 65.84	MAY 65.78 65.76 65.70 65.70	JUN 66.66 66.85 66.85 66.87	JUL 58.53 58.73 58.91 59.01	AUG 64.23 64.65 64.73 62.89	63.14 63.04 63.09 63.13
1 2 3	63.22	NOV	DEC	JAN 	DA: FEB 67.19 67.24 67.24	MAR 66.50 66.50 66.46	APR 65.79 65.92 65.94	MAY 65.78 65.76 65.70	JUN 66.66 66.85 66.85	JUL 58.53 58.73 58.91	AUG 64.23 64.65 64.73	63.14 63.04 63.09
1 2 3 4 5	63.22 63.22 63.22	NOV 	DEC 	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14	MAR 66.50 66.50 66.46 66.49 66.56	APR 65.79 65.92 65.94 65.84 65.63	MAY 65.78 65.76 65.70 65.70 65.68	JUN 66.66 66.85 66.85 66.87 66.97	JUL 58.53 58.73 58.91 59.01 59.19	AUG 64.23 64.65 64.73 62.89 62.69	63.14 63.04 63.09 63.13 63.21
1 2 3 4 5	63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.14 67.14	MAR 66.50 66.50 66.46 66.49 66.56 66.59	APR 65.79 65.92 65.94 65.84 65.63	MAY 65.78 65.76 65.70 65.70 65.68	JUN 66.66 66.85 66.85 66.87 66.97	JUL 58.53 58.73 58.91 59.01 59.19 61.45	AUG 64.23 64.65 64.73 62.89 62.69	63.14 63.04 63.09 63.13 63.21
1 2 3 4 5	63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14	MAR 66.50 66.50 66.46 66.49 66.56 66.78	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72	MAY 65.78 65.76 65.70 65.68 65.76 65.76	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04	63.14 63.04 63.09 63.13 63.21 63.33 63.32
1 2 3 4 5	63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.19 67.14 67.10 66.99	MAR 66.50 66.50 66.46 66.49 66.56 66.59 66.78 66.87	APR 65.79 65.92 65.94 65.63 65.64 65.72 65.78	MAY 65.78 65.76 65.70 65.68 65.76 65.76 65.76	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36	63.14 63.04 63.09 63.13 63.21 63.33 63.32 64.72
1 2 3 4 5	63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14	MAR 66.50 66.50 66.46 66.49 66.56 66.78	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72	MAY 65.78 65.76 65.70 65.68 65.76 65.76	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04	63.14 63.04 63.09 63.13 63.21 63.33 63.32
1 2 3 4 5 6 7 8	63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.17 66.99 66.94	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.78 66.87 66.89	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.78 65.79	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.79 65.84	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70	63.14 63.04 63.09 63.13 63.21 63.33 63.32 64.72 65.25
1 2 3 4 5 6 7 8	63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.17 66.99 66.94	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.78 66.87 66.89	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.78 65.79	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.79 65.84	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70	63.14 63.04 63.09 63.13 63.21 63.33 63.32 64.72 65.25
1 2 3 4 5 6 7 8 9 10	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92	MAR 66.50 66.50 66.46 66.49 66.56 66.87 66.87 66.87 66.89 67.00 67.00 66.63	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.78 65.79 65.64 65.48	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.79 65.84 65.85	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.76	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50	63.14 63.04 63.09 63.13 63.21 63.32 64.72 65.25 63.61
1 2 3 4 5 6 7 8 9 10	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.79 65.79 65.64 65.64	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.76 65.77 65.84 65.78 65.78 65.78	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.76 68.70 67.20	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.46	63.14 63.04 63.09 63.13 63.21 63.33 64.72 65.25 63.61 63.59 63.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92	MAR 66.50 66.50 66.46 66.49 66.56 66.59 66.78 66.89 67.00 67.00 66.63 66.55 66.55	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.79 65.79 65.64 65.64 65.64	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.77 65.78 65.77 65.77	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.90 67.20 67.02	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.46 62.46 62.46	63.14 63.04 63.09 63.13 63.21 63.33 64.72 65.25 63.61 63.59 63.59 63.53 63.53
1 2 3 4 5 6 7 8 9 10	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.79 65.79 65.64 65.64	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.76 65.77 65.84 65.78 65.78 65.78	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.76 68.70 67.20	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.46	63.14 63.04 63.09 63.13 63.21 63.33 64.72 65.25 63.61 63.59 63.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.55	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.79 65.79 65.79 65.64 65.64 65.64	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.76 65.79 65.84 65.79 65.85 65.77 65.78	JUN 66.66 66.85 66.85 66.87 66.97 66.91 66.85 66.88 66.78 68.76 68.70 67.00 67.00 67.00	JUL 58.53 58.73 58.91 59.01 59.19 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.47 62.41	63.14 63.04 63.09 63.13 63.21 63.33 64.72 65.25 63.61 63.59 63.59 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.63 66.55 66.44	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.79 65.79 65.64 65.65 65.64 65.66	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.79 65.98	JUN 66.66 66.85 66.87 66.97 66.99 66.85 66.88 66.78 68.76 68.90 67.02 67.02 66.77	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41	63.14 63.09 63.13 63.21 63.33 63.32 64.72 65.25 63.61 63.59 63.59 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.55 66.44	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.64 65.69 65.64 65.69	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.77 65.79 65.98	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.70 67.02 67.02 66.77 66.82	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.46 62.46 62.46 62.46 62.47 62.41	63.14 63.09 63.13 63.21 63.33 63.32 65.25 63.61 63.59 63.59 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	PA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.55 66.44	APR 65.79 65.79 65.94 65.84 65.63 65.64 65.72 65.79 65.79 65.64 65.64 65.64 65.64 65.67 65.77	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.76 65.79 65.84 65.79 65.85 65.77 65.72 65.79 65.98	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.70 67.00 67.00 67.00 66.80	JUL 58.53 58.73 58.91 59.01 59.19 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.02	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62	63.14 63.04 63.09 63.13 63.21 63.32 64.72 65.25 63.61 63.59 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.39 66.27 66.44 66.39 66.44	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.72 65.78 65.79 65.64 65.65 65.79 65.68	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.77 65.79 65.98	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.70 67.20 67.02 67.02 66.77 66.82 66.82 65.49	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.02 63.26	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.62	63.14 63.09 63.13 63.21 63.33 63.32 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.55 66.44 66.39 66.44 66.41	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.64 65.79 65.64 65.69 65.73 65.64 65.69	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.76 65.79 65.84 65.77 65.72 65.72 65.79 65.98	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.70 67.02 67.02 67.02 66.70 65.49 63.68	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.38 60.79 60.85 62.07 62.86 63.02 63.26 63.58	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.46 62.47 62.41 62.54 62.62 62.65 62.85	63.14 63.09 63.13 63.21 63.32 64.72 64.72 63.59 63.59 63.58 63.58 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.17 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.39 66.44 66.41	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.79 65.64 65.64 65.64 65.65 65.64 65.69 65.73 65.64 65.69	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.79 65.84 65.77 65.72 65.79 65.98 66.01 66.17 66.22 66.19 66.14	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.70 67.20 67.02 67.02 66.77 66.82 65.49 63.68 62.52	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.26 63.26 63.58 63.92	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.65 62.85 62.91	63.14 63.09 63.13 63.21 63.33 63.32 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	PA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.08 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.59 66.78 66.89 67.00 67.00 67.00 66.63 66.55 66.44 66.39 66.43 66.43	APR 65.79 65.79 65.94 65.84 65.63 65.64 65.79 65.64 65.69 65.73 65.64 65.69 65.73 65.64 65.69 65.73	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.77 65.79 65.84 65.77 65.77 65.79 65.85 66.01 66.17 66.22 66.19	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.90 67.02 67.02 66.77 66.82 66.82 66.80 65.49 63.68	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.02 63.58 63.92 63.58	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.54 62.62 62.65 62.85 62.91	63.14 63.04 63.09 63.13 63.21 63.33 64.72 65.25 63.61 63.59 63.59 63.58 63.58 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.15 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.89 67.00 67.00 66.63 66.55 66.55 66.44 66.34 66.44 66.34 66.34 66.34 66.34 66.34	APR 65.79 65.79 65.94 65.84 65.72 65.79 65.79 65.64 65.79 65.64 65.64 65.64 65.69 65.77 65.86 65.77 65.86 65.77	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.72 65.79 65.98 66.01 66.17 66.22 66.19 66.14 66.22 66.29	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.70 67.02 67.02 67.02 66.70 65.49 63.68 62.55 60.58	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 63.02 63.26 63.26 63.58 63.92 64.07 64.07	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.46 62.46 62.47 62.41 62.54 62.62 62.65 62.91	63.14 63.09 63.13 63.21 63.32 64.72 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.69 63.89 63.89
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.01 66.07 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.34 66.41 66.34 66.41 66.33 66.27	APR 65.79 65.92 65.94 65.84 65.63 65.64 65.79 65.79 65.64 65.64 65.64 65.69 65.73 65.64 65.69 65.73 65.86 65.77 65.86 65.91 65.93 67.18	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.77 65.78 65.78 65.72 65.79 65.98 66.01 66.17 66.22 66.19 66.14 66.22 66.29 66.40	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.99 66.88 66.78 68.76 68.70 67.02 67.02 67.02 66.77 66.82 66.82 66.68 68.96 68.96	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.58 63.92 64.07 64.07 62.11	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.85 62.91 62.86 62.74 62.62 62.85	63.14 63.09 63.13 63.21 63.33 63.25 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58 63.58 63.58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.15 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.89 67.00 67.00 66.63 66.55 66.55 66.44 66.34 66.44 66.34 66.34 66.34 66.34 66.34	APR 65.79 65.79 65.94 65.84 65.72 65.79 65.79 65.64 65.79 65.64 65.64 65.64 65.69 65.77 65.86 65.77 65.86 65.77	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.72 65.79 65.98 66.01 66.17 66.22 66.19 66.14 66.22 66.29	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 68.70 67.02 67.02 67.02 66.70 65.49 63.68 62.55 60.58	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 63.02 63.26 63.26 63.58 63.92 64.07 64.07	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.46 62.46 62.47 62.41 62.54 62.62 62.65 62.91	63.14 63.09 63.13 63.21 63.32 64.72 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.69 63.89 63.89
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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	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	DA: FEB 67.19 67.24 67.24 67.09 67.14 67.17 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.15 66.17 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.89 67.00 67.00 66.63 66.55 66.55 66.44 66.41 66.33 66.27 66.43 66.44 66.41 66.34 66.33 66.28 66.21 66.08	APR 65.79 65.79 65.94 65.84 65.72 65.79 65.79 65.64 65.79 65.64 65.64 65.69 65.73 65.77 65.86 65.77 65.86 65.77 65.87 65.91 65.91 65.93 67.18 66.87	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.76 65.77 65.79 65.84 65.77 65.72 65.79 65.98 66.01 66.17 66.22 66.19 66.14 66.22 66.29 66.40 66.39	JUN 66.66 66.85 66.87 66.97 66.99 66.91 66.88 66.78 68.76 67.02 67.02 67.02 66.77 66.82 66.80 65.49 65.49 66.54 60.58 60.58 60.58 60.93 61.06	JUL 58.53 58.73 58.91 59.01 59.19 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.02 63.26 63.26 63.58 63.92 64.07 64.07 62.11 61.95	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.46 62.46 62.46 62.47 62.41 62.54 62.62 62.65 62.65 62.65	63.14 63.09 63.13 63.21 63.32 64.72 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.69 63.85 63.89 63.89 63.89
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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	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.24 67.09 67.14 67.14 67.14 67.99 66.99 66.80 66.55 66.31 66.19 65.99 66.08 66.15 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.39 66.55 66.44 66.31 66.33 66.44 66.33 66.27 66.89 66.27 66.89	APR 65.79 65.79 65.92 65.94 65.63 65.64 65.72 65.78 65.79 65.64 65.65 65.79 65.64 65.69 65.73 65.64 65.69 65.73 65.75 65.77 65.86 65.91 65.91 65.93 67.18 66.28 66.28 65.77	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.77 65.79 65.84 65.77 65.79 65.85 66.01 66.17 66.22 66.19 66.14 66.22 66.19 66.14 66.22 66.39 66.31 66.46 66.59 66.40 66.59	JUN 66.66 66.85 66.87 66.97 66.99 66.99 66.88 66.78 68.76 68.90 67.02 67.02 67.02 66.77 66.82 66.82 66.83 68.76 68.90 67.02 67.02 67.02 67.02 68.77 66.82 60.93 61.06 60.88 58.75 58.38 58.49	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.58 60.79 60.85 62.86 63.02 63.26 63.58 63.92 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.65 62.85 62.91 62.86 62.74 62.62 62.65 62.65 62.85 62.74 62.62 62.65 62.85	63.14 63.09 63.13 63.21 63.33 63.32 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.69 63.80 63.80
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.29 67.14 67.07 66.99 66.94 66.92 66.80 66.55 66.31 66.19 65.99 66.08 66.05 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.33 66.44 66.41 66.34 66.37 66.89 66.37 66.89	APR 65.79 65.79 65.94 65.64 65.63 65.64 65.79 65.79 65.64 65.64 65.64 65.69 65.77 65.86 65.77 65.86 65.77 65.86 65.77 65.86 65.77 65.86 65.77 65.86 65.91	MAY 65.78 65.76 65.70 65.70 65.68 65.76 65.76 65.77 65.84 65.77 65.85 65.78 65.79 65.85 66.17 66.22 66.19 66.17 66.22 66.19 66.14 66.22 66.19 66.31 66.46 66.39	JUN 66.66 66.85 66.85 66.87 66.97 66.99 66.91 66.85 66.88 66.78 68.76 68.70 67.02 67.02 67.02 67.02 66.77 66.82 66.80 65.49 63.68 62.52 61.55 60.93 61.06 60.88 58.75 58.38	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.45 62.07 62.11 60.26 60.24 60.33 60.38 60.58 60.79 60.85 62.86 63.58 63.92 64.07 64.07 64.07 62.11 61.95 61.99 63.36 62.51 64.08	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.65 62.65 62.65 62.65 62.65 62.65 62.65 62.65	63.14 63.09 63.13 63.21 63.33 63.22 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58
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	63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22 63.22	NOV	DEC	JAN	FEB 67.19 67.24 67.24 67.24 67.09 67.14 67.14 67.14 67.99 66.99 66.80 66.55 66.31 66.19 65.99 66.08 66.15 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17 66.17	MAR 66.50 66.50 66.46 66.49 66.56 66.78 66.87 66.89 67.00 67.00 66.63 66.55 66.44 66.39 66.55 66.44 66.31 66.33 66.44 66.33 66.27 66.89 66.27 66.89	APR 65.79 65.79 65.92 65.94 65.63 65.64 65.72 65.78 65.79 65.64 65.65 65.79 65.64 65.69 65.73 65.64 65.69 65.73 65.75 65.77 65.86 65.91 65.91 65.93 67.18 66.28 66.28 65.77	MAY 65.78 65.76 65.70 65.70 65.76 65.76 65.77 65.79 65.84 65.77 65.79 65.85 66.01 66.17 66.22 66.19 66.14 66.22 66.19 66.14 66.22 66.39 66.31 66.46 66.59 66.40 66.59	JUN 66.66 66.85 66.87 66.97 66.99 66.99 66.88 66.78 68.76 68.90 67.02 67.02 67.02 66.77 66.82 66.82 66.83 68.76 68.90 67.02 67.02 67.02 67.02 68.77 66.82 60.93 61.06 60.88 58.75 58.38 58.49	JUL 58.53 58.73 58.91 59.01 59.19 61.45 61.85 62.07 62.11 60.26 60.24 60.33 60.58 60.79 60.85 62.86 63.02 63.26 63.58 63.92 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07 64.07	AUG 64.23 64.65 64.73 62.89 62.69 62.40 64.04 64.36 62.70 62.50 62.39 62.46 62.47 62.41 62.62 62.65 62.85 62.91 62.86 62.74 62.62 62.65 62.65 62.85 62.74 62.62 62.65 62.85	63.14 63.09 63.13 63.21 63.33 63.32 65.25 63.61 63.59 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.58 63.69 63.80 63.80

SITE NUMBER FROM LOCATION MAP.—12.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E5BBBB2.

SITE ID (STATION NUMBER).—443100103543002.

OTHER IDENTIFIER.—LA-86B and Spearfish W Mnkt.

LOCATION.—Lat 44°31′04.3″, long 103°54′37.7″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 5, T. 6 N., R. 2 E., Hydrologic Unit 10120203, 1 mi west of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnekahta.

WELL CHARACTERISTICS.—Drilled observation well, 290 ft deep with 263 ft of 5-in. steel casing; open hole from 263 to 290 ft.

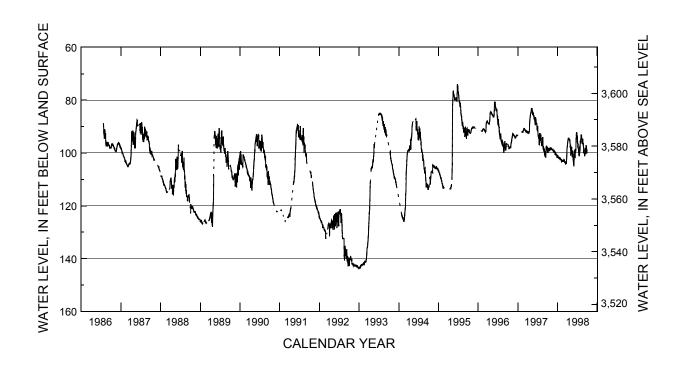
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,677.4 ft above sea level. Measuring point: Top of steel casing, 0.97 ft above land-surface datum.

REMARKS.—Records good. Water levels affected by pumping of nearby well.

PERIOD OF RECORD.—July 1986 to September 1998.

EXTREMES.—Highest daily water level, 73.96 ft below land-surface datum, June 25, 1995; lowest daily water level, 143.90 ft below land-surface datum, Dec. 31, 1992.



					DA	LILY LOWE:	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	113.79 113.06	106.97 106.97	105.62 105.16	106.38 107.06	110.62 110.84			112.40 112.28	79.79 79.57	77.33 76.76	85.92 86.44	93.84 93.57
3 4 5	113.06 113.06 112.77	106.93 106.96 107.03	106.07 105.84 105.98	107.06 106.74 106.85	111.28 111.68 111.55			 109.72	80.43 79.81 80.06	76.88 76.94 77.84	86.44 87.62 87.41	93.46 92.78 92.65
6 7	112.92 112.92	107.11 107.16	105.63 105.68	107.09 107.58	111.56 112.07			108.79 107.31	79.87 79.64	77.84 78.31	88.43 88.37	92.53 90.04
8	112.25	107.55	105.62	107.32	112.22			106.41	79.56	79.05	88.06	90.92
9 10		107.55 104.46	105.75 105.92	107.61 107.48	112.17 112.08			104.14 97.28	79.51 79.63	79.41 79.54	88.94 89.80	91.75 93.44
11 12		104.86 104.61	105.74 105.52	107.60 107.61	112.65 113.39			86.18 81.73	79.58 78.88	79.89 80.75	88.70 88.39	93.34 92.84
13 14	109.28 109.28	104.76	105.53	108.09 108.32	113.41 113.33			80.20	79.50 79.34	80.56	88.75	93.15
15	109.32	104.87 104.82	105.81 105.09	108.11	112.57			79.67 78.56	79.03	81.23 80.85	89.64 89.60	92.89 94.16
16 17	109.24 109.38	104.73 105.08	105.64 105.84	108.82 108.47	113.39 113.15			77.58 76.81	79.25 79.27	80.47 81.04	90.85 90.15	94.27 94.64
18	111.64	105.01	105.84	108.76				76.65	79.77	82.40	89.88	92.39
19 20	111.93 111.67	105.20 105.28	105.94 105.86	108.61 108.78				76.60 77.15	80.27 80.52	80.93 82.48	89.86 91.78	90.76 90.68
21	110.02	105.17	105.99	109.42				77.66	80.52	81.88	91.64	90.68
22 23	109.54 109.16	105.04 105.23	106.18 106.07	109.59 109.59			113.69	77.58 77.88	79.51 77.62	81.16 82.79	92.27 91.74	90.61 90.97
24 25	108.69 108.07	105.26 104.81	106.11 106.00	109.20 109.55			113.78 112.99	77.93 78.19	74.94 73.96	82.46 82.51	91.84 92.33	91.42 91.46
26 27	107.71 107.40	105.22 105.30	105.87 106.37	109.48 109.56			113.18 113.18	78.18 78.63	74.03 74.47	83.99 85.01	91.80 90.39	91.22 90.91
28	107.15	104.96	106.14	110.37			112.78 112.54	78.88	74.56	85.01	91.23	93.42
29 30	107.07 107.07	105.69 105.38	106.31 106.43	110.46 110.26			112.54	79.18 79.27	75.29 75.87	85.19 85.87	91.12 92.25	91.28 91.66
31	106.99	107 55	106.82	110.49	112 41		112 70	79.80		85.60	91.98	
LOW	113.79	107.55	106.82	110.49	113.41		113.78	112.40	80.52	85.87	92.33	94.64
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM	I, WATER Y	EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
		WATER LEV	EL, IN FE	ET BELOW			I, WATER Y ST VALUES	EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				EAR OCTOB	ER 1995 TO JUN	O SEPTEMB JUL	ER 1996 AUG	SEP
1	OCT 92.00	NOV 90.96	DEC	JAN	DA FEB 	MAR 91.25	ST VALUES APR 88.51	MAY 84.56	JUN 80.87	JUL 88.31	AUG 95.61	97.18
1 2 3	OCT 92.00 91.72 91.81	NOV 90.96 90.83 90.71	DEC	JAN 	DA FEB 	MAR 91.25 91.58 91.53	APR 88.51 88.56 88.74	MAY 84.56 84.72 84.78	JUN 80.87 80.75 80.78	JUL 88.31 89.20 89.36	AUG 95.61 95.68 95.57	97.18 97.18 95.55
1 2	OCT 92.00 91.72	NOV 90.96 90.83	DEC	JAN 	DA FEB 	MAR 91.25 91.58	APR 88.51 88.56	MAY 84.56 84.72	JUN 80.87 80.75	JUL 88.31 89.20	AUG 95.61 95.68	97.18 97.18
1 2 3 4 5	OCT 92.00 91.72 91.81 91.63 91.60	NOV 90.96 90.83 90.71 90.63 90.58	DEC	JAN 	DA FEB 	MAR 91.25 91.58 91.53 91.52 91.61	APR 88.51 88.56 88.74 88.74 88.81	MAY 84.56 84.72 84.78 84.95 85.12	JUN 80.87 80.75 80.78 81.24 81.24	JUL 88.31 89.20 89.36 88.73 87.82	AUG 95.61 95.68 95.57 96.12 95.76	97.18 97.18 95.55 97.24 97.27
1 2 3 4 5	92.00 91.72 91.81 91.63 91.60 91.43 91.30	NOV 90.96 90.83 90.71 90.63 90.58 90.51	DEC	JAN	FEB 91.76 91.93	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79	APR 88.51 88.56 88.74 88.74 88.81 89.02 89.18	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39	JUN 80.87 80.75 80.75 81.24 81.24 80.98 80.68	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33	97.18 97.18 95.55 97.24 97.27 97.19 96.72
1 2 3 4 5	OCT 92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38	NOV 90.96 90.83 90.71 90.63 90.58	DEC	JAN	DA FEB 91.76 91.93 91.84	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86	APR 88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.20	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85	JUL 88.31 89.20 89.36 88.73 87.82	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53	97.18 97.18 95.55 97.24 97.27 97.19 96.72 98.27
1 2 3 4 5	92.00 91.72 91.81 91.63 91.60 91.43 91.30	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.51	DEC	JAN	FEB 91.76 91.93	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79	APR 88.51 88.56 88.74 88.74 88.81 89.02 89.18	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39	JUN 80.87 80.75 80.75 81.24 81.24 80.98 80.68	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33	97.18 97.18 95.55 97.24 97.27 97.19 96.72
1 2 3 4 5 6 7 8 9 10	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.51 90.39 90.44 90.54	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18	88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.99	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.39 85.36 85.40	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03	97.18 97.18 95.55 97.24 97.27 97.19 96.72 98.27 98.27 98.27
1 2 3 4 5 6 7 8 9	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.39 90.44 90.54	DEC	JAN	DF FEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.23	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18	88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96 88.96 89.03	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.30 85.36	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.53 96.53 96.43 95.03	97.18 97.18 95.55 97.24 97.27 97.19 96.72 98.27 98.27 98.27
1 2 3 4 5 6 7 8 9 10	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.39 90.44 90.54 90.61 90.48	DEC	JAN	PEB 91.76 91.93 91.84 91.77 91.51 91.35	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18	88.51 88.56 88.74 88.74 88.74 88.81 89.02 89.18 89.03 88.96 89.03	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.20 85.39 85.36 85.40 85.49	JUN 80.87 80.75 80.78 81.24 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 89.98	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03	97.18 97.18 95.55 97.24 97.27 97.19 96.72 98.27 98.27 99.10 98.51
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 91.78 92.56	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.23 90.98	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25	88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96 88.96 89.03 88.98 88.98 88.98 88.98 88.98	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.39 85.36 85.40 85.49 85.40 85.49 85.47 85.74	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80 83.48	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 90.44 91.61 92.00 91.93	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03 95.70 96.61 97.34 97.34 96.71	97.18 97.18 97.28 97.24 97.27 97.19 96.72 98.27 98.27 98.27 99.10 98.51 98.57 98.23
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 91.79 91.78 92.56	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.39 90.44 90.61 90.48 90.30 90.31 90.21	DEC	JAN	PFEB 91.76 91.84 91.64 91.77 91.51 91.35 91.23 91.08 90.98	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25	88.51 88.56 88.74 88.81 89.02 89.18 88.96 88.96 89.03 88.99 88.78 88.99 88.98 88.98	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.30 85.36 85.40 85.40 85.52 85.74	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80	JUL 88.31 89.20 89.36 88.73 87.82 87.82 87.99 89.13 89.13 89.98 89.98 90.44 91.61 92.00	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03 95.70 96.61 97.34 97.34 96.71	97.18 97.18 95.55 97.24 97.27 96.72 98.27 98.27 98.27 98.10 98.51 98.51 98.57 98.23
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 91.78 92.56 92.23 92.03 92.21	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.32	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.08 90.98	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.50 88.27	88.51 88.56 88.74 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.96 89.03 88.98 88.78 88.98 88.81 88.52 88.13 87.40 86.37	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.39 85.36 85.40 85.49 85.52 85.74 85.62 85.74 85.62	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 82.83 83.23 83.77 83.84 82.80 83.48 83.69 84.04 83.69	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 89.98 44 91.61 92.00 91.93 92.25 93.07 93.03	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03 95.70 96.61 97.34 97.34 96.71 95.87 96.09 97.04	97.18 97.18 97.27 97.24 97.27 96.72 98.27 98.27 98.27 99.10 98.51 98.57 98.23
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	92.00 91.72 91.81 91.63 91.60 91.43 91.38 91.57 91.68 91.79 91.61 91.78 92.56 92.23 92.23 92.23 92.35 92.13	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.39 90.44 90.61 90.48 90.31 90.21 90.11 90.11 90.32 90.25	DEC	JAN	PFEB 91.76 91.76 91.84 91.64 91.77 91.51 91.35 91.23 91.08 90.98 90.81 91.04 90.95 90.90 90.86	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.84 88.27 88.18	88.51 88.56 88.74 88.81 89.02 89.18 88.96 88.96 88.96 88.98 88.13 88.52 88.81	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.40 85.52 85.74 85.62 85.74 85.62 86.39 86.41	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80 83.48 83.69 84.04 83.93 83.92	JUL 88.31 89.20 89.36 88.73 87.79 87.25 89.13 89.13 89.98 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03 95.70 96.61 97.34 97.34 96.71	97.18 97.18 97.27 97.24 97.27 97.19 96.72 98.27 98.27 98.27 98.27 98.27 98.51 98.51 98.55 96.44
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 91.78 92.56 92.23 92.03 92.21 92.35 92.13	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.11 90.12 90.12	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.23 91.08 90.98	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.50 88.27 88.18	88.51 88.56 88.74 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.96 89.03 88.98 88.78 88.78 88.78 88.78 88.78 88.78 88.78 88.74 88.74 88.74 88.74	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.40 85.49 85.40 85.49 85.40 85.49 85.40 85.40	JUN 80.87 80.75 80.78 81.24 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80 83.48 83.69 84.04 83.93 83.92 84.07 83.41	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 90.44 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03 95.70 96.61 97.34 97.34 96.71 95.87 96.09 97.04 97.00 97.42 97.46 98.42	97.18 97.18 97.24 97.24 97.27 97.19 96.72 98.27 98.27 98.51 98.51 98.51 98.53 97.85 96.44
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	92.00 91.72 91.81 91.63 91.60 91.38 91.57 91.68 91.79 91.61 91.78 92.56 92.23 92.23 92.21 92.35 92.35	NOV 90.96 90.83 90.71 90.63 90.58 90.51 90.51 90.39 90.44 90.54 90.61 90.48 90.31 90.21	DEC	JAN	PFEB 91.76 91.76 91.84 91.64 91.77 91.51 91.35 91.23 91.08 90.98 90.98 90.98 90.99 90.81	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.66 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.50 88.27 88.18	88.51 88.56 88.74 88.81 89.02 89.18 88.96 88.96 88.96 88.98 88.13 88.52 88.13 88.52 88.53 88.40 86.37 85.88	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.40 85.52 85.74 85.62 85.74 85.62 85.74 86.39 86.31	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80 83.48 83.69 84.04 83.93 83.92 84.07 83.41 84.07	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 89.98 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03 95.70 96.61 97.34 97.34 97.34 97.34 97.34 97.34 97.34	97.18 97.18 97.24 97.27 97.27 97.19 96.72 98.27 98.27 98.51 98.51 98.57 98.53 97.85 96.44
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 91.78 92.56 92.23 92.03 92.21 92.35 92.13	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.11 90.12 90.12	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.23 91.08 90.98	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.50 88.57 88.18	88.51 88.56 88.74 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.96 89.03 88.98 88.78 88.78 88.78 88.78 88.78 88.78 88.78 88.74 88.74 88.74 88.74	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.40 85.49 85.40 85.49 85.40 85.49 85.40 85.40	JUN 80.87 80.75 80.78 81.24 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.84 82.80 83.48 83.69 84.04 83.93 83.92 84.07 83.41	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 90.44 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03 95.70 96.61 97.34 97.34 96.71 95.87 96.09 97.04 97.00 97.42 97.46 98.42	97.18 97.18 97.24 97.24 97.27 97.19 96.72 98.27 98.27 98.51 98.51 98.51 98.53 97.85 96.44
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	92.00 91.72 91.81 91.63 91.43 91.30 91.38 91.57 91.61 91.79 92.56 92.23 92.21 92.35 92.13 92.50 92.53 92.35 92.35	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.11 90.12 90.25 90.06 90.25 90.09 90.24	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.35 91.08 90.98 90.81 91.04 90.95 90.90 90.86	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.86 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.27 88.18 88.09 88.11 88.09 88.11 88.09	88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.96 88.78 88	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.52 85.74 85.62 85.74 86.34 86.34 86.34 86.34 86.34 86.36 86.15 86.29	JUN 80.87 80.75 80.78 81.24 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.27 83.84 82.80 83.48 83.69 83.48 83.69 83.48 83.69 83.48 83.69 83.77 83.84 83.69 83.83 83.77 83.84 83.69 83.88	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89 93.89 94.92 94.64 93.21	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.53 96.43 95.03 95.70 96.61 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34	97.18 97.18 97.27 97.27 97.27 98.27 98.27 98.27 99.10 98.51 98.51 98.53 97.85 96.44
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	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 92.56 92.23 92.03 92.21 92.35 92.13 92.53 92.37 92.32	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.12 90.25 90.09 90.24	DEC	JAN	PFEB 91.76 91.76 91.84 91.64 91.77 91.51 91.35 91.08 90.98 90.98 90.91 90.91 91.18 91.21	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.97 91.81 92.04 91.97 91.81 92.04 91.97 88.84 88.50 88.27 88.18 88.09 88.27 88.18 88.09 88.28	88.51 88.56 88.74 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.78 88	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.52 85.74 85.62 85.74 86.34 86.36 86.15 86.29 86.20 86.54	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.87 82.80 83.48 83.69 84.04 83.93 83.92 84.07 85.71 86.25 86.84 87.37	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.98 89.98 90.44 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89 93.80 94.92 94.64	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03 95.70 96.61 97.34 96.71 95.87 96.09 97.04 97.00 97.42 97.46 97.99 97.46 97.99 97.47 99.93	97.18 97.18 97.24 97.27 97.27 97.19 96.72 98.27 98.27 98.51 98.51 98.51 98.67 98.67 98.67
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.61 91.81 91.78 92.56 92.23 92.03 92.13 92.21 92.35 92.13	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.31 90.21 90.11 90.11 90.11 90.12 90.25 90.99 90.24 90.23 90.47 90.46	DEC	JAN	PFEB 91.76 91.93 91.84 91.64 91.77 91.51 91.23 91.08 90.98 90.81 91.04 90.95 90.90 90.86 90.93 90.91 91.18 91.21	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.66 91.95 92.18 92.04 91.97 91.81 91.22 90.25 89.19 88.84 88.09 88.11 88.09 88.11 88.09 88.11 88.09	88.51 88.51 88.56 88.74 88.74 88.81 89.02 89.18 88.96 89.03 88.99 88.78 88.98 88.78 88	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.52 85.74 85.62 85.74 86.34 86.34 86.34 86.35 86.29 86.20 85.54	JUN 80.87 80.75 80.78 81.24 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.27 83.84 82.80 83.48 83.69 83.49 83.69 83.49 84.07 83.41 84.04 85.10 85.71 86.25 86.84 87.37 86.12	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.13 89.98 90.44 91.61 92.00 91.93 92.25 93.03 93.96 94.35 93.89 94.35 93.89 94.64 93.21 92.63 93.92 94.64	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.53 96.53 96.53 96.43 95.03 95.70 96.61 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34 97.34	97.18 97.18 97.27 97.27 97.27 96.72 98.27 98.27 98.51 98.51 98.51 98.53 97.85 96.44
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	92.00 91.72 91.81 91.63 91.60 91.43 91.30 91.38 91.57 91.68 91.79 91.61 92.56 92.23 92.03 92.21 92.35 92.13 92.53 92.37 92.32	NOV 90.96 90.83 90.71 90.63 90.51 90.51 90.54 90.61 90.48 90.30 90.31 90.21 90.11 90.11 90.11 90.11 90.12 90.25 90.99 90.24 90.25 90.09 90.24	DEC	JAN	PFEB	MAR 91.25 91.58 91.53 91.52 91.61 91.72 91.79 91.86 91.97 91.81 92.04 91.97 91.81 92.04 91.97 88.84 88.50 88.27 88.18 88.09 88.27 88.18 88.09 88.28	88.51 88.56 88.74 88.74 88.74 88.74 88.90 89.02 89.18 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.96 88.78 88.78 88.78 88.78 88.78 88.78 88.78 88.96 89.03 88.96 89.03 88.96 89.03 88.96 89.03 88.96 88.96 88.96 89.03 88.96 88.53 88.96 84.46 84.46 84.46 84.39 84.51	MAY 84.56 84.72 84.78 84.95 85.12 85.09 85.39 85.36 85.40 85.49 85.52 85.74 85.62 85.74 86.34 86.36 86.15 86.29 86.20 86.54	JUN 80.87 80.75 80.78 81.24 81.24 80.98 80.68 81.85 82.06 82.83 83.23 83.77 83.87 82.80 83.48 83.69 84.04 83.93 83.92 84.07 85.71 86.25 86.84 87.37	JUL 88.31 89.20 89.36 88.73 87.82 87.79 87.25 89.13 89.98 89.98 90.44 90.44 91.61 92.00 91.93 92.25 93.07 93.03 93.96 94.35 93.89 93.80 94.92 94.64	AUG 95.61 95.68 95.57 96.12 95.76 95.67 96.33 96.43 95.03 95.70 96.61 97.34 96.71 95.87 96.09 97.04 97.00 97.42 97.46 97.99 97.46 97.99 97.47 99.93	97.18 97.18 97.24 97.27 97.27 97.19 96.72 98.27 98.27 98.51 98.51 98.55 96.44

SITE NUMBER 12—Continued

		WATER LEV	EL, IN FE	ET BELOW		FACE DATUM		YEAR OCTOBE	R 1996	TO SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	96.79 96.87 97.02 97.68	96.08 96.25 95.81 95.51 95.53	93.69 93.81 93.89 93.80 93.96	 	 	90.97 91.12 91.01 90.93 90.99	92.27 92.19 92.02 92.24 92.10	84.81 84.82 84.62 84.25 83.70	86.63 86.24 86.86 86.92 87.26	91.54 89.79 90.50 91.73 92.27	93.02 94.17 95.28 96.10 96.17	98.30 98.87 100.09 100.60 100.54
6 7 8 9 10	97.51 97.27 97.59 97.72 97.78	95.08 94.91 94.49 94.21 93.97	94.09 94.24 94.40 94.40 94.40	 	 	91.10 91.25 91.29 91.56 91.38	92.31 92.40 92.09 92.20 92.25	83.30 83.31 83.27 83.00 83.51	87.71 87.91 88.17 88.84 88.74	93.03 93.07 93.47 94.08 94.44	95.99 96.10 97.29 97.08 96.88	99.34 100.92 100.80 99.43 100.39
11 12 13 14 15	98.56 98.24 98.25 98.03 97.81	93.97 93.56 93.17 93.07 92.81	94.33 94.34 94.06 94.00 93.64	 	91.87 91.99 91.97 92.22	91.40 91.44 91.59 91.56 91.89	92.36 92.61 92.49 92.38 92.40	83.40 83.64 83.55 84.17 84.72	89.45 87.24 86.46 87.93 86.90	94.51 93.07 93.15 94.19 95.02	96.38 97.27 97.27 94.41 94.36	100.24 101.15 101.45 101.75 101.48
16 17 18 19 20	97.77 97.93 97.68 97.93 97.99	92.95 93.06 92.75 92.92 92.88	93.58 93.47 93.41 93.41 93.05	 	92.21 91.97 91.91 91.70 91.61	91.98 91.77 91.93 91.86 91.98	92.18 91.71 91.03 89.63 88.75	85.06 85.62 85.54 84.62 84.84	87.65 87.38 87.84 88.94 88.94	96.51 96.45 97.09 96.61 92.63	94.17 94.00 94.19 95.32 96.49	100.06 99.35 98.34 97.77 97.57
21 22 23 24 25	97.99 97.84 97.84 97.53 97.73	92.84 92.79 93.24 93.18 93.19	93.39 93.42 93.35 93.67 93.49	 	91.48 91.63 91.27 91.18 90.84	91.84 92.04 91.88 92.03 91.97	87.76 87.26 86.93 86.65 86.14	84.78 84.96 85.14 85.10 85.99	88.49 88.94 88.61 89.08 89.31	92.49 93.49 94.27 94.51 93.93	97.73 98.39 98.36 98.31 97.47	98.95 98.00 97.30 98.51 99.09
26 27 28 29 30 31	97.78 97.87 97.42 97.16 96.90 96.51	93.34 93.34 93.55 93.37 93.62	 	 	90.89 90.70 90.89 	92.02 92.03 92.03 92.19 92.08 92.02	85.83 85.62 85.23 85.09 84.81	85.99 85.99 85.70 86.24 86.24 87.28	91.25 91.35 90.45 90.54 91.38	95.36 95.36 93.48 92.61 93.31 93.31	97.56 99.05 99.38 99.47 99.47 98.89	98.28 98.43 98.86 97.71 99.35
LOW	98.56	96.25	94.40		92.22	92.19	92.61	87.28	91.38	97.09	99.47	101.75
		WATER LEV	EL, IN FE	CET BELOW		FACE DATUM		YEAR OCTOBE	R 1997	TO SEPTEME	BER 1998	
DAY	OCT	WATER LEV	VEL, IN FE	ET BELOW					R 1997 JUN	TO SEPTEME	BER 1998 AUG	SEP
	OCT 99.29 99.75 98.90 99.75 99.90				D.	AILY LOWES	ST VALUES	5				SEP 98.89 98.96 99.32 100.30 100.03
DAY 1 2 3 4	99.29 99.75 98.90 99.75	NOV 98.54 98.48 98.18 98.30	DEC 99.55 99.35 99.30 99.60	JAN 101.23 101.19 101.35 101.45	D. FEB 102.65 102.47 102.37 102.53	MAR 102.67 102.42 102.49 102.61	APR 97.49 97.02 96.91 96.42	96.85 98.37 100.99 100.57	JUN 104.90 104.34 102.75 101.54	JUL 94.45 95.91 95.63 93.40	AUG 96.03 95.95 94.99 94.61	98.89 98.96 99.32 100.30
DAY 1 2 3 4 5 6 7 8 9	99.29 99.75 98.90 99.75 99.90 99.27 100.01 98.20 98.70	NOV 98.54 98.18 98.30 98.48 98.15 98.43 98.50	DEC 99.55 99.35 99.30 99.60 99.34 99.71 99.70 99.99 100.69	JAN 101.23 101.19 101.35 101.45 101.33 101.29 101.50 101.68 101.47	D. FEB 102.65 102.47 102.53 102.72 102.61 103.11 103.04 102.72	MAR 102.67 102.42 102.49 102.61 102.91 103.08 103.35 103.53 103.53	APR 97.49 97.02 96.91 96.42 96.01 95.47 95.43 95.18 94.72	96.85 98.37 100.99 100.57 99.88 99.68 99.63 97.83	JUN 104.90 104.34 102.75 101.54 100.37 101.33 98.90 98.84	JUL 94.45 95.91 95.63 93.40 96.10 96.16 97.80 97.80 96.63	AUG 96.03 95.95 94.99 94.61 94.26 93.66 93.15 93.20 93.90	98.89 98.96 99.32 100.30 100.03 100.13 101.19 100.91 100.70
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	99.29 99.75 98.90 99.75 99.90 99.27 100.01 98.20 98.70 98.47 99.29 98.61 98.61 98.26	NOV 98.54 98.48 98.18 98.30 98.48 98.15 98.43 98.50 98.51 98.55 98.41 98.85	DEC 99.55 99.30 99.60 99.34 99.71 99.70 99.99 100.69 99.86 99.80 99.53 99.86 100.94	JAN 101.23 101.19 101.35 101.45 101.33 101.29 101.50 101.68 101.47 101.98 101.97 101.69 101.69 101.69	D. FEB 102.65 102.47 102.37 102.53 102.72 102.61 103.11 103.04 102.72 103.00 102.87 102.83 102.93 103.03	MAR 102.67 102.42 102.49 102.61 102.91 103.08 103.35 103.53 103.50 103.38 103.49 103.49 103.70 103.82	APR 97.49 97.02 96.91 96.42 96.01 95.47 95.43 94.72 94.76 94.54 94.54 94.54	96.85 98.37 100.99 100.57 99.88 99.68 99.63 97.83 97.81 98.55 98.17 97.82 100.39 100.14	JUN 104.90 104.34 102.75 101.54 100.37 101.33 101.33 98.90 98.84 99.98 101.03 101.52 99.73	94.45 95.91 95.63 93.40 96.10 96.16 97.80 96.63 96.51 98.19 98.39 98.8,97	AUG 96.03 95.95 94.99 94.61 94.26 93.66 93.15 93.20 93.90 93.37 93.51 94.80 94.42 94.71	98.89 98.96 99.32 100.30 100.03 100.13 101.19 100.70 100.70 100.68 100.69 98.08 98.30
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	99.29 99.75 98.90 99.75 99.90 99.27 100.01 98.20 98.70 98.47 99.29 98.61 98.62 98.29 98.53 98.72 99.30	98.54 98.48 98.18 98.30 98.48 98.15 98.50 98.51 98.51 98.55 98.41 98.85 98.98	99.55 99.30 99.60 99.34 99.71 99.70 99.99 100.69 99.86 99.80 100.94 99.91	JAN 101.23 101.19 101.35 101.45 101.50 101.68 101.47 101.98 101.97 101.69 101.65 101.71 102.12 102.16 102.07	D. FEB 102.65 102.47 102.37 102.53 102.72 102.61 103.11 103.04 102.72 103.00 102.87 102.83 102.93 103.03 103.18 103.37 102.90 103.00 102.99	MAR 102.67 102.42 102.49 102.61 102.91 103.08 103.53 103.50 103.38 103.48 103.49 103.70 103.82 104.03 103.88 103.68 103.69 103.73	APR 97.49 97.02 96.91 96.42 96.01 95.47 95.43 94.72 94.76 94.54 94.54 94.54 94.54 94.87	96.85 98.37 100.99 100.57 99.88 99.68 99.63 97.83 97.81 98.55 98.17 97.82 100.39 100.14 99.01 99.40 101.57 101.36 101.38	JUN 104.90 104.34 102.75 101.54 100.37 101.33 101.33 98.90 98.84 99.98 101.03 101.91 101.52 99.73 99.90 99.67 99.53 98.82 98.82	94.45 95.91 95.63 93.40 96.10 96.16 97.80 96.63 96.51 98.19 98.39 98.54 98.97 99.91	AUG 96.03 95.95 94.99 94.61 94.26 93.66 93.15 93.20 93.90 93.37 93.51 94.80 94.42 94.71 95.06	98.89 98.96 99.32 100.30 100.03 100.13 101.19 100.70 100.70 100.68 100.69 98.08 98.30 99.03 99.20 100.09
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	99.29 99.75 98.90 99.75 99.90 99.77 100.01 98.20 98.70 98.47 99.29 98.61 98.67 98.29 98.53 98.72 99.30 98.52	NOV 98.54 98.48 98.18 98.30 98.48 98.15 98.50 98.51 98.55 98.41 98.85 98.99 98.84 98.89 99.09 98.84 98.80 98.77	99.55 99.30 99.60 99.34 99.71 99.70 99.99 100.69 99.86 100.94 99.91 99.73 100.49 100.55 100.84 100.66 100.63 100.66	JAN 101.23 101.19 101.35 101.45 101.50 101.68 101.47 101.98 101.69 101.69 101.65 101.71 102.12 102.16 102.07 101.60 101.91 101.91 101.91	D. FEB 102.65 102.47 102.37 102.53 102.72 102.61 103.11 103.01 102.87 102.83 103.03 103.18 103.37 102.90 102.99 102.99 103.37 103.00 102.99 103.19 103.37 103.37 103.30 103.19	MAR 102.67 102.42 102.49 102.61 102.91 103.08 103.53 103.53 103.50 103.38 103.48 103.49 103.49 103.53 103.59 103.82 104.03 103.88 103.69 103.73 103.60 103.86 104.03 103.99 103.23	APR 97.49 97.02 96.91 96.42 96.01 95.47 95.43 95.18 94.72 94.76 94.70 94.54 94.54 94.54 94.54 94.54 94.54 94.54 94.54 94.54	96.85 98.37 100.99 100.57 99.88 99.68 99.63 97.83 97.81 98.55 98.17 97.82 100.39 100.14 99.01 99.40 101.57 101.38 101.54 99.56 100.96 99.25 101.38	JUN 104.90 104.34 102.75 101.54 100.37 101.33 101.33 98.90 98.84 99.98 101.03 101.91 101.52 99.73 99.90 99.67 99.53 98.82 96.15 94.70 94.19 92.92 92.56	94.45 95.91 95.63 93.40 96.10 96.16 97.80 97.80 96.63 96.51 98.19 98.54 98.97 99.91 100.45 100.57 100.92 100.67	AUG 96.03 95.95 94.99 94.61 94.26 93.66 93.15 93.20 93.90 93.37 93.51 94.80 94.42 94.71 95.06 96.52 96.15 95.71 95.79 95.85	98.89 98.96 99.32 100.30 100.03 100.13 101.19 100.70 100.68 100.69 98.08 98.30 99.03 99.20 100.09 100.11 99.09 97.99

SITE NUMBER FROM LOCATION MAP.—13.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—6N2E5BBBB.

SITE ID (STATION NUMBER).—443100103543001.

OTHER IDENTIFIER.—LA-86A and Spearfish W Mnls.

LOCATION.—Lat 44°31′04.3″, long 103°54′37.7″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 5, T. 6 N., R. 2 E., Hydrologic Unit 10120203, 1 mi west of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 430 ft deep with 404 ft of 5-in. steel casing. Prior to May 24, 1994, open hole from 404 to 430 ft; after May 24, 1994, 3-in. PVC with 18-slot screen from 404 to 430 ft.

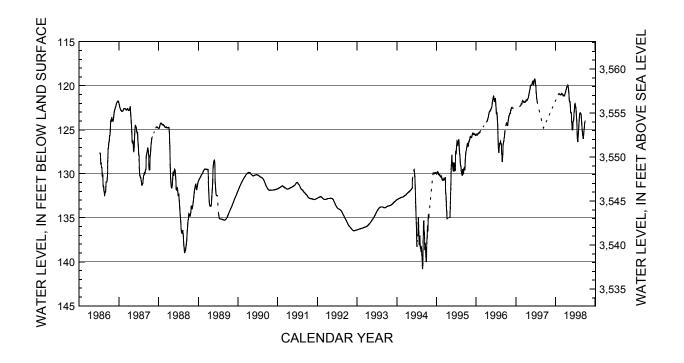
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,678.1 ft above sea level. Measuring point: Top of steel casing, 1.06 ft above land-surface datum.

REMARKS.—Records fair. Air pumping in July 1989 may have changed well characteristics. Cleaning and screening on May 24, 1994, has improved sensitivity to water-level changes.

PERIOD OF RECORD.—July 1986 to September 1998.

EXTREMES.—Highest daily water level, 119.24 ft below land-surface datum, June 23, 1997; lowest daily water level, 140.83 ft below land-surface datum, Aug. 27, 1994.



SITE NUMBER 13—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					D2	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	139.97 139.87 139.24 138.48 137.84		129.99 129.94 129.88 129.92 129.95	130.00 130.03 130.04 130.05 130.02	130.16 130.14 130.22 130.25 130.29	130.77 130.77 130.76 130.70 130.67	132.81 133.19 133.57 133.78 134.04	 134.94 134.95	129.00 129.36 129.62 129.63 129.55	127.78 127.75 127.49 127.20 127.03	127.42 127.54 127.69 127.80 127.91	129.50 129.57 129.65 129.73 129.85
6 7 8 9 10	137.34 137.39 137.38 137.08 136.50		129.96 129.95 129.99 130.00 130.03	129.89 129.84 129.83 129.84 129.84	130.32 130.37 130.38 130.38	130.65 130.71 130.72 130.72 130.65	134.33 134.66 134.88 135.13	134.92 134.69 134.35 133.84 133.29	129.10 128.87 129.16 129.45 129.68	126.91 126.75 126.60 126.44 126.33	128.06 128.24 128.45 128.67 128.85	130.01 130.02 130.00 129.74 129.55
11 12 13 14 15	135.90 136.03 136.41 136.52 136.50		130.03 129.96 129.96 129.94 129.92	129.80 129.78 129.83 129.83 129.83	130.29 130.32 130.34 130.34 130.25	130.60 130.52 130.53 130.63 130.67	 	132.82 132.28 131.70 131.19 130.79	129.69 129.57 129.08 128.73 128.93	126.26 126.29 126.44 126.63 126.74	128.99 129.09 129.09 129.16 129.19	129.42 129.38 129.37 129.34 129.32
16 17 18 19 20	136.31 135.84 135.20 134.68 134.68		129.90 129.92 129.93 129.91 129.91	129.82 129.84 129.89 129.97 130.05	130.24 130.26 130.34 130.41 130.62	130.69 130.72 130.72 130.67 130.60	 	130.33 129.86 129.43 129.06 128.83	129.29 129.54 129.56 129.53 129.29	126.77 126.77 126.69 126.54 126.41	129.29 129.43 129.62 129.79 129.89	129.39 129.47 129.53 129.56 129.55
21 22 23 24 25	134.74 135.00 135.00 134.78 134.68		129.93 129.98 129.98 129.96 129.90	130.07 130.09 130.09 130.13 130.15	130.65 130.66 130.70 130.71 130.68	130.56 130.47 130.45 130.45		128.55 128.22 128.02 127.86 128.19	129.42 129.65 129.65 129.56 129.10	126.34 126.34 126.33 126.28 126.22	129.98 130.03 130.06 130.07 130.12	129.40 129.20 128.84 128.52 128.29
26 27 28 29 30 31	 	130.01	129.92 129.95 129.96 129.95 129.96 129.99	130.15 130.10 130.12 130.19 130.20 130.20	130.62 130.66 130.74	131.00 131.84 132.25 132.37 132.37	 	128.63 129.01 129.11 129.10 128.85 128.70	128.43 127.85 127.47 127.47 127.73	126.17 126.10 126.30 126.52 126.87 127.22	130.19 130.19 130.11 129.93 129.68 129.53	128.08 127.90 127.71 127.56 127.46
LOW	139.97	130.01	130.03	130.20	130.74	132.54	135.13	134.95	129.69	127.78	130.19	130.02
		WATER LEV	FI. IN FF	ET DELON	I AND GUDE	ACE DAMIN	WARED W		1005			
DAILY	LOWEST VA		BD, IN FB	EI BELOW	LAND-SURF	ACE DATUM	, WAIER I	EAR OCTOR	ER 1995 T	O SEPTEMB	ER 1996	
DAILY DAY	LOWEST VAI		DEC DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	ER 1996 AUG	SEP
		LUES										SEP 128.25 127.94 127.65 127.37 127.06
DAY 1 2 3 4	OCT 127.43 127.40 127.38 127.28	NOV 126.22 126.18 126.15 126.11	DEC 125.39 125.35 125.40 125.40	JAN 125.57 125.57 125.55 125.61	FEB 125.39 125.37 125.33 125.33	MAR 	APR	MAY 123.06 123.00 122.95 122.92	JUN 121.70 121.62 121.60 121.57	JUL 122.13 122.32 122.51 122.76	AUG 127.03 126.85 126.73 126.68	128.25 127.94 127.65 127.37
DAY 1 2 3 4 5 6 7 8 9	OCT 127.43 127.40 127.38 127.28 127.14 127.09 127.05 126.97 126.93 126.86	NOV 126.22 126.18 126.15 126.11 126.03 125.90 125.85 125.85 125.85	DEC 125.39 125.35 125.40 125.40 125.40 125.45 125.56 125.55 125.55 125.55	JAN 125.57 125.57 125.55 125.61 125.61 125.61 125.60 125.60 125.60	FEB 125.39 125.37 125.33 125.33 125.28 125.24 125.21	MAR	APR	MAY 123.06 123.00 122.95 122.92 122.92 122.85 122.85 122.85 122.85	JUN 121.70 121.62 121.60 121.57 121.47 121.40 121.38 121.35 121.25 121.18	JUL 122.13 122.32 122.51 122.76 122.99 123.15 123.20 123.20 123.14 123.11 123.21	AUG 127.03 126.85 126.73 126.68 126.61 126.53 126.52 126.59 126.62	128.25 127.94 127.65 127.37 127.06 126.83 126.70 126.60 126.45 126.36
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 127.43 127.40 127.38 127.28 127.14 127.09 127.05 126.97 126.93 126.66 126.74 126.67 126.61	NOV 126.22 126.18 126.15 126.11 126.03 125.90 125.85 125.85 125.80 125.78 125.82 125.83 125.83 125.88	DEC 125.39 125.35 125.40 125.40 125.40 125.45 125.46 125.55 125.55 125.55 125.55 125.543 125.43	JAN 125.57 125.55 125.61 125.61 125.60 125.60 125.62 125.62 125.62 125.60 125.60 125.60	FEB 125.39 125.37 125.33 125.33 125.28 125.24 125.21 125.19	MAR	APR 124.06 124.05 124.02 123.99 123.99	MAY 123.06 123.00 122.95 122.92 122.92 122.89 122.85 122.85 122.85 122.85 122.85 122.85	JUN 121.70 121.62 121.60 121.57 121.47 121.40 121.38 121.35 121.25 121.18 121.20 121.31 121.42 121.55	JUL 122.13 122.32 122.51 122.76 122.99 123.15 123.20 123.20 123.21 123.21 123.35 123.35	AUG 127.03 126.85 126.73 126.68 126.61 126.52 126.52 126.62 126.62 126.44 126.31 126.34	128.25 127.94 127.65 127.37 127.06 126.83 126.70 126.60 126.45 126.36
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 127.43 127.40 127.38 127.28 127.14 127.09 127.05 126.97 126.93 126.66 126.61 126.61 126.61 126.61 126.60 126.56 126.60 126.78	NOV 126.22 126.18 126.15 126.11 126.03 125.90 125.85 125.85 125.80 125.78 125.82 125.83 125.83 125.83 125.89 125.91 125.81	DEC 125.39 125.40 125.40 125.45 125.45 125.55	JAN 125.57 125.55 125.61 125.61 125.60 125.60 125.62 125.62 125.62 125.62 125.63 125.64 125.54 125.47 125.47	FEB 125.39 125.37 125.33 125.28 125.24 125.21 125.19	MAR	APR 124.06 124.05 124.02 123.99 123.95 123.95 123.86 123.77 123.77	MAY 123.06 123.00 122.95 122.92 122.92 122.89 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85 122.85	JUN 121.70 121.62 121.60 121.57 121.47 121.40 121.38 121.25 121.18 121.20 121.31 121.42 121.55 121.69 121.76 121.76 121.76 121.76	JUL 122.13 122.32 122.51 122.76 122.99 123.15 123.20 123.20 123.21 123.31 123.31 123.31 123.31 123.71 123.90 124.15 124.49 124.49 124.86	AUG 127.03 126.85 126.73 126.68 126.61 126.53 126.59 126.62 126.62 126.62 126.44 126.31 126.34 126.46 126.57 126.59 126.59	128.25 127.94 127.65 127.37 127.06 126.83 126.70 126.45 126.36 126.34 126.33 126.28 126.16 126.03 125.86 125.79 125.69
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 127.43 127.40 127.38 127.14 127.09 127.05 126.97 126.93 126.86 126.61 126.61 126.61 126.60 126.56 126.78 126.88 126.88 126.88 126.88 126.88	NOV 126.22 126.18 126.15 126.11 126.03 125.90 125.85 125.80 125.78 125.82 125.83 125.89 125.89 125.89 125.89 125.89 125.89 125.88 125.89 125.88 125.89 125.88 125.89 125.81 125.86 125.86 125.86 125.86 125.87	DEC 125.39 125.40 125.40 125.45 125.45 125.56 125.56 125.56 125.56	JAN 125.57 125.55 125.61 125.61 125.61 125.60 125.60 125.62 125.62 125.62 125.63 125.54 125.47 125.47 125.46 125.45 125.45 125.45	FEB 125.39 125.37 125.33 125.28 125.24 125.21 125.19	MAR	APR 124.06 124.05 124.02 123.99 123.95 123.95 123.86 123.77 123.70 123.62 123.60 123.59 123.59	MAY 123.06 123.00 122.95 122.92 122.92 122.85	JUN 121.70 121.60 121.57 121.47 121.40 121.38 121.35 121.25 121.18 121.20 121.31 121.42 121.55 121.69 121.76 121.76 121.77 121.78 121.78 121.78 121.78 121.78 121.78	JUL 122.13 122.32 122.51 122.76 122.99 123.15 123.20 123.20 123.21 123.21 123.21 123.21 123.35 123.71 123.90 124.15 124.49 124.86 125.34 125.77 126.05 126.35 126.67	AUG 127.03 126.85 126.73 126.68 126.61 126.52 126.59 126.62 126.62 126.44 126.31 126.34 126.46 126.59 126.69 126.59	128.25 127.94 127.65 127.37 127.06 126.83 126.70 126.45 126.36 126.34 126.33 126.28 126.16 125.86 125.86 125.86 125.86 125.79 125.69 125.54

WATER	LEVEL,	IN	FEET	BELOW	LAND-	-SURFACE	DATUM,	WATER	YEAR	OCTOBER	1996	TO	SEPTEMBER	1997
						DAILY	LOWEST	VALUE	S					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		123.40	122.57			121.81	121.80	121.03	119.69	119.77		
2	124.45	123.37				121.78	121.81	120.94	119.64	119.87		
3	124.46	123.31				121.75	121.81	120.89	119.61	119.95		
4	124.41	123.26				121.72	121.80	120.85	119.60	120.06		
5	124.34	123.22				121.75	121.71	120.77	119.56	120.21		
6	124.30	123.20				121.77	121.63	120.72	119.50	120.39		
7	124.32	123.16				121.77	121.61	120.62	119.47	120.59		
8	124.33	123.16				121.77	121.65	120.54	119.47	120.82		
9	124.36	123.16				121.77	121.67	120.50	119.58	120.97		
10	124.36	123.14				121.76	121.68	120.45	119.73	121.14		
11	124.36	123.14				121.76	121.69	120.38	119.84	121.34		
12	124.33	123.03			122.31	121.78	121.70	120.35	119.88	121.52		e124.81
13	124.38	122.93			122.31	121.84	121.70	120.26	119.89	121.57		
14	124.49	122.83			122.28	121.88	121.69	120.13	119.89	121.58		
15	124.52	122.84			122.25	121.90	121.64	120.06	119.81	121.58		
16	124.52	122.84			122.22	121.90	121.63	120.00	119.71	121.74		
17	124.52	122.78			122.19	121.85	121.63	119.96	119.60	121.92		
18	124.51	122.72			122.14	121.85	121.62	119.95	119.51			
19	124.40	122.67			122.10	121.88	121.58	119.99	119.41			
20	124.25	122.62			122.06	121.88	121.53	119.99	119.35			
21	124.14	122.61			122.04	121.88	121.48	119.99	119.29			
22	124.09	122.55			122.04	121.89	121.44	119.97	119.27			
23	124.01	122.51			122.06	121.89	121.43	119.95	119.24			
24	123.91	122.53			122.09	121.89	121.40	119.95	119.25			
25	123.78	122.54			122.09	121.88	121.39	119.94	119.27			
26	123.67	122.53			122.06	121.88	121.37	119.92	119.28			
27	123.59	122.52			122.00	121.86	121.34	119.90	119.30			
28	123.58	122.49			121.88	121.80	121.26	119.89	119.37			
29	123.50	122.54				121.81	121.12	119.87	119.49			
30	123.43	122.56				121.83	121.09	119.82	119.59			
31	123.43					121.83		119.77				
LOW	124.52	123.40	122.57		122.31	121.90	121.81	121.03	119.89	121.92		124.81
		WATER LEV	EL, IN FEE	T BELOW		ACE DATUM		EAR OCTOE	SER 1997 I	O SEPTEMBE	R 1998	

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					120.92	120.92	120.80	120.51	124.52	122.11	125.03	124.63
2					120.93	120.96	120.75	120.63	124.69	122.27	124.84	124.78
3					120.95	120.97	120.72	120.73	124.84	122.44	124.68	124.89
4					120.95	120.97	120.71	120.88	124.95	122.52	124.51	125.02
5					120.95	120.97	120.64	121.01	125.01	122.52	124.33	125.18
					100.06	100 05	100 55	101 10	105 01	100 50	104 10	105 40
6					120.96	120.97	120.57	121.19	125.01	122.50	124.12	125.40
7					120.96	120.97	120.51	121.42	125.01	122.47	123.92	125.59
8					120.96	121.00	120.48	121.64	124.91	122.55	123.70	125.66
9					120.95	121.05	120.45	121.78	124.73	122.73	123.50	125.68
10					120.99	121.09	120.42	121.85	124.52	122.90	123.36	125.74
11					121.01	121.14	120.38	121.86	124.30	123.09	123.25	125.86
12					121.04	121.14	120.30	121.86	124.14	123.29	123.20	125.98
13					121.04	121.14	120.19	121.82	124.05	123.47	123.14	126.00
14					121.04	121.14	120.15	121.76	124.02	123.67	123.12	126.00
15					121.04	121.14	120.12	121.85	124.02	123.95	123.10	125.91
16					121.03	121.14	120.12	122.05	124.00	124.23	123.07	125.74
17					121.02	121.14	120.11	122.23	123.86	124.55	123.04	125.55
18					121.02	121.12	120.09	122.49	123.71	124.88	123.08	125.38
19					121.02	121.14	120.06	122.77	123.47	125.26	123.14	125.22
20					121.03	121.15	120.05	122.97	123.25	125.59	123.20	125.08
20					121.05	121.10	120.00	100.,,	123.23	120.00	123.20	125.00
21					121.03	121.16	120.05	123.06	123.10	125.86	123.21	125.01
22					121.02	121.16	120.05	123.06	122.93	126.09	123.21	124.90
23					120.99	121.16	120.05	123.06	122.78	126.29	123.20	124.75
24					120.99	121.16	120.00	123.00	122.61	126.36	123.21	124.58
25					120.99	121.14	119.93	123.04	122.44	126.36	123.33	124.44
26					120.93	121.09	119.96	123.09	122.29	126.29	123.49	124.32
27					120.88	121.04	120.05	123.25	122.16	126.06	123.63	124.24
28					120.89	120.98	120.14	123.51	122.08	125.80	123.80	124.18
29				120.92		120.93	120.24	123.82	122.05	125.56	124.00	124.08
30				120.92		120.90	120.37	124.06	122.02	125.38	124.19	123.97
31				120.92		120.85		124.31		125.22	124.42	
LOW				120.92	121.04	121.16	120.80	124.31	125.01	126.36	125.03	126.00

e Estimated

SITE NUMBER FROM LOCATION MAP.—14.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—5N4E22ADDA.

SITE ID (STATION NUMBER).—442301103365501.

OTHER IDENTIFIER.—LA-96D and Boulder Canyon Mdsn.

LOCATION.—Lat 43°23′01″, long 103°36′55″, in NE1/4SE¹/4SE¹/4NE¹/4 sec. 22, T. 5 N., R. 4 E., Hydrologic Unit 10120203, 7 mi west of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 560 ft deep with 485 ft of 5-in. steel casing; open hole from 485 to 560 ft.

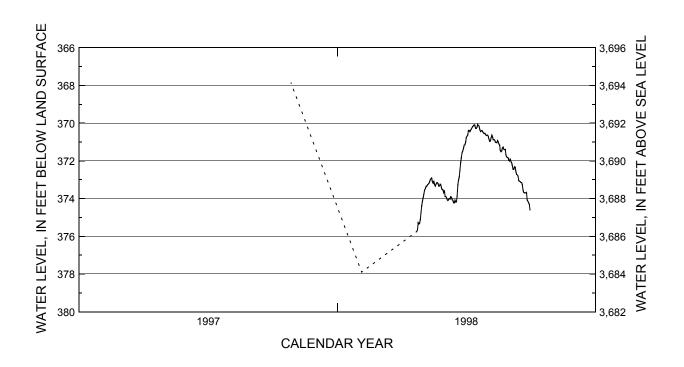
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 4,062 ft above sea level. Measuring point: Top of casing 1.6 ft above land surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—October 1997 to September 1998.

EXTREMES.—Highest daily water level, 367.85 ft (estimated) below land-surface datum, Oct. 27, 1997; lowest daily water level, 377.90 ft below land-surface datum, Feb. 4, 1998.



SITE NUMBER 14—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								374.13	373.57	371.01	370.64	372.01
2								373.96	373.89	370.74	370.70	371.88
3								373.76	373.89	370.70	370.86	372.05
4					e377.90			373.55	373.97	370.63	370.97	372.10
5								373.49	374.07	370.39	370.95	372.24
6								373.35	374.11	370.39	370.78	372.46
7								373.35	374.05	370.45	370.64	372.46
8								373.27	374.00	370.39	370.73	372.32
9								373.24	374.03	370.31	370.88	372.33
10								373.21	373.90	370.25	370.87	372.56
11								373.12	373.93	370.17	370.90	372.72
12								373.01	374.07	370.16	371.01	372.75
13								372.95	374.09	370.09	371.03	372.79
14								372.91	374.22	370.11	371.04	373.05
15								373.11	374.23	370.28	370.93	373.08
16								373.19	374.09	370.29	371.00	373.10
17								373.06	374.19	370.22	371.10	373.15
18								373.24	374.18	370.08	371.16	373.15
19								373.34	373.90	370.12	371.46	373.26
20								373.25	373.26	370.16	371.52	373.54
21								373.17	373.02	370.35	371.48	373.67
22								373.15	372.86	370.45	371.31	373.70
23							375.75	373.20	372.49	370.42	371.27	373.70
24							375.65	373.34	372.09	370.39	371.40	373.70
25							375.28	373.34	371.84	370.45	371.41	373.67
26							375.35	373.24	371.55	370.52	371.39	374.08
27	e367.85						375.32	373.29	371.48	370.55	371.70	374.15
28							375.11	373.46	371.33	370.53	371.80	374.22
29							374.74	373.53	371.16	370.59	371.82	374.31
30							374.36	373.53	371.15	370.66	371.84	374.62
31								373.69		370.64	371.97	
LOW	367.85				377.90		375.75	374.13	374.23	371.01	371.97	374.62

e Estimated

SITE NUMBER FROM LOCATION MAP.—15.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—5N4E14ADD.

SITE ID (STATION NUMBER).—442344103253401.

OTHER IDENTIFIER.—LA-63A and Boulder Canyon Mnls.

LOCATION.—Lat 43°23′43.6″, long 103°35′25.9″, in SE¹/4SE¹/4NE¹/4 sec. 14, T. 5 N., R. 4 E., Hydrologic Unit 10120203, 6 mi west of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 507 ft deep with 388 ft of 3.5-in. steel casing; open hole from 388 to 507 ft.

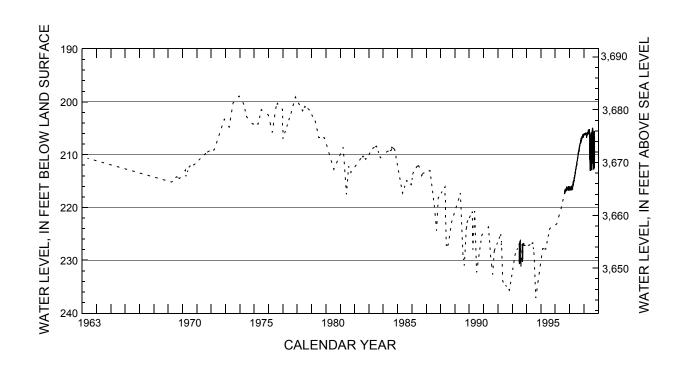
INSTRUMENTATION.—Electronic data logger with pressure transducer. Prior to July 1, 1993, intermittent taped measurements.

DATUM.—Elevation of land-surface datum is 3,881.5 ft above sea level. Measuring point: Prior to June 30, 1993, top of steel casing, 0.7 ft above land-surface datum. After June 30, 1999, top of PVC liner, 1.49 ft above land-surface datum.

REMARKS.—Available records good. Water levels affected by pumping of nearby well.

PERIOD OF RECORD.—May 1963, April 1969 to September 1998.

EXTREMES.—Highest daily water level, 198.9 ft (estimated) below land-surface datum, Dec. 10, 1973; lowest daily water level, 237.15 ft (estimated) below land-surface datum, Aug. 24, 1994.



SITE NUMBER 15—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 ------___ ------___ ---___ --------e227.9 ___ ___ ___ ------___ ___ ------------5 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 8 ------------------------------------10 --___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 13 ---14 15 e227.8 16 e224.0 17 ___ ___ ---------------18 ------------------------19 20 21 ---------23 ___ ___ ___ ___ ___ ___ ___ ___ ___ ---___ ___ ---------------------------------24 ---25 26 28 29 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------30 31 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ LOW 227.80 227.90 224.00 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC FEB JUN JUL AUG SEP JAN MAR APR MAY 217.02 1 217.06 217.05 ___ ___ ---___ ___ ___ ---------------------------4 5 e220.05 ---217.05 216.95 6 7 e223.19 ___ 217.17 217.14 ---------------------------217.00 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 10 ---------------------------------217.13 11 ___ 217.14 ___ ___ ___ ___ ___ ---___ ___ ---------217.02 216.74 12 13 ___ ------___ ------------___ ___ 14 15 ---___ ---___ ___ ------___ ___ ___ ---216.55 ____ 216.64 16 ___ ___ ___ ___ ___ 216.64 ---------------------------216.88 216.89 17 ------___ 19 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 216.83 ---------------------2.0 ------------216.61 21 216.66 ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 216.74 216.91 22 ------23 ------------24 25 ------___ ___ ---------------------216.61 26 216.60 ------217.24 217.33 216.60 216.64 2.7 ------------------------28 ------217.41 30 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 217 34 216.46 31 217.09

223.19

220.05

217.41

217.17

T.OW

e Estimated

SITE NUMBER 15—Continued

DAILY	LOWEST VA		EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM,	WATER	YEAR OCTOE	ER 1996	TO SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	216.85 216.98 216.68 216.49 216.59	216.58 216.58 216.37 216.34 216.32	216.12 216.36 216.41 216.34 215.99	216.27 216.18 216.14 216.47 216.60	216.36 216.37 216.51 216.61 216.58	216.22 216.20 216.32 216.46 216.52	215.76 215.85 215.62 215.09 215.22	214.29 214.59 214.64 214.54 214.51	213.10 213.10 213.19 213.19 212.89	211.74 211.87 211.91 211.89 211.70	210.40 210.36 210.34 210.41 210.30	209.29 209.36 209.15 208.82 208.80
6 7 8 9 10	216.68 216.60 216.49 216.64 216.59	216.31 216.61 216.62 216.53 216.44	216.21 216.50 216.46 216.17 216.07	216.61 216.35 216.33 216.34 216.43	216.46 216.50 216.41 216.50 216.56	216.50 216.30 216.42 216.55 216.34	215.39 215.73 215.73 215.49 215.43	214.40 214.29 214.47 214.47 214.22	212.86 212.81 212.77 212.82 212.82	211.57 211.48 211.50 211.39 211.17	210.23 210.15 209.70 210.03 210.05	208.68 208.73 208.81 208.80 208.57
11 12 13 14 15	216.33 216.46 216.46 216.43 216.40	216.60 216.58 216.55 216.27 216.24	216.39 216.45 216.57 216.83 216.83	216.65 216.72 216.64 216.24 216.68	216.42 216.39 216.33 216.38 216.44	216.34 216.30 216.61 216.59 216.36	215.43 215.30 215.11 215.01 215.30	214.22 214.09 213.94 213.98 213.98	212.57 212.57 212.59 212.54 212.44	211.20 211.19 211.22 211.26 211.18	209.88 209.88 209.82 209.52 209.48	208.35 208.43 208.51 208.44 208.41
16 17 18 19 20	216.33 216.57 216.53 216.06 216.47	216.28 216.31 216.29 216.16 216.43	216.40 216.62 216.53 216.40 216.11	216.72 216.52 216.38 216.38 216.20	216.39 216.16 216.43 216.42 216.40	216.11 216.47 216.62 216.38 216.10	215.29 215.03 214.88 214.79 214.79	213.84 213.79 213.92 213.92 213.77	212.60 212.43 212.46 212.32 212.24	211.01 211.01 210.99 211.01 210.97	209.78 209.77 209.57 209.61 209.61	208.35 208.40 208.06
21 22 23 24 25	216.59 216.52 216.38 216.38 216.15	216.42 216.29 216.64 216.64 216.56	216.19 216.33 216.57 216.52 216.38	216.12 216.35 216.21 216.51 216.53	216.42 216.65 216.72 216.74 216.33	216.06 215.96 215.93 215.92 215.93	214.75 214.85 214.84 214.88 214.88	213.63 213.59 213.59 213.45 213.37	212.24 212.20 212.13 212.16 212.20	210.92 210.80 210.68 210.61 210.59	209.50 209.45 209.41 209.26 209.33	208.23 208.25 208.31 208.16 208.00
26 27 28 29 30 31	216.87 216.87 216.67 216.48 216.62 216.62	216.64 216.59 216.19 216.25 216.27	216.35 216.30 216.30 216.32 216.46 216.39	216.49 216.79 216.60 216.56 216.23 216.11	216.08 215.89 216.14 	215.71 215.52 215.63 215.77 215.75 215.50	214.80 214.69 214.41 214.43 214.47	213.54 213.56 213.54 213.32 213.35 213.21	212.15 211.83 211.86 211.83 211.72	210.56 210.67 210.71 210.63 210.51 210.37	209.23 209.10 209.06 209.05 209.07 208.96	207.83 207.84 207.89 207.89 207.93
LOW	216.98	216.64	216.83	216.79	216.74	216.62	215.85	214.64	213.19	211.91	210.41	209.36
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM,			ER 1997	TO SEPTEME	BER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW					ER 1997 JUN	TO SEPTEME	BER 1998 AUG	SEP
DAY 1 2 3 4 5					Dž	AILY LOWES	T VALUES	}				SEP 211.33 211.91 212.09 211.88 212.52
1 2 3 4	OCT 207.86 207.68 207.65 207.65	NOV 207.06 207.14 207.07 207.08	DEC 206.45 206.56 206.54 206.56	JAN 206.04 206.28 206.36 206.13	FEB 206.08 206.23 206.21 205.97	MAR 206.33 206.36 206.21 206.20	APR 206.12 206.29 206.32 206.15	MAY 205.55 205.62 205.66 205.52	JUN 210.85 211.05 210.97 211.37	JUL 206.40 206.10 206.03 205.94	AUG 205.53 205.52 205.51 205.57	211.33 211.91 212.09 211.88
1 2 3 4 5 6 7 8 9	OCT 207.86 207.68 207.65 207.70 207.76 207.76 207.54 207.64 207.52	NOV 207.06 207.14 207.07 207.08 207.11 206.98 206.84 207.05 207.06	DEC 206.45 206.56 206.54 206.56 206.58 206.49 206.15 206.13 206.53	JAN 206.04 206.28 206.36 206.13 206.25 206.33 206.20 206.07 206.16 206.19	D2 FEB 206.08 206.23 206.21 205.97 206.16 206.17 206.04 205.97 206.16 206.25	MAR 206.33 206.36 206.21 206.20 206.28 206.29 206.40 206.49 206.59 206.84	APR 206.12 206.29 206.32 206.15 205.84 205.94 206.04 206.14 206.19 206.17	MAY 205.55 205.62 205.66 205.52 205.58 205.47 205.47 205.47 205.43 205.39 205.40	JUN 210.85 211.05 210.97 211.37 211.81 212.39 212.23 212.53 209.38 212.80	JUL 206.40 206.10 206.03 205.94 205.78 205.78 205.81 211.48 211.98	AUG 205.53 205.52 205.51 205.57 205.52 205.25 205.08 205.03 205.12 205.03	211.33 211.91 212.09 211.88 212.52 212.82 207.44 211.92 212.30 211.75
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 207.86 207.68 207.65 207.70 207.76 207.54 207.61 207.62 207.21 207.45 207.61 207.761	NOV 207.06 207.14 207.07 207.08 207.11 206.98 206.84 207.05 207.06 206.95 206.67 206.67 206.98	DEC 206.45 206.56 206.54 206.58 206.49 206.15 206.13 206.53 206.78 206.83 206.66 206.51 206.45	JAN 206.04 206.28 206.36 206.13 206.25 206.33 206.20 206.07 206.16 206.19 206.16 206.11 206.11	DE FEB 206.08 206.23 206.21 205.97 206.16 206.17 206.04 205.97 206.16 206.25 206.19 206.09 206.09	MAR 206.33 206.36 206.21 206.20 206.28 206.29 206.40 206.59 206.84 206.72 206.28 206.39 206.37	APR 206.12 206.29 206.32 206.15 205.84 205.94 206.04 206.14 206.17 205.91 205.71 205.94	MAY 205.55 205.62 205.66 205.52 205.58 205.47 205.47 205.45 205.39 205.40 205.28 205.20	JUN 210.85 211.05 210.97 211.37 211.81 212.39 212.53 209.38 212.80 212.82 212.30 212.81	JUL 206.40 206.10 206.03 205.94 205.94 205.81 211.48 211.98 211.93 212.14 206.76 211.18 211.50	AUG 205.53 205.52 205.57 205.52 205.25 205.03 205.12 205.03 204.94 210.83 211.56 211.70	211.33 211.91 212.09 211.88 212.52 212.82 207.44 211.92 212.30 211.75 212.70 212.77 207.20 206.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 207.86 207.68 207.65 207.76 207.76 207.54 207.61 207.62 207.12 207.81 207.71 207.81	NOV 207.06 207.14 207.07 207.08 207.11 206.98 206.84 207.05 207.06 206.95 206.65 206.67 206.98 206.93	DEC 206.45 206.56 206.54 206.56 206.58 206.49 206.15 206.78 206.83 206.66 206.51 206.45 206.37	JAN 206.04 206.28 206.36 206.13 206.25 206.33 206.20 206.07 206.16 206.19 206.10 206.11 206.17 205.95 206.11 206.13 206.29 206.11	Di FEB 206.08 206.23 206.21 205.97 206.16 206.04 205.97 206.16 206.25 206.19 206.09 206.04 205.88	MAR 206.33 206.36 206.21 206.20 206.28 206.29 206.40 206.59 206.84 206.72 206.28 206.72 206.37 206.31 206.37 206.31	T VALUES APR 206.12 206.29 206.32 206.15 205.84 205.94 206.19 206.17 205.91 205.71 205.91 205.93 205.93	MAY 205.55 205.66 205.56 205.58 205.47 205.47 205.45 205.39 205.40 205.28 205.20 205.49 205.39 205.61	JUN 210.85 211.05 210.97 211.37 211.81 212.39 212.53 209.38 212.80 212.81 213.05 207.82 212.52 208.00 207.09 206.93	JUL 206.40 206.10 206.03 205.94 205.94 205.81 211.48 211.98 211.93 212.14 206.76 211.18 211.50 212.27	AUG 205.53 205.52 205.51 205.57 205.52 205.08 205.03 205.12 205.03 204.94 210.83 211.56 211.70 206.13 206.35 205.45 205.29 211.11	211.33 211.91 212.09 211.88 212.52 212.82 207.44 211.92 212.30 211.75 212.70 212.77 207.20 206.68 211.98 212.22 211.61 206.89 206.10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0CT 207.86 207.68 207.65 207.76 207.76 207.76 207.54 207.61 207.64 207.52 207.21 207.45 207.71 207.81 207.41 207.41 207.41 207.41 207.41 207.41 207.41 207.41	NOV 207.06 207.14 207.07 207.08 207.11 206.98 206.84 207.05 206.95 206.65 206.67 206.98 206.66 206.66 206.66 206.66 206.66 206.65 206.65 206.65 206.65 206.65	DEC 206.45 206.56 206.54 206.56 206.58 206.49 206.15 206.78 206.83 206.66 206.51 206.45 206.37 206.45 206.36 206.45 206.36 206.41 206.36 206.45	JAN 206.04 206.28 206.36 206.13 206.25 206.33 206.20 206.07 206.16 206.19 206.10 206.11 206.17 205.95 206.11 206.13 206.20 206.15 206.18 206.28 206.19	Di FEB 206.08 206.23 206.21 205.97 206.16 206.17 206.04 205.97 206.16 206.25 206.19 206.09 206.02 206.20 206.24 206.15	MAR 206.33 206.36 206.21 206.20 206.28 206.29 206.40 206.59 206.84 206.72 206.28 206.72 206.28 206.37 206.31 206.33 206.31 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.45 206.30 206.33	T VALUES APR 206.12 206.29 206.32 206.15 205.84 205.94 206.17 205.91 205.71 205.91 205.93 205.93 205.95 205.95 205.95 205.95 205.95 205.95 205.97 205.80	205.55 205.66 205.52 205.66 205.52 205.58 205.47 205.47 205.49 205.28 205.20 205.49 205.28 205.39 205.61 205.60 205.59 205.61 205.60	JUN 210.85 211.05 210.97 211.37 211.81 212.39 212.53 209.38 212.80 212.82 212.30 212.81 213.05 207.82 212.52 208.00 206.93 206.88 206.88 206.88 206.88	JUL 206.40 206.10 206.03 205.94 205.81 211.48 211.93 212.14 206.76 211.18 211.50 212.27 212.77 212.94 210.19 212.45 212.77 207.32 206.87	AUG 205.53 205.52 205.51 205.52 205.08 205.03 205.12 205.03 204.94 210.83 211.56 211.70 206.13 206.35 205.45 205.29 211.11 211.47 206.12 205.50 210.83 211.27	211.33 211.91 212.09 211.88 212.52 212.82 207.44 211.92 212.30 211.75 212.70 206.68 211.98 212.22 211.61 206.89 206.10 206.12

SITE NUMBER FROM LOCATION MAP.—16.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—5N4E1ABBD2.

SITE ID (STATION NUMBER).—442545103343702.

OTHER IDENTIFIER.—LA-90A and Whitewood Mdsn.

LOCATION.—Lat 44°25′44.3″, long 103°34′37.1″, in SE¹/4NW¹/4NW¹/4NE¹/4 sec. 1, T. 5 N., R. 4 E., Hydrologic Unit 10120202, 2 mi west of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 822 ft deep with 794 ft of 5-in. steel casing; open hole from 794 to 822 ft.

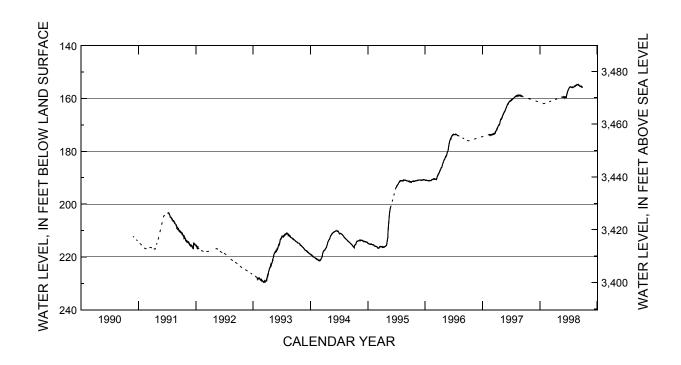
INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- one reading per day from July 1991 to January 1992. Monthly tape down from Nov. 27, 1990, to June 11, 1991, and Jan. 16 to Sept. 25, 1992.

DATUM.—Elevation of land-surface datum is 3,629.7 ft above sea level. Measuring point: Top of steel casing, 2.1 ft above land-surface datum.

REMARKS.—Electronic data logger records poor; tape down records good.

PERIOD OF RECORD.—November 1990 to September 1998.

EXTREMES.—Highest daily water level, 154.69 ft below land-surface datum, Aug. 27, 28, 31, 1998; lowest daily water level, 229.75 ft below land-surface datum, Mar. 12, 1993.



SITE NUMBER 16—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY OBSERVATION AT 1200 HOURS

					DAILY OF	BSERVATIO	N AT 1200	HOURS				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	216.23 216.23 216.28 216.33 216.41	213.99 213.96 213.91 213.91 213.84	213.91 213.97 214.00 214.03 214.08	214.70 214.74 214.82 214.91 214.98	215.42 215.43 215.39 215.37 215.41	216.23 216.33 216.37 216.50 216.64	216.18 216.20 216.18 216.29 216.23	215.41 215.10 214.70 214.29 213.91	 	193.67 193.58 193.45 193.35 193.10	191.13 191.10 191.11 191.11 191.15	191.05 191.05 191.07 191.12 191.14
6 7 8 9 10	216.51 216.04 215.71 215.56 215.49	213.85 213.77 213.72 213.71 213.65	214.14 214.05 214.09 214.10 214.14	215.05 215.00 215.01 215.00 215.06	215.42 215.42 215.49 215.64 215.73	216.63 216.59 216.65 216.65 216.70	216.29 216.26 216.33 216.32 216.32	213.56 213.14 212.72 211.46 210.38		193.12 193.01 192.87 192.69 192.62	191.16 191.18 191.13 191.26 191.24	191.11 191.19 191.23 191.20 191.24
11 12 13 14 15	215.47 215.44 215.43 215.41 215.41	213.65 213.74 213.66 213.63 213.68	214.22 214.19 214.27 214.28 214.29	215.12 215.12 215.09 215.17 215.23	215.75 215.81 215.90 215.93 215.96	216.77 216.65 216.53 216.42 216.35	216.35 216.22 216.30 216.33 216.31	209.45 208.65 207.85 206.98 206.17	 	192.59 192.53 192.42 192.33 192.21	191.24 191.10 191.07 191.14 191.18	191.21 191.21 191.21 191.40 191.37
16 17 18 19 20	215.28 215.13 214.90 214.68 214.50	213.73 213.82 213.71 213.73 213.76	214.32 214.24 214.30 214.29 214.28	215.28 215.26 215.19 215.19 215.18	215.94 216.00 215.96 216.02 215.99	216.19 216.18 216.14 216.16 216.17	216.22 216.27 216.20 216.19 216.15	205.46 204.82 204.23 203.65 203.20	 	192.06 191.95 191.83 191.77 191.73	190.86 190.88 190.85 190.97 190.92	191.38 191.40 191.43 191.44 191.40
21 22 23 24 25	214.42 214.27 214.17 214.09 214.03	213.65 213.63 213.65 213.66 213.73	214.29 214.29 214.33 214.42 214.40	215.22 215.21 215.22 215.17 215.24	216.03 216.03 216.01 216.04 216.07	216.20 216.21 216.19 216.16 216.09	216.04 216.01 215.99 215.97 215.89	202.76 202.35 201.99 201.63 201.38		191.57 191.59 191.48 191.39 191.25	190.90 190.89 190.99 190.97 190.96	191.55 191.56 191.40 191.50 191.54
26 27 28 29 30 31	214.02 214.01 214.03 213.95 213.93 213.95	213.79 213.89 213.85 213.91 213.90	214.45 214.45 214.55 214.56 214.62 214.71	215.30 215.30 215.30 215.31 215.35 215.40	216.11 216.13 216.19 	216.14 216.10 216.10 216.14 216.15 216.16	215.89 215.82 215.76 215.71 215.59	201.12 201.07 	193.98 193.83 193.75	191.35 191.25 191.18 191.21 191.11 191.12	190.99 190.93 190.95 190.99 190.97 191.00	191.54 191.54 191.57 191.58 191.56
LOW	216.51	213.99	214.71	215.40	216.19	216.77	216.35	215.41	193.98	193.67	191.26	191.58
		WATER LEV	EL, IN FE	ET BELOW			M, WATER Y N AT 1200		ER 1995 T	TO SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN					ER 1995 I	TO SEPTEMB	ER 1996 AUG	SEP
DAY 1 2 3 4 5					DAILY OF	BSERVATIO	N AT 1200	HOURS				SEP
1 2 3 4	OCT 191.62 191.58 191.72 191.63	NOV 191.18 191.18 191.13 191.16	DEC 190.96 190.94 190.90 190.95	JAN 190.91 190.99 191.01 190.96	DAILY OF FEB 191.11 191.13 191.09 191.10	MAR 190.47 190.49 190.59 190.54	APR 187.97 187.86 187.60 187.42	MAY 183.36 183.21 183.10 183.06	JUN 177.47 177.13 176.88 176.62	JUL 173.48 173.70 173.66 173.71	AUG 	
1 2 3 4 5 6 7 8 9	OCT 191.62 191.58 191.72 191.63 191.56 191.63 191.44	NOV 191.18 191.18 191.16 191.18 191.18 191.15	DEC 190.96 190.94 190.95 190.91 190.90 190.91 190.99 190.99	JAN 190.91 190.99 191.01 190.96 190.97 190.97 190.99 190.96 190.97	DAILY OF FEB 191.11 191.13 191.09 191.10 191.11 191.06 191.07 191.08 190.97	MAR 190.47 190.49 190.59 190.60 190.60 190.58 190.66	APR 187.97 187.86 187.60 187.42 187.31 187.22 187.01 186.88 186.84	MAY 183.36 183.21 183.10 183.06 182.89 182.78 182.71 182.46 182.27	JUN 177.47 177.13 176.88 176.62 176.30 176.05 175.91 175.75	JUL 173.48 173.70 173.66 173.71 173.69 173.68 173.68 173.66 173.66	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 191.62 191.58 191.72 191.63 191.56 191.63 191.44 191.44 191.44 191.38 191.38 191.37	NOV 191.18 191.18 191.16 191.18 191.15 191.17 191.13 191.06 191.02 190.99	DEC 190.96 190.94 190.95 190.91 190.90 190.94 190.99 190.93 190.96 190.99 191.03 190.94 190.99	JAN 190.91 190.99 191.01 190.96 190.97 190.97 190.99 190.98 190.99 191.01 191.05 191.04	DAILY OF FEB 191.11 191.13 191.09 191.10 191.11 191.06 191.07 191.08 190.97 190.82 190.75 190.75 190.75	MAR 190.47 190.49 190.59 190.54 190.60 190.56 190.60 190.57 190.60 190.69 190.69	APR 187.97 187.86 187.60 187.42 187.31 187.22 187.01 186.88 186.84 e186.66 186.34 186.31 186.25	MAY 183.36 183.21 183.10 183.06 182.89 182.78 182.71 182.46 182.27 182.17 181.94 181.84 181.82 181.91	JUN 177.47 177.13 176.88 176.62 176.05 175.91 175.75 175.71 175.43 175.35 175.10 175.00	JUL 173.48 173.70 173.66 173.71 173.69 173.68 173.68 173.65 173.59 173.57 173.56	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 191.62 191.58 191.72 191.63 191.56 191.63 191.50 191.44 191.41 191.38 191.37 191.36 191.37 191.32	NOV 191.18 191.18 191.16 191.18 191.15 191.17 191.13 191.06 191.02 190.99 190.99 190.99	DEC 190.96 190.99 190.95 190.91 190.90 190.94 190.99 190.93 190.96 190.99 191.03 190.94 190.99 191.03 190.86 190.86 190.81 190.80	JAN 190.91 190.99 191.01 190.96 190.97 190.97 190.99 190.98 190.99 191.01 191.05 191.04 191.09	DAILY OF FEB 191.11 191.13 191.09 191.10 191.11 191.06 191.07 190.82 190.79 190.75 190.64 190.66 190.71	MAR 190.47 190.49 190.59 190.54 190.60 190.58 190.60 190.57 190.60 190.69 190.49	APR 187.97 187.86 187.60 187.42 187.31 187.22 187.01 186.88 186.84 e186.66 186.31 186.25 186.21 186.12 186.10 185.92 185.40	MAY 183.36 183.21 183.10 183.06 182.89 182.78 182.71 182.46 182.27 182.17 181.94 181.84 181.82 181.91 181.72 181.64 181.45 181.22 180.89	JUN 177.47 177.13 176.88 176.62 176.30 176.05 175.91 175.75 175.71 175.43 175.35 175.10 175.00 175.15 174.71 174.60 174.57 174.41 174.26	JUL 173.48 173.70 173.66 173.71 173.69 173.68 173.65 173.56 173.57 173.56 173.57 173.56 173.63 173.51 173.65 173.65 173.66 173.66 173.66	AUG	
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 27 28 29 30 20 21 21 21 21 21 21 21 21 21 21 21 21 21	OCT 191.62 191.58 191.72 191.63 191.56 191.63 191.50 191.44 191.44 191.41 191.38 191.37 191.32 191.37 191.32 191.37 191.32 191.37 191.32 191.37 191.32 191.37 191.34 191.32 191.33	NOV 191.18 191.18 191.16 191.18 191.15 191.17 191.13 191.06 191.02 190.99 190.99 190.97 190.92 190.94 190.88 190.86 190.87 190.86 190.87	DEC 190.96 190.94 190.99 190.95 190.91 190.90 190.93 190.96 190.99 191.03 190.94 190.90 190.86 190.81 190.79 190.79 190.79 190.79 190.79 190.79 190.81 190.84 190.881	JAN 190.91 190.99 191.01 190.96 190.97 190.97 190.98 190.99 191.01 191.05 191.04 191.09 191.06 191.13 191.10 191.06 191.11 191.08 191.11 191.08	DAILY OF FEB 191.11 191.13 191.09 191.10 191.11 191.08 190.97 190.82 190.79 190.75 190.75 190.64 190.76 190.71 190.66 190.71 190.66 190.71 190.63 190.63 190.50 190.44 190.37	MAR 190.47 190.49 190.59 190.54 190.60 190.58 190.60 190.57 190.60 190.49 190.49 190.49 190.49 190.49 190.40 190.40 190.13 189.90 190.40 190.13 189.90 189.64 188.46 188.59 188.88 188.89 188.46 188.59 188.46 188.47 188.13	N AT 1200 APR 187.97 187.86 187.60 187.42 187.31 187.22 187.01 186.88 186.84 e186.66 186.31 186.25 186.21 186.12 186.10 185.92 185.40 185.20 184.92 185.40 185.20 184.92 184.56 184.55 184.14 183.97 183.69 183.48	MAY 183.36 183.21 183.10 183.06 182.89 182.78 182.71 182.46 182.27 182.17 181.94 181.84 181.82 181.91 181.72 181.64 181.45 181.22 180.89 180.61 180.54 180.35 180.19 180.05 179.91 179.83 179.08 178.62 178.62 178.62	JUN 177.47 177.13 176.88 176.62 176.05 175.91 175.75 175.71 175.43 175.35 175.10 174.60 174.57 174.41 174.26 174.25 174.07 174.41 174.26 174.393 173.93 173.76	JUL 173.48 173.70 173.66 173.71 173.69 173.68 173.65 173.56 173.57 173.56 173.57 173.67 173.68 173.67 173.67 173.67 173.67 173.67 173.67 173.67 173.67 173.67 173.67 173.90 174.02 e174.02 e174.02	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 191.62 191.58 191.72 191.63 191.56 191.63 191.50 191.44 191.41 191.38 191.37 191.36 191.37 191.32 191.37 191.32 191.37 191.32 191.37 191.32 191.37 191.32 191.37	NOV 191.18 191.18 191.16 191.18 191.15 191.17 191.13 191.06 191.02 190.99 190.99 190.99 190.99 190.99 190.86 190.86 190.87 190.86 190.87	DEC 190.96 190.99 190.99 190.99 190.99 190.99 190.99 190.98 190.80 190.81 190.79 190.79 190.79 190.79 190.79 190.79 190.79 190.79 190.79 190.79 190.84 190.88	JAN 190.91 190.99 191.01 190.96 190.97 190.98 190.99 191.01 191.05 191.04 191.09 191.06 191.11 191.08 191.11 191.13 191.11	DAILY OF FEB 191.11 191.13 191.09 191.10 191.11 191.06 191.07 191.08 190.75 190.75 190.64 190.75 190.66 190.71 190.66 190.71 190.66 190.71 190.63 190.63 190.63 190.63 190.63 190.63 190.63 190.63 190.63 190.63 190.63 190.63	MAR 190.47 190.49 190.59 190.54 190.60 190.56 190.60 190.57 190.60 190.49 190.49 190.40 190.49 190.40 190.13 189.90 190.40 190.13 189.91 189.45 189.39 189.17 188.88 188.70 188.68	APR 187.97 187.86 187.60 187.42 187.31 187.22 187.01 186.88 186.84 e186.66 186.31 186.25 186.21 186.12 186.10 185.92 185.40 185.92 184.95 184.95 184.95 184.95 184.95 184.61 184.56 184.55	MAY 183.36 183.21 183.10 183.06 182.89 182.78 182.77 182.46 182.27 182.17 181.94 181.84 181.82 181.91 181.72 181.64 181.45 181.45 180.89 180.61 180.54 180.35 180.19 180.05 179.91 179.83 179.08 179.08 178.662	JUN 177.47 177.13 176.88 176.62 176.05 175.75 175.71 175.43 175.35 175.10 175.15 174.71 174.60 174.57 174.41 174.26 174.25 174.07 174.06 173.93 173.93 173.76	JUL 173.48 173.70 173.66 173.71 173.68 173.65 173.56 173.57 173.56 173.65 173.51 173.65 173.66 173.66 173.66 173.66 173.66 173.66 173.74 173.90 173.99 174.03 174.07 174.02 174.02	AUG	

e Estimated

		WATER LEVE	EL, IN FE	ET BELOW		FACE DATUM, BSERVATION			SER 1996 1	TO SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	 e176.08					173.65 173.74	171.66 171.53	167.81 167.50	163.47 163.27	160.78 160.62	159.12 159.09	158.83 158.96
3						173.63	171.68	167.41	163.12	160.55	159.01	159.05
4 5						173.57 173.54	171.50 171.40	167.44 167.13	163.02 162.93	160.58 160.48	159.01 159.04	159.01 159.02
6						173.66	171.14	167.12	162.63	160.53	158.92	159.10
7						173.55	170.92	166.83	162.56	160.38	150.92	159.10
8						173.56	170.79	166.57	162.46	160.35	159.07	158.99
9						173.53	170.76	166.55	162.26	160.42	158.88	159.12
10						173.49	170.51	166.40	162.29	160.38	158.97	159.19
11						173.61	170.43	166.16	162.19	160.29	158.97	159.24
12					173.68	173.53	170.41	166.16	161.95	160.25	158.97	
13					173.75	173.40	170.34	165.91	161.86	160.12	159.08	
14 15					173.78 173.72	173.50 173.51	170.23 170.04	165.77 165.69	161.91 161.67	160.09 160.08	159.05 158.88	
16					173.79	173.53	170.12	165.54	161.61	160.07	158.74	
17 18					173.91 173.68	173.42 173.33	170.07 169.92	165.52 165.21	161.50 161.42	160.01 159.94	158.82 158.92	
19					173.92	173.38	169.81	165.15	161.37	159.84	158.71	
20					173.69	173.39	169.58	165.06	161.25	159.79	158.72	
21					173.71	173.05	169.29	165.08	161.21	159.67	158.84	
22					173.71	172.93	169.29	164.86	161.21	159.66	158.76	
23					173.73	173.00	168.85	164.77	161.04	159.58	158.75	
24					173.66	172.59	168.46	164.77	160.92	159.50	158.85	
25					173.84	172.58	168.31	164.57	160.86	159.50	158.80	
26					173.79	172.46	168.05	164.38	160.98	159.50	158.92	
27					173.91	172.48	168.02	164.16	160.81	159.40	158.79	
28 29					173.66	172.21 171.99	167.71 167.58	164.07 163.92	160.76 160.71	159.26 159.26	158.82 158.92	
30						171.96	167.88	163.72	160.71	159.25	158.92	
31						171.97		163.60		159.16	159.03	
LOW	176.08				173.92	173.74	171.68	167.81	163.47	160.78	159.12	159.24
		MADED TEXT	T T T T T T T T T T T T T T T T T T T	DEL DEL ON	TAND CITE	MITTING CIDAG	TATED TO	TEAD OFFICE	ED 1007 F	O CEDERAL	TD 1000	
					DAILY O	FACE DATUM, BSERVATION	AT 1200	HOURS				
DAY	OCT	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	HOURS MAY	JUN	JUL	AUG	SEP
1		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	HOURS MAY	JUN 159.94	JUL 156.71	AUG 155.72	154.78
		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	HOURS MAY	JUN	JUL	AUG	
1 2 3 4	 	NOV 	DEC	JAN 	DAILY O	BSERVATION MAR	AT 1200 APR 	MAY	JUN 159.94 159.32 159.33 159.34	JUL 156.71 156.54 156.36 156.32	AUG 155.72 155.72 155.68 155.64	154.78 154.89 154.81 154.88
1 2 3 4 5	 	NOV	DEC	JAN 	DAILY O	BSERVATION MAR	AT 1200 APR 	MAY	JUN 159.94 159.32 159.33 159.34 159.31	JUL 156.71 156.54 156.36 156.32	AUG 155.72 155.72 155.68 155.64 155.63	154.78 154.89 154.81 154.88 154.89
1 2 3 4 5		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31	JUL 156.71 156.54 156.36 156.32 156.18	AUG 155.72 155.72 155.68 155.64 155.63	154.78 154.89 154.81 154.88 154.89
1 2 3 4 5	 	NOV	DEC	JAN 	DAILY O	BSERVATION MAR	AT 1200 APR 	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.78	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93	AUG 155.72 155.72 155.68 155.64 155.63 155.63	154.78 154.89 154.81 154.88 154.89 154.89
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.76	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85	AUG 155.72 155.72 155.68 155.64 155.63 155.58 155.46	154.78 154.89 154.81 154.88 154.89 155.07 155.10 155.14
1 2 3 4 5 6 7 8	 	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.78 159.76	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85	AUG 155.72 155.72 155.68 155.64 155.63 155.53 155.58	154.78 154.89 154.81 154.88 154.89 155.07 155.10
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.76	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85	AUG 155.72 155.72 155.68 155.64 155.63 155.58 155.46	154.78 154.89 154.81 154.88 154.89 155.07 155.10 155.14
1 2 3 4 5 6 7 8 9 10	 	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75	AUG 155.72 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.40	154.78 154.89 154.81 154.88 154.89 155.07 155.10 155.14 155.15
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.83 159.66	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75	AUG 155.72 155.68 155.64 155.63 155.63 155.58 155.46 155.38 155.40	154.78 154.89 154.81 154.89 154.89 155.07 155.14 155.15
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85	AUG 155.72 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.40	154.78 154.89 154.81 154.88 154.89 155.07 155.10 155.14 155.15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	======================================	NOV	DEC	JAN	DAILY O	MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.83 159.66 159.62	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75	AUG 155.72 155.68 155.64 155.63 155.63 155.58 155.46 155.38 155.40 155.35 155.25 155.25	154.78 154.89 154.81 154.88 154.89 155.07 155.14 155.15 155.21 155.26
1 2 3 4 5 6 7 8 9 10 11 12 13 14	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.61 159.68 159.76 159.61 159.61 159.66 159.66 159.66	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58	AUG 155.72 155.68 155.64 155.63 155.58 155.40 155.38 155.26 155.25	154.78 154.89 154.81 154.88 154.89 155.07 155.10 155.14 155.15 155.36 155.38
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	DAILY O	MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.83 159.62 159.50 159.62 159.50	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.57	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.25 155.27	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.36 155.21 155.36 155.26 155.26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		NOV	DEC	JAN	DAILY O	MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.63 159.66 159.61 159.61 159.61 159.62 159.50 159.62	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.57 155.69 155.70 155.74	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.25 155.27 155.18 155.16	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.15 155.21 155.36 155.38 155.26 155.27 155.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	DAILY O	MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.83 159.62 159.50 159.62 159.50	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.57	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.25 155.27	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.36 155.21 155.36 155.26 155.26
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.68 159.78 159.61 159.61 159.61 159.62 159.62 159.50 159.62 159.50 159.62	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.57 155.69 155.70 155.74 155.74	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.27 155.18 155.16 155.16	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.15 155.21 155.36 155.26 155.26 155.27 155.27 155.43 155.38
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.78 159.61 159.61 159.61 159.62 159.50 159.62 159.50 159.62	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.69 155.70 155.74 155.74	AUG 155.72 155.68 155.64 155.63 155.58 155.40 155.35 155.25 155.26 155.27 155.18 155.16 155.15	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.15 155.26 155.26 155.26 155.27 155.43 155.43 155.44 155.48
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.68 159.76 159.61 159.61 159.62 159.50 159.62 159.50 159.62 159.72 159.72 159.78	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.69 155.77 155.74 155.74	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.25 155.26 155.27 155.18 155.16 155.19 154.98	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.15 155.21 155.36 155.26 155.27 155.27 155.27 155.38 155.26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.68 159.78 159.61 159.61 159.61 159.62 159.50 159.62 159.50 159.62	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.69 155.70 155.74 155.74	AUG 155.72 155.68 155.64 155.63 155.58 155.40 155.35 155.25 155.26 155.27 155.18 155.16 155.15	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.15 155.26 155.26 155.26 155.27 155.27 155.43 155.48 155.48
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		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.62 159.50 159.62 159.50 159.50 159.58 159.72 159.58 159.73 157.73	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.74 155.74 155.74 155.78 155.85 155.85 155.78	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.25 155.27 155.18 155.16 155.19 154.98 154.96	154.78 154.89 154.81 154.88 154.89 155.10 155.14 155.15 155.26 155.26 155.26 155.27 155.27 155.43 155.38 155.26 155.27 155.43 155.52 155.52 155.52
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		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.68 159.76 159.61 159.61 159.62 159.50 159.62 159.50 159.62 159.72 159.58 159.64 159.64 159.69 159.72 159.58 159.72 159.73 157.54	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.70 155.74 155.74 155.74 155.78 155.88 155.78	AUG 155.72 155.68 155.64 155.58 155.40 155.35 155.25 155.26 155.27 155.18 155.16 155.15 154.98 154.98 154.98 154.98 154.98 154.98	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.36 155.36 155.36 155.38 155.26 155.27 155.43 155.43 155.40 155.45 155.54 155.52 155.54 155.52 155.54
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		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.78 159.68 159.78 159.61 159.61 159.62 159.62 159.72 159.58 159.64 159.62 159.75 159.73 157.73	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.77 155.74 155.74 155.74 155.78 155.88 155.89 155.78 155.78 155.78	AUG 155.72 155.68 155.64 155.63 155.58 155.40 155.35 155.25 155.26 155.27 155.18 155.16 155.15 154.98 154.98 154.98 154.98 154.69	154.78 154.89 154.81 154.89 154.89 154.89 154.89 155.07 155.10 155.14 155.21 155.36 155.26 155.27 155.27 155.43 155.48 155.52 155.52 155.52 155.52
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		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.68 159.76 159.61 159.61 159.62 159.50 159.62 159.50 159.62 159.72 159.58 159.64 159.64 159.69 159.72 159.58 159.72 159.73 157.54	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.70 155.74 155.74 155.74 155.78 155.88 155.78	AUG 155.72 155.68 155.64 155.63 155.58 155.46 155.38 155.26 155.27 155.18 155.16	154.78 154.89 154.81 154.89 154.89 155.07 155.10 155.14 155.36 155.36 155.36 155.38 155.26 155.27 155.43 155.43 155.40 155.45 155.54 155.52 155.54 155.52 155.54
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAILY O	BSERVATION MAR	AT 1200 APR	MAY	JUN 159.94 159.32 159.33 159.34 159.31 159.68 159.76 159.61 159.61 159.62 159.50 159.62 159.50 159.62 159.72 159.58 159.73 157.73 157.73 157.73 157.54 157.37	JUL 156.71 156.54 156.36 156.32 156.18 156.04 155.93 155.85 155.75 155.58 155.77 155.74 155.74 155.74 155.78 155.85 155.78 155.89 155.78	AUG 155.72 155.68 155.64 155.63 155.58 155.40 155.35 155.25 155.26 155.27 155.18 155.16 155.15 154.98 154.98 154.98 154.98 154.69	154.78 154.89 154.81 154.88 154.89 155.10 155.14 155.15 155.26 155.26 155.26 155.27 155.43 155.54 155.52 155.52 155.72

e Estimated

SITE NUMBER FROM LOCATION MAP.—17.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—5N4E1ABBD.

SITE ID (STATION NUMBER).—442545103343701.

OTHER IDENTIFIER.—LA-86C and Whitewood Mnls.

LOCATION.—Lat 44°25′44.4″, long 103°34′37.5″, in SE¹/4NW¹/4NW¹/4NE¹/4 sec. 1, T. 5 N., R. 4 E., Hydrologic Unit 10120202, 2 mi west of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 300 ft deep with 281 ft of 5-in. steel casing; open hole from 281 to 300 ft.

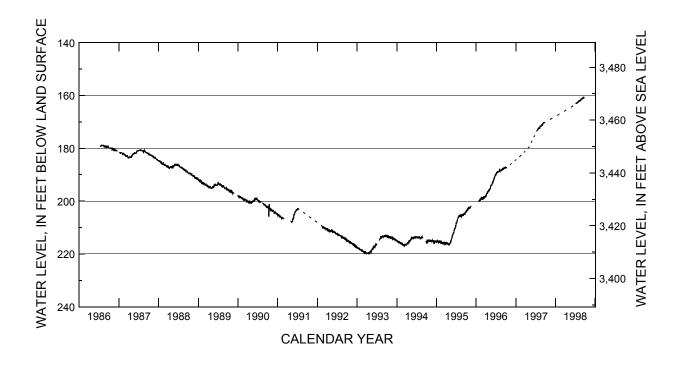
INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- 60-minute interval. Digital water-level recorder with 60-minute interval prior to Feb. 14, 1992.

DATUM.—Elevation of land-surface datum is 3,629.3 ft above sea level. Measuring point: Top of steel casing, 1.50 ft above land-surface datum.

REMARKS.—Records good except for 1997-98. Unusual fluctuations in water level during October 1991 probably caused by drilling adjacent observation well (LA-90A).

PERIOD OF RECORD.—July 1986 to September 1998.

EXTREMES.—Highest daily water level, 160.69 ft below land-surface datum, Sept. 18, 1998; lowest daily water level, 220.06 ft below land-surface datum, Apr. 20, 1993.



WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

		WAIER DEV	EL, IN FE	EI DELOW		AILY LOWE:		EAR OCIOL	LIK 1991 1	0 02112112	.21. 1,,,,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215.63	214.67		215.41	214.98	216.13	215.69	216.50	212.65	208.94	205.51	205.30
2	215.48 215.84	215.14 215.23		215.58 215.61	215.44 215.74	216.00 215.65	215.74 216.07	215.84 216.04	212.61 212.45	208.52 208.06	205.54 205.72	205.19 205.15
4	215.89	215.09		215.60	215.54	215.81	216.12	216.27	212.36	208.22	205.69	205.18
5	215.47	215.23		215.00	215.57	215.80	215.76	216.16	212.13	208.26	205.60	205.10
6 7	215.50	215.23	215.10	215.03	215.67	216.14	215.70	215.90	211.97	208.29	205.39	205.39
8	215.62 215.88	215.22 215.28	215.51 216.08	214.90 214.98	215.83 215.71	216.15 216.06	215.83 215.87	215.82 215.69	212.22 212.22	208.18 208.02	205.38 205.68	205.40 205.03
9	214.58	215.26	215.95	214.98	215.41	215.73	216.11	215.88	212.06	207.90	205.70	204.96
10	215.63	214.98	216.12	214.93	215.61	215.58	216.40	215.86	211.97	207.71	205.56	204.78
11	214.88	214.96	214.92	214.96	215.73	215.52	216.28	215.56	211.81	207.36	205.38	204.71
12 13	215.46 215.49	214.81 215.16	216.06 215.91	215.20 215.38	215.73 215.72	215.76 216.16	216.23 216.21	215.07 215.60	211.56 211.26	207.21 207.15	205.48 205.54	204.76 205.03
14	214.99	215.40	215.93	215.35	215.12	216.36	216.00	215.59	211.05	207.23	205.55	205.03
15	215.11	215.40	215.06	215.18	215.01	216.23	216.21	215.27	210.83	207.10	205.30	204.58
16	215.28	214.72	215.18	215.21	215.91	216.27	216.39	214.97	210.73		205.15	204.84
17 18	215.05 215.07	214.94 215.33	215.45 215.30	215.35 215.51	215.91 216.00	216.24 216.04	216.29 216.16	214.82 214.64	210.75 210.69	206.46	205.12 206.08	204.71 204.85
19	214.97	215.29	215.28	215.51	215.97	215.77	216.26	214.61	210.64	206.47	206.00	204.89
20	214.84	215.08	215.35	215.74	215.95	215.80	216.13	214.59	210.43	206.39	205.89	204.98
21	214.82	215.44	215.38	215.63	215.75	215.56	216.61	214.19	210.40	206.14	205.66	205.01
22 23	215.06 215.12	215.52 215.33	215.39 215.02	215.60 215.57	215.72 215.90	215.89 215.86	216.60 216.45	214.24 214.10	210.26 210.26	205.92 205.88	205.64 205.59	204.42 204.49
24	215.12	215.26	215.02	215.49	215.80	215.74	216.40	213.95	210.20	205.88	205.33	204.49
25	215.17	215.21	215.36	215.48	215.54	216.12	216.42	213.86	209.86	205.86	205.52	204.28
26	214.94	214.79	215.36	215.03	215.81	216.17	216.45	213.53	209.64	205.74	205.52	204.08
27 28	214.69 215.00	214.86 215.03	215.46 215.46	215.23 215.56	216.13 216.16	216.26 216.39	216.24 216.34	213.35 213.42	209.46 209.48	205.66 206.04	205.42 205.46	204.05 204.07
29	215.42	215.13	215.52	215.56		216.31	216.37	213.30	209.41	205.76	205.26	203.98
30	215.25	214.95	215.59	215.23		216.07	216.46	213.10	209.39	206.01	205.39	204.16
31	215.24		215.57	214.92		215.76		212.81		206.03	205.39	
LOW	215.89	215.52	216.12	215.74	216.16	216.39	216.61	216.50	212.65	208.94	206.09	205.40
		WATER LEV	EL. IN FE	ET BELOW	LAND-SURF	ACE DATUM	. WATER Y	EAR OCTOR	ER 1995 T	O SEPTEMB	BER 1996	
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOE	ER 1995 T	O SEPTEMB	BER 1996	
DAY	OCT	WATER LEV	EL, IN FE	JAN				EAR OCTOE	ER 1995 I JUN	O SEPTEMB	BER 1996 AUG	SEP
1	OCT 204.20				Di	MAR 198.77	APR 197.88	MAY 195.60	JUN 193.17			187.67
1 2	204.20 204.20	NOV 202.46	DEC	JAN 	FEB 199.86 199.85	MAR 198.77 198.77	APR 197.88 197.49	MAY 195.60 195.52	JUN 193.17 193.17	JUL 189.98 189.83	AUG 188.52 188.39	187.67 187.78
1 2 3	204.20 204.20 204.09	NOV 202.46 	DEC	JAN	FEB 199.86 199.85 199.82	MAR 198.77 198.77 198.72	APR 197.88 197.49 197.90	MAY 195.60 195.52 195.64	JUN 193.17 193.17 193.11	JUL 189.98 189.83 189.66	AUG 188.52 188.39 188.19	187.67 187.78 187.75
1 2	204.20 204.20 204.09	NOV 202.46	DEC	JAN 	FEB 199.86 199.85	MAR 198.77 198.77	APR 197.88 197.49	MAY 195.60 195.52	JUN 193.17 193.17	JUL 189.98 189.83	AUG 188.52 188.39	187.67 187.78
1 2 3 4 5	204.20 204.20 204.09 203.71 203.96	NOV 202.46 e202.73 202.49	DEC	JAN 	FEB 199.86 199.85 199.82 199.62 199.49	MAR 198.77 198.77 198.72 198.72 198.72 198.97	APR 197.88 197.49 197.90 198.04	MAY 195.60 195.52 195.64 195.76 195.79	JUN 193.17 193.17 193.11 192.74 192.41	JUL 189.98 189.83 189.66 189.52 189.44	AUG 188.52 188.39 188.19 188.24 188.27	187.67 187.78 187.75 187.75
1 2 3 4 5	204.20 204.20 204.09 203.71 203.96 203.93 203.68	NOV 202.46 e202.73 202.49 202.45 202.60	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.19	MAR 198.77 198.77 198.72 198.72 198.97 199.15 199.33	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31	MAY 195.60 195.52 195.64 195.76 195.79	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77	187.67 187.78 187.75 187.75 187.64 187.92 187.88
1 2 3 4 5 6 7 8	204.20 204.20 204.09 203.71 203.96 203.68 203.59	NOV 202.46 e202.73 202.49 202.45 202.60 202.52	DEC	JAN	FEB 199.86 199.85 199.62 199.62 199.19 199.16 199.21	MAR 198.77 198.77 198.72 198.72 198.72 198.72 199.15 199.33 199.22	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31 197.23	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.19	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63 192.33	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74
1 2 3 4 5	204.20 204.20 204.09 203.71 203.96 203.93 203.68 203.59 203.48	NOV 202.46 e202.73 202.49 202.45 202.60	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.19	MAR 198.77 198.77 198.72 198.72 198.97 199.15 199.33	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31	MAY 195.60 195.52 195.64 195.76 195.79	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77	187.67 187.78 187.75 187.75 187.64 187.92 187.88
1 2 3 4 5 6 7 8 9	204.20 204.20 204.09 203.71 203.96 203.68 203.59 203.48 203.45	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	PEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72	MAR 198.77 198.72 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31 197.23 197.21 196.94	MAY 195.60 195.52 195.64 195.76 195.56 195.56 195.34 195.34	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91
1 2 3 4 5 6 7 8 9 10	204.20 204.20 204.09 203.71 203.96 203.68 203.59 203.48 203.45	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	Di FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.11	MAR 198.77 198.77 198.72 198.72 198.97 199.15 199.33 199.22 198.87	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31 197.23 197.21	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.19	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63 192.33 192.33	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75
1 2 3 4 5 6 7 8 9 10 11 12 13	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.45	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.63 199.27	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16 198.16	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88	MAY 195.60 195.52 195.64 195.79 195.56 195.79 195.54 195.34 195.33 195.20 195.02 194.80	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95 191.82 191.88 191.77	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96
1 2 3 4 5 6 7 8 9 10	204.20 204.20 204.09 203.71 203.96 203.68 203.59 203.48 203.45	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.21 199.72	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.21 196.94 196.99 197.00	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.19 195.34 195.33	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63 192.33 192.05 191.95	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.45 203.30 203.45 203.24	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.73	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16 198.61 198.61 198.55	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88 197.07	MAY 195.60 195.52 195.64 195.79 195.56 195.44 195.19 195.34 195.33 195.20 194.35 194.31	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95 191.82 191.88 191.77 191.55	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.13 189.04	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.64 188.45 188.40 188.40 188.26 188.49 188.42	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.81 187.27 187.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14	204.20 204.20 204.09 203.71 203.96 203.93 203.68 203.59 203.45 203.30 203.45 203.24	NOV 202.46202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16 198.61	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31 197.23 197.21 196.94 196.99 197.00	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.33 195.20 195.02 194.80 194.35	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95 191.82 191.88 191.77 191.55	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19 189.13	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.49 188.49	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.91 187.53 187.27 187.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.45 203.30 203.45 203.30 203.56 203.24	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.72 199.54 199.54	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.65 198.37 198.47 198.37	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.60 196.37 196.37	MAY 195.60 195.52 195.64 195.79 195.56 195.79 195.34 195.33 195.20 194.80 194.35 194.31 194.26 194.26 194.07	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.33 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.29 190.88	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.13 189.04 188.74 188.74 188.87	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.40 188.45 188.40 188.42 188.35 188.42 188.35	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.81 187.53 187.27 187.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	204.20 204.20 204.09 203.71 203.96 203.93 203.68 203.59 203.45 203.30 203.45 203.24	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.19 199.16 199.21 199.72 199.72 199.63 199.27 199.54	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.55	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.31 197.23 197.21 196.94 196.99 197.00 196.88 197.07 197.07	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.33 195.20 195.02 194.80 194.35 194.31	JUN 193.17 193.17 193.11 192.74 192.41 192.63 192.63 192.63 192.13 192.65 191.95 191.88 191.77 191.55 191.55 191.38 191.29	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.13 189.04	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.49 188.42 188.35	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.91 187.53 187.27 187.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.55 203.30 203.45 203.56 203.24 203.06	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.72 199.54 199.54 199.29 199.75	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.55 198.37 198.49 198.75	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.60 196.37 196.41 196.41	MAY 195.60 195.52 195.64 195.79 195.56 195.79 195.34 195.33 195.02 194.80 194.35 194.31 194.26 194.07 193.94 194.02	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.33 192.05 191.95 191.88 191.77 191.55 191.38 191.29 190.88 191.05 190.93	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.13 189.04 188.74 188.79 189.00 189.00	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.40 188.45 188.40 188.42 188.35 188.42 188.35	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.53 187.27 187.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.30 203.43 203.59 203.45 203.30 203.43 203.59 203.59 203.59	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.19 199.16 199.21 199.29 199.72 199.63 199.27 199.54 199.54	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16 198.61 198.61 198.55 198.37 198.49 198.75 198.49 198.49 198.49	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.60 196.37 196.37 196.41 196.60 196.60	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.33 195.20 195.02 194.80 194.35 194.26 194.07 194.01 193.94 194.02	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95 191.88 191.77 191.55 191.38 191.29 190.88 191.05 190.88 191.05 190.88 191.05	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19 189.19 189.19 189.00 189.00 189.00 189.00	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.49 188.49 188.49 188.49 188.35	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96 187.81 187.53 187.27 187.29 187.27 187.54 187.54 187.54 187.52 187.57
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.45 203.30 203.45 203.30 203.56 203.24 203.06 203.24 203.24	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.54 199.54 199.27 199.88 199.54	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.65 198.75 198.37 198.49 198.75	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.41 196.60 196.60 196.60 196.60	MAY 195.60 195.52 195.64 195.79 195.56 195.34 195.33 195.02 194.80 194.35 194.31 194.26 194.07 193.94 194.02	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.33 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.05 190.88 191.05 190.85 190.85 190.85 190.73 190.85	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.13 189.04 188.74 188.74 188.79 189.00 189.00	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.49 188.42 188.35 188.29 188.29 188.32 188.33 188.30 188.33	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.53 187.27 187.29 187.27 187.54 187.52 187.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.30 203.43 203.59 203.45 203.30 203.43 203.59 203.59 203.59	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.19 199.16 199.21 199.29 199.72 199.63 199.27 199.54 199.54	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.16 198.61 198.61 198.55 198.37 198.49 198.75 198.49 198.49 198.49	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.60 196.37 196.37 196.41 196.60 196.60	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.33 195.20 195.02 194.80 194.35 194.26 194.07 194.01 193.94 194.02	JUN 193.17 193.11 192.74 192.41 192.63 192.63 192.05 191.95 191.88 191.77 191.55 191.38 191.29 190.88 191.05 190.88 191.05 190.88 191.05	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19 189.19 189.19 189.00 189.00 189.00 189.00	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.49 188.49 188.49 188.49 188.35	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96 187.81 187.53 187.27 187.29 187.27 187.54 187.54 187.54 187.52 187.57
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	204.20 204.20 204.09 203.71 203.93 203.68 203.59 203.48 203.59 203.56 203.24 203.59 203.56 203.24 203.59 203.56 203.24	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.29 199.72 199.72 199.54 199.27 199.88 199.54 198.87 198.87 198.87 199.21	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.65 198.75 198.37 198.49 198.49 198.49 198.40 198.40 198.51 198.51	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.41 196.41 196.60 196.60 196.60 196.02	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.34 195.33 195.02 194.80 194.35 194.31 194.26 194.07 194.01 193.94 194.05 194.05 193.86 194.03 194.01	JUN 193.17 193.11 192.74 192.41 192.63 192.33 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.05 190.88 191.05 190.88 191.05 190.88 191.05 190.88 191.05	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.27 189.26 189.26 189.27 189.13 189.04 188.74 188.79 189.03 189.00 189.00 189.03 189.06 189.00	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.40 188.45 188.40 188.45 188.40 188.49 188.42 188.35 188.29 188.31 188.10 188.29 188.20	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.53 187.27 187.29 187.27 187.29 187.52 187.52 187.52 187.52 187.52
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.30 203.43 203.59 203.44 203.24 203.06 203.12 203.09 203.41 203.35	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.22 199.72 199.72 199.54 199.54 199.54 199.63 199.54 199.54	MAR 198.77 198.77 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.61 198.75 198.37 198.49 198.49 198.49 198.40 198.11 198.51	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.37 196.41 196.60 196.60 196.60 196.60 196.60	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.34 195.33 195.02 194.03 194.35 194.07 193.94 194.02	JUN 193.17 193.11 192.74 192.63 192.63 192.63 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.29 191.88 191.79 191.55	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19 189.13 189.04 188.74 188.87 189.00 189.00 189.00 189.03 189.07 189.03	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.42 188.35 188.29 188.10 188.29 188.10 188.29 188.11 188.10 188.29 188.11 188.10	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96 187.81 187.53 187.27 187.29 187.27 187.54 187.54 187.52 187.52 187.57
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.56 203.24 203.59 203.56 203.24 203.59 203.56 203.24 203.06 203.24 203.09 203.41 203.84 202.84 202.84 202.85 202.89 202.75 202.62	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.49 199.16 199.21 199.29 199.72 199.72 199.54 199.54 199.22 199.865 198.47 198.76 198.83 198.70 198.78 198.71 199.21	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.65 198.37 198.49 198.75 198.49 198.75 198.49 198.75 198.49 198.75	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.21 196.94 196.99 197.07 196.60 196.37 196.41 196.41 196.60 196.60 196.60 196.02 196.02 195.96 196.16	MAY 195.60 195.52 195.64 195.79 195.56 195.34 195.33 195.20 194.80 194.35 194.31 194.26 194.07 194.01 193.94 194.05 194.05 194.07 194.01 193.86 194.03 194.01	JUN 193.17 193.11 192.74 192.41 192.63 192.33 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.05 190.88 191.05 190.88 191.05 190.88 191.05 190.88 190.73 190.88 190.48 190.17	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.27 189.26 189.26 189.27 189.13 189.04 188.74 188.79 189.03 189.00 189.03 189.06 189.00 188.96 189.00 188.96 188.96 188.92	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.42 188.35 188.29 188.32 188.31 188.17 188.15 188.10 188.29 188.20	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.53 187.27 187.29 187.27 187.29 187.52 187.52 187.52 187.52 187.52 187.52 187.27
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.35 203.45 203.30 203.43 203.59 203.56 203.24 203.09 203.41 203.09 203.41 202.91 202.91 202.54 202.54 202.54	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	PEB 199.86 199.85 199.82 199.62 199.19 199.16 199.21 199.29 199.72 199.63 199.54 199.54 199.865 198.47 198.65 198.76 198.87 198.76	MAR 198.77 198.77 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.61 198.61 198.87 198.49 198.40 198.49 198.40 198.40 198.40 198.40 198.75	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.00 196.88 197.07 196.60 196.37 196.41 196.40 196.60 196.60 196.40 196.60 196.60 196.02 195.96 196.16 196.16	MAY 195.60 195.52 195.64 195.79 195.56 195.79 195.34 195.33 195.20 194.35 194.31 194.26 194.07 193.94 194.02 194.05 193.86 194.03 194.01 193.73 193.55 194.31	JUN 193.17 193.11 192.74 192.63 192.63 192.63 192.05 191.82 191.88 191.77 191.55 191.38 191.29 190.88 191.05 190.48 190.73 190.48 190.71	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.27 189.28 189.19 189.13 189.04 188.74 188.87 189.00 189.03 189.00 189.03 189.00 189.03 189.00 189.03	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.49 188.42 188.35 188.29 188.16 188.29 188.11 188.17 188.15 188.30 188.31 188.17 188.15	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96 187.81 187.53 187.27 187.29 187.27 187.54 187.52 187.27 187.52 187.27 187.29 187.38 187.27 187.29
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	204.20 204.20 204.09 203.71 203.96 203.59 203.48 203.45 203.56 203.24 203.59 203.56 203.24 203.59 203.56 203.24 203.06 203.24 203.09 203.41 203.84 202.84 202.84 202.85 202.89 202.75 202.62	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	FEB 199.86 199.85 199.82 199.62 199.49 199.16 199.21 199.22 199.63 199.54 199.22 199.63 199.54 199.22 199.04 199.21 199.29 199.04 199.21	MAR 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.65 198.37 198.49 198.75 198.49 198.75 198.49 198.75 198.49 198.75	APR 197.88 197.49 197.90 198.04 198.02 197.64 197.21 196.94 196.99 197.07 196.60 196.37 196.41 196.41 196.60 196.60 196.60 196.02 196.02 195.96 196.16	MAY 195.60 195.52 195.64 195.79 195.56 195.34 195.33 195.20 194.80 194.35 194.31 194.26 194.07 194.01 193.94 194.05 194.05 194.07 194.01 193.86 194.03 194.01	JUN 193.17 193.11 192.74 192.41 192.63 192.33 192.05 191.95 191.82 191.88 191.77 191.55 191.38 191.05 190.88 191.05 190.88 191.05 190.88 191.05 190.88 190.73 190.88 190.48 190.17	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.27 189.26 189.26 189.27 189.13 189.04 188.74 188.79 189.03 189.00 189.03 189.06 189.00 188.96 189.00 188.96 188.96 188.92	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.42 188.35 188.29 188.32 188.31 188.17 188.15 188.10 188.29 188.20	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.74 187.75 187.91 187.96 187.53 187.27 187.29 187.27 187.29 187.52 187.52 187.52 187.52 187.52 187.27
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	204.20 204.20 204.09 203.71 203.96 203.68 203.59 203.48 203.45 203.30 203.59 203.41 203.35 203.56 203.24 203.09 203.41 202.89 202.75 202.89 202.75 202.66 202.50 202.50 202.66	NOV 202.46 e202.73 202.49 202.45 202.60 202.52 202.04 e202.16	DEC	JAN	PEB 199.86 199.85 199.82 199.62 199.19 199.16 199.21 199.29 199.72 199.63 199.54 199.22 199.04 198.65 198.47 198.76 198.83 198.70 198.78 199.21	MAR 198.77 198.77 198.72 198.72 198.72 198.97 199.15 199.33 199.22 198.87 198.44 198.29 198.61 198.61 198.61 198.61 198.75 198.49 198.75 198.49 198.75 198.49 198.75	APR 197.88 197.89 197.89 197.90 198.04 198.02 197.64 197.23 197.21 196.94 196.99 197.07 196.60 196.37 196.37 196.41 196.60 196.40 196.60 196.60 196.60 196.60 196.60 196.60 196.60 196.60 196.16 196.15 195.60	MAY 195.60 195.52 195.64 195.76 195.79 195.56 195.44 195.33 195.20 195.02 194.80 194.35 194.31 194.26 194.07 194.01 193.94 194.02 194.05 193.86 194.07 194.01 193.73 194.01	JUN 193.17 193.11 192.74 192.63 192.63 192.63 192.05 191.95 191.88 191.77 191.55 191.38 191.29 190.88 191.05 190.88 191.07 190.88 191.07 190.18 190.48 190.73	JUL 189.98 189.83 189.66 189.52 189.44 189.60 189.47 189.51 189.46 189.26 189.27 189.28 189.19 189.13 189.04 188.74 188.87 188.99 189.00 189.00 189.00 189.00 189.00 189.00 188.98 188.89 188.89	AUG 188.52 188.39 188.19 188.24 188.27 188.56 188.77 188.83 188.64 188.45 188.40 188.26 188.35 188.29 188.10 188.20 188.31 188.10 188.23 188.30 188.31 188.17 188.15	187.67 187.78 187.75 187.75 187.64 187.92 187.88 187.75 187.91 187.96 187.81 187.53 187.27 187.29 187.27 187.54 187.54 187.55 187.57 187.59 187.27

e Estimated

SITE NUMBER 17—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

					D11	IDI DOME	OI VIIIODD					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											172.39	171.33
2	e187.54										172.34	171.36
3											172.41	171.23
4											172.50	170.91
5											172.50	170.89
6											172.47	170.75
7											172.40	170.68
8											171.92	170.77
9											172.23	170.72
10											172.26	170.56
11											172.13	170.36
12					e182.91						172.02	170.34
13											171.93	170.45
14											171.59	170.45
15											171.42	170.44
16										173.20	171.75	170.35
17										173.20	171.75	170.36
18										173.21	171.55	
19										173.20	171.57	
20										173.14	171.57	
21										173.07	171.48	
22										172.91	171.46	
23										172.72	171.41	
24										172.61	171.31	
25										172.54	171.42	
0.0										170 46	171 22	
26										172.46	171.33	
27										172.55	171.14	
28							e179.77			172.59	171.08	
29										172.54	171.06	
30										172.49	171.07	
31										172.39	170.96	
LOW	187.54				182.91		179.77			173.21	172.50	171.36

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											162.03	161.34
2									e164.19		162.03	161.05
3											162.13	161.02
4											162.26	161.04
5											162.25	161.09
6											162.08	161.23
7											161.95	161.23
8											161.99	160.93
9											162.12	160.80
10											162.09	161.09
11											162.06	161.08
12											162.09	160.99
13										162.77	162.07 161.99	160.86 161.02
14 15												
15										162.98	161.83	161.02
16										162.98	161.65	160.92
17										162.85	161.75	160.79
18										162.68	161.73	160.69
19										162.65	161.90	160.70
20										162.63	161.93	160.76
20										102.05	101.75	200.50
21										162.74	161.84	160.98
22										162.81	161.61	160.93
23										162.73	161.53	
24										162.58	161.48	
25										162.59	161.49	
26										162.59	161.28	
27				e167.30						162.58	161.50	
28										162.48	161.50	
29										162.41	161.50	
30										162.40	161.30	
31										162.30	161.35	
LOW				167.30					164.19	162.98	162.26	161.34

e Estimated

SITE NUMBER FROM LOCATION MAP.—18.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—5N1E11DABA.

SITE ID (STATION NUMBER).—442435103571101.

OTHER IDENTIFIER.—LA-95C and Big Hill Trailhead.

LOCATION.—Lat 44°24′34.6″, long 103°57′10.8″, in NE¹/4NW¹/4NE¹/4SE¹/4 sec. 11, T. 5N., R. 1 E., Hydrologic Unit 10120203, 7 mi southwest of Spearfish. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 780 ft deep with 628 ft of 5-in. steel casing; open hole from 628 to 780 ft.

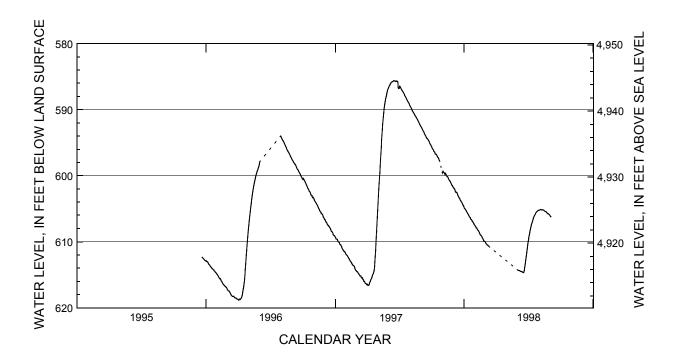
INSTRUMENTATION.—Electronic data logger.

DATUM.—Elevation of land-surface datum is 5,530.2 ft above sea level. Measuring point: Top of steel casing, 1.3 ft above land-surface datum.

REMARKS.—Records fair.

PERIOD OF RECORD.—December 1995 to September 1998.

EXTREMES.—Highest daily water level, 585.62 ft below land-surface datum, June 15, 17, 1997; lowest water level, 618.86 ft below land-surface datum, Apr. 2-3, 1996.



SITE NUMBER 18-Continued
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

					D2	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				612.87	614.93	617.22	618.80	607.51	597.88		594.18	597.60
2				612.99	615.00	617.29	618.86	606.98			594.32	597.68
3				613.03	615.09	617.38	618.86	606.49			594.45	597.78
4				613.02	615.19	617.45	618.77	605.98			594.54	597.93
5				613.05	615.29	617.49	618.69	605.47			594.66	598.01
6				612 14	615.40	617 40	C10 F1	605.03			504 70	598.05
				613.14		617.49	618.71	605.03			594.72	
7				613.24	615.47	617.52	618.73	604.57			594.80	598.17
8				613.36	615.54	617.64	618.68	604.17			594.90	598.24
9				613.45	615.62	617.76	618.59	603.71			595.04	598.26
10				613.48	615.60	617.86	618.50	603.28			595.17	598.33
11				613.54	615.66	617.97	618.42	602.88			595.29	598.45
12				613.63	615.81	618.08	618.21	602.52			595.41	598.60
13				613.72	615.96	618.11	617.97	602.19			595.49	598.74
14				613.76	616.02	618.17	617.62	601.89			595.63	598.87
15				613.89	616.08	618.28	617.26	601.57			595.74	598.97
16				613.97	616.21	618.30	616.95	601.27			595.87	599.07
17				613.97	616.32	618.30	616.67	601.00			596.04	599.09
18				614.04	616.43	618.28	616.24	600.73			596.14	599.19
19				614.13	616.50	618.25	615.68	600.73			596.14	599.19
20			612.31	614.16	616.51	618.34	614.97	600.49			596.21	599.33
20			012.31	014.10	010.51	010.34	014.97	000.24			590.30	399.43
21			612.35	614.19	616.60	618.39	614.22	599.99			596.41	599.52
22			612.43	614.26	616.67	618.50	613.43	599.81			596.49	599.62
23			612.50	614.33	616.70	618.54	612.68	599.63			596.60	599.68
24			612.54	614.41	616.78	618.51	612.01	599.44			596.73	599.83
25			612.60	614.46	616.80	618.50	611.35	599.26			596.83	599.96
26			612.65	614.50	616.89	618.57	610.60	599.12			596.96	600.07
27			612.74					598.99			597.07	600.07
				614.62	616.90	618.60	609.92					
28			612.79	614.67	616.95	618.67	609.27	598.81			597.16	600.26
29			612.85	614.70	617.11	618.71	608.61	598.66			597.24	600.40
30			612.90	614.76		618.70	608.06	598.47		593.98	597.38	600.53
31			612.90	614.89		618.70		598.22		594.07	597.52	
LOW			612.90	614.89	617.11	618.71	618.86	607.51	597.88	594.07	597.52	600.53
	W.F	ATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAI	OCI	MOA	שת	UAN	rrb	MAK	APK	IMA Y	O OIN	0.07	AUG	SEP

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	600.59 600.59 600.47 600.60 600.69	603.46 603.59 603.75 603.84 603.94	606.60 606.61 606.69 606.83 607.00	609.36 609.45 609.60 609.60	611.95 612.03 612.09 612.12 612.23	614.36 614.50 614.55 614.55	616.54 616.47 616.60 616.64 616.63	605.28 604.20 603.00 602.04 601.18	586.62 586.48 586.35 586.27 586.23	586.77 586.45 586.46 586.59 586.68	589.48 589.59 589.68 589.77 589.89	592.60 592.69 592.83 592.93 593.05
6 7 8 9 10	600.77 600.92 601.02 601.09 601.28	604.04 604.09 604.20 604.29	607.07 607.06 607.18 607.34 607.48	609.62 609.75 609.86 609.98 610.03	612.32 612.41 612.52 612.57 612.70	614.71 614.80 614.84 614.95 615.01	616.55 616.41 616.24 616.10 616.01	600.34 599.54 598.60 597.57 596.63	586.04 585.97 585.93 585.85 585.79	586.82 586.88 586.98 587.12 587.18	589.98 590.15 590.29 590.33 590.43	593.16 593.25 593.31 593.44 593.58
11 12 13 14 15	601.41 601.50 601.64 601.75 601.89	604.46 604.57 604.72 604.91 604.98	607.48 607.52 607.64 607.65 607.78	610.06 610.11 610.27 610.42 610.46	612.78 612.93 612.97 613.06 613.10	615.10 615.21 615.21 615.19 615.36	615.84 615.70 615.60 615.52 615.35	595.68 594.61 593.83 593.01 592.27	585.76 585.77 585.72 585.66 585.62	587.24 587.36 587.42 587.54 587.65	590.52 590.63 590.68 590.83 590.92	593.74 593.80 593.88 593.99 594.17
16 17 18 19 20	601.98 602.03 602.23 602.36 602.39	605.06 605.16 605.31 605.42 605.48	607.86 607.90 608.03 608.17 608.35	610.48 610.58 610.66 610.79 610.99	613.21 613.38 613.39 613.56 613.57	615.47 615.50 615.45 615.54 615.71	615.12 614.98 614.88 614.73 614.57	591.63 591.05 590.54 589.97 589.47	585.65 585.62 585.65 585.68 585.67	587.79 587.91 587.99 588.07 588.17	590.96 591.08 591.19 591.26 591.36	594.21 594.34 594.39 594.40 594.48
21 22 23 24 25	602.44 602.61 602.71 602.90 603.00	605.56 605.72 605.70 605.80 605.87	608.44 608.49 608.50 608.61 608.73	611.10 611.17 611.26 611.28 611.43	613.62 613.65 613.69 613.78 613.97	615.75 615.83 616.01 616.03 616.08	614.35 613.81 613.07 612.26 611.33	589.13 588.81 588.50 588.25 588.03	585.73 585.70 585.70 585.64 585.67	588.27 588.41 588.53 588.63 588.75	591.46 591.55 591.67 591.80 591.88	594.61 594.66 594.76 594.89 595.04
26 27 28 29 30 31	603.00 603.03 603.28 603.34 603.28 603.39	605.92 606.10 606.27 606.34 606.46	608.92 609.01 609.04 609.10 609.11 609.23	611.50 611.47 611.56 611.65 611.81 611.92	614.14 614.30 614.34 	616.22 616.34 616.35 616.35 616.41 616.53	610.38 609.39 608.46 607.45 606.31	587.76 587.48 587.27 587.01 586.85 586.73	585.74 585.80 586.67 586.81 e586.80	588.85 588.91 589.00 589.11 589.26 589.36	592.00 592.11 592.24 592.34 592.44 592.55	595.18 595.24 595.35 595.43 595.53
LOW	603.39	606.46	609.23	611.92	614.34	616.53	616.64	605.28	586.81	589.36	592.55	595.53

e Estimated

SITE NUMBER 18—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595.65	599.40	601.77	604.88	607.64	609.99				609.99	605.23	606.06
2	595.83	599.33	601.84	604.97	607.68	610.08			614.31	609.68	605.21	606.16
3	595.90	599.49	601.96	605.01	607.81	610.23			614.34	609.33	605.19	606.21
4	595.99	599.50	601.96	605.14	607.92	610.31			614.37	609.02	605.15	606.28
5	596.05	599.54	602.06	605.19	607.90	610.35			614.37	608.78	605.12	
6	596.17	599.63	602.24	605.22	607.99	610.46			614.38	608.48	605.15	
7	596.33	599.76	602.41	605.39	608.15	610.48			614.39	608.21	605.18	
8	596.36	599.67	602.52	605.50	608.24	610.51			614.45	607.93	605.19	
9	596.39	599.62	602.53	605.54	608.28	610.55			614.46	607.70	605.16	
10	596.54	599.79	602.50	605.67	608.32	610.62			614.51	607.48	605.17	
11	596.72	599.88	602.54	605.78	608.43	610.65			614.53	607.28	605.18	
12	596.74	600.08	602.66	605.85	608.54	610.73			614.52	607.11	605.18	
13	596.75	600.08	602.81	605.97	608.65				614.54	606.92	605.19	
14	596.79	600.08	603.02	606.04	608.82				614.55	606.76	605.23	
15	596.86	600.16	603.09	606.20	608.93				614.62	606.58	605.31	
16	597.00	600.29	603.22	606.24	608.95				614.66	606.37	605.36	
17	597.16	600.43	603.33	606.32	609.04				614.67	606.23	605.38	
18	597.21	600.51	603.39	606.35	609.07				614.69	606.12	605.42	
19	597.28	600.65	603.42	606.57	609.12				614.55	606.04	605.43	
20	597.34	600.72	603.63	606.61	609.25				614.32	605.93	605.43	
21	597.49	600.82	603.72	606.63	609.43				613.99	605.84	605.50	
22	597.66	600.85	603.76	606.73	609.49				613.59	605.72	605.57	
23	597.71	600.98	603.91	606.80	609.51				613.24	605.62	605.66	
24		601.08	603.96	606.95	609.73				612.87	605.56	605.67	
25		601.18	604.04	606.98	609.90				612.44	605.50	605.73	
26		601.37	604.14	607.05	609.92				612.04	605.42	605.79	
27		601.46	604.30	607.19	609.92				611.64	605.35	605.79	
28		601.47	604.39	607.23	609.94				611.21	605.34	605.79	
29		601.54	604.52	607.39					610.79	605.30	605.87	
30		601.71	604.54	607.46					610.37	605.27	605.93	
31	599.59		604.73	607.54						605.23	605.97	
LOW	599.59	601.71	604.73	607.54	609.94	610.73			614.69	609.99	605.97	606.28

SITE NUMBER FROM LOCATION MAP.—19.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—4N2E20BBAC2.

SITE ID (STATION NUMBER).—441757103544602.

OTHER IDENTIFIER.—LA-96A and Cheyenne Xing Ddwd.

LOCATION.—Lat 44°17′57.5″, long 103°54′45.5″, in SW¹/4NE¹/4NW¹/4NW¹/4 sec. 20, T. 4N., R. 2 E., Hydrologic Unit 10120203, 8 mi southwest of Lead. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled observation well, 780 ft deep with 590 ft of 5-in. steel casing; open hole from 590 to 780 ft.

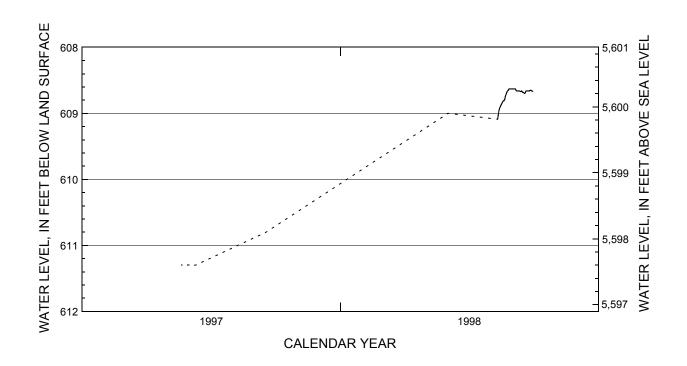
INSTRUMENTATION.—Electronic data logger -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 6,208.9 ft above sea level. Measuring point: Top of steel casing, 2.0 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—May 1997 to September 1998.

EXTREMES.—Highest daily water level, 608.63 ft below land-surface datum, Aug. 27 to Sept. 5, 1998; lowest daily water level, 611.3 ft (estimated) below land-surface datum, May 21 and June 10, 1997.



SITE NUMBER 19-Continued

SITE 1	NUMBER 19-Co W		L, IN FEE	T BELOW L		CE DATUM, LY LOWEST		EAR OCTO	BER 1996 T	O SEPTEMB	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3 4												
5												
6												
7												
8												
9 10									e611.3			
11 12												
13												
14												
15												
16												
17 18												 e610.8
19												
20												
21								e611.3				
22												
23												
24 25												
26 27												
28												
29												
30 31												
LOW								611.30	611.30			610.80
DAY	WA OCT	ATER LEVE	L, IN FEE'	T BELOW L		CE DATUM, LY LOWEST MAR		EAR OCTO	BER 1997 T	O SEPTEMB JUL	BER 1998	SEP
	OCT	NOV	DEC	JAN	DAI FEB	LY LOWEST	APR	MAY	JUN	JUL	AUG	
DAY 1 2					DAI	LY LOWEST	VALUES					SEP 608.63 608.63
1 2 3	OCT	NOV 	DEC	JAN 	DAI FEB 	MAR	APR	MAY 	JUN e609.0	JUL 	AUG 	608.63 608.63 608.63
1 2 3 4	OCT	NOV 	DEC	JAN 	DAI FEB 	MAR	APR	MAY 	JUN e609.0	JUL 	AUG	608.63 608.63 608.63
1 2 3	OCT	NOV 	DEC	JAN 	DAI FEB 	MAR	APR	MAY 	JUN e609.0	JUL 	AUG	608.63 608.63 608.63 608.63
1 2 3 4 5	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN e609.0	JUL 	AUG	608.63 608.63 608.63 608.63 608.63
1 2 3 4 5	OCT	NOV 	DEC	JAN 	DAI FEB 	MAR	APR	MAY 	JUN e609.0	JUL 	AUG	608.63 608.63 608.63 608.63
1 2 3 4 5 6 7 8 9	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG	608.63 608.63 608.63 608.63 608.65 608.66 608.66
1 2 3 4 5	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG	608.63 608.63 608.63 608.63 608.63
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG	608.63 608.63 608.63 608.63 608.63 608.66 608.66 608.66
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03	608.63 608.63 608.63 608.63 608.65 608.66 608.66 608.66 608.66
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG	608.63 608.63 608.63 608.63 608.63 608.66 608.66 608.66
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.92 608.89	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.87 608.85	608.63 608.63 608.63 608.63 608.65 608.66 608.66 608.66 608.67 608.67 608.66 608.68 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95 608.92 608.89 608.87 608.85 608.85	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.87 608.85	608.63 608.63 608.63 608.63 608.65 608.66 608.66 608.66 608.67 608.66 608.66 608.66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.92 608.89 608.87 608.87 608.81 608.81	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.81 608.81 608.79	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.92 608.89 608.87 608.87 608.81 608.81	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.92 608.89 608.87 608.81 608.71 608.74 608.71 608.68	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.68 608.69 608.69 608.66 608.66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.92 608.89 608.87 608.81 608.81 608.81 608.79 608.74	608.63 608.63 608.63 608.63 608.65 608.66 608.66 608.66 608.67 608.67 608.67 608.68 608.69 608.69 608.69 608.69 608.66
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	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.87 608.81 608.71 608.74 608.71 608.68 608.66	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.67 608.68 608.68 608.69 608.69 608.66 608.66 608.66 608.66 608.66
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 25 26 27	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.89 608.81 608.81 608.71 608.68 608.65 608.65	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.81 608.81 608.81 608.81 608.68 608.63 608.63 608.63	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66
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 30 30 30 30 30 30 30 30 30 30 30 30	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN e609.0	JUL	AUG 609.09 609.03 608.95 608.89 608.81 608.81 608.71 608.81 608.74 608.63 608.63 608.63 608.63 608.63	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.67 608.69 608.69 608.69 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	DA1 FEB	MAR	APR	MAY	JUN	JUL	AUG 609.09 609.03 608.95 608.95 608.89 608.81 608.81 608.81 608.81 608.68 608.63 608.63 608.63	608.63 608.63 608.63 608.63 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66 608.66

e Estimated

108

SITE NUMBER FROM LOCATION MAP.—20.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—4N2E20BBAC.

SITE ID (STATION NUMBER).—441757103544601.

OTHER IDENTIFIER.—LA-95B and Cheyenne Xing Mdsn.

LOCATION.—Lat 44°17′57.5″, long 103°54′45.5″, in SW¹/4NE¹/4NW¹/4NW¹/4 sec. 20, T. 4N., R. 2 E., Hydrologic Unit 10120203, 8 mi southwest of Lead. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 460 ft deep with 413 ft of 5-in. steel casing; open hole from 413 to 460 ft.

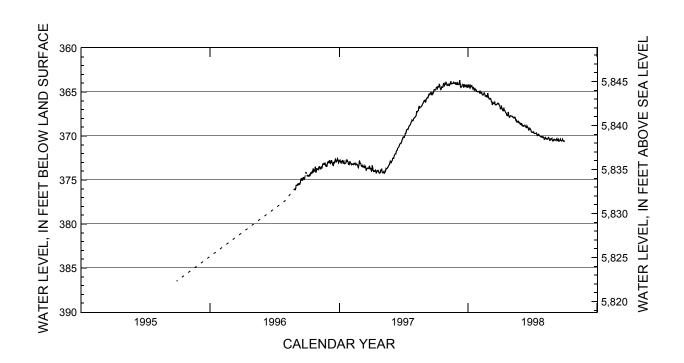
INSTRUMENTATION.—Electronic data logger -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 6,209.8 ft above sea level. Measuring point: Top of steel casing, 2.5 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1995 to September 1998.

EXTREMES.—Highest daily water level, 364.71 ft below land-surface datum, Sept. 27, 1997; lowest daily water level, 386.5 ft (estimated) below land-surface datum, Sept. 28, 1995 (from driller's log).



SITE NUMBER 20—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 ------___ ------___ ------___ ------------___ ___ ___ ------___ ---------------5 ___ ___ ___ 6 ---------------------------8 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------------10 11 12 ___ ---13 14 ___ ---------------___ ---___ ------------------___ ------------15 16 ------------------18 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------19 20 21 ___ ___ ---------------23 ---___ 24 ------------------------------------25 26 -----------------------------e386.5 29 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 30 ------------------------------------LOW ___ ------------___ ------___ ---386.50 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT DEC SEP NOV JAN FEB MAR APR MAY JUIN JUL AUG 375.59 2 ___ ___ ___ ___ ___ ___ ___ ___ ___ ---___ 375.60 375.61 ---------------------------------___ ___ ___ ___ ___ ___ 5 ___ ___ ___ ___ ___ 375.42 6 375.56 ------------___ ---------___ ------375.55 375.42 ---------8 ------------------------10 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 375.48 11 12 ___ ___ ___ ___ ___ ___ ___ ---___ ---___ 375.39 ---------------------------------375.13 13 15 ------------------------------374.84 16 374.84 ---------17 ------------375.03 ------------------------18 375.03 374.94 19 21 374.72 ------------------------23 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 374.94 24 ---------------------------------374.89 ___ ---26 ------___ 374.62 ------------___ ---27 376.01 28 29 374.13 ___ ___ ___ ___ ___ ___ 376.06 ---___ ---___ ---------___ ---376.11 374.14 30 e377.40 376.06 31 ___ ___ ___ ___ ___ ___ ___ ___ ___ 375.83 LOW 377.40 376.11 375.61

110

e Estimated

SITE NUMBER 20—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DATLY LOWEST VALUES

		WAIER DEV	DD, 114 1D	EI DELOW	DAND SORT	AILY LOWES		EAR OCTOB	ER 1990 1	O SEFTEME	DIC 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	374.55 374.53 374.48 374.53	373.81 373.84 373.67 373.53 373.49	372.92 373.03 373.04 373.02 372.74	372.90 372.75 372.72 372.89 373.04	373.02 373.07 373.17 373.28 373.25	373.12 373.11 373.16 373.35 373.45	373.87 373.98 373.86 373.38 373.42	373.80 374.08 374.16 374.12 374.15	372.56 372.50 372.54 372.54 372.28	370.10 370.17 370.16 370.16 369.97	367.95 367.90 367.85 367.84 367.78	366.13 366.15 366.06 365.84 365.77
6 7 8 9 10	374.58 374.55 374.44 374.53 374.52	373.48 373.72 373.74 373.65 373.54	372.87 373.13 373.09 372.93 372.75	373.08 372.91 372.89 372.79 372.78	373.17 373.20 373.18 373.23 373.26	373.43 373.34 373.47 373.55 373.45	373.75 374.01 374.04 373.94 374.01	374.12 374.03 374.24 374.23 374.07	372.17 372.12 372.03 372.04 372.04	369.88 369.69 369.70 369.60 369.36	367.67 367.59 367.18 367.29 367.28	365.69 365.63 365.66 365.66 365.50
11 12 13 14 15	374.24 374.29 374.29 374.18 374.16	373.68 373.66 373.62 373.37 373.19	372.95 373.06 373.16 373.36 373.36	373.02 373.09 373.09 372.78 373.13	373.15 373.10 373.10 373.20 373.27	373.45 373.36 373.59 373.59 373.47	374.03 374.00 373.86 373.89 374.19	374.05 373.96 373.69 373.76 373.76	371.78 371.67 371.64 371.61 371.40	369.28 369.24 369.22 369.25 369.18	367.15 367.15 367.10 366.79 366.58	365.31 365.24 365.33 365.32 365.24
16 17 18 19 20	374.03 374.17 374.13 373.69 373.89	373.21 373.23 373.23 373.04 373.23	372.95 373.11 373.03 372.88 372.77	373.15 373.12 373.09 373.08 372.94	373.27 373.13 373.26 373.26 373.22	373.38 373.67 373.88 373.79 373.71	374.19 374.09 373.96 373.91 373.93	373.70 373.60 373.55 373.55 373.40	371.36 371.31 371.27 371.18 371.03	369.03 368.92 368.83 368.81 368.76	366.83 366.81 366.71 366.71	365.10 365.10 365.04 365.29 365.32
21 22 23 24 25	374.04 373.99 373.84 373.80 373.49	373.22 373.15 373.40 373.42 373.35	372.62 372.70 372.96 372.95 372.86	372.68 372.82 372.75 372.90 372.89	373.28 373.42 373.54 373.60 373.37	373.68 373.67 373.64 373.69 373.70	373.91 374.07 374.06 374.21 374.21	373.36 373.25 373.23 373.08 372.89	370.95 370.88 370.82 370.81 370.82	368.72 368.61 368.48 368.36 368.30	366.63 366.59 366.53 366.40 366.33	365.20 365.11 365.19 365.09 364.95
26 27 28 29 30 31	374.09 374.11 374.00 373.66 373.78 373.78	373.46 373.45 373.13 372.98 373.01	372.77 372.59 372.73 372.78 373.04 372.94	372.96 373.23 373.23 373.25 373.02 372.87	373.08 372.79 372.98 	373.66 373.40 373.53 373.76 373.76	374.21 374.17 373.88 373.90 373.92	373.01 373.04 373.04 372.87 372.83 372.78	370.77 370.51 370.41 370.36 370.17	368.20 368.27 368.27 368.22 368.07 367.98	366.29 366.18 366.06 365.99 365.98 365.94	364.78 364.71 364.75 364.76 364.77
LOW	374.58	373.84	373.36	373.25	373.60	373.88	374.21	374.24	372.56	370.17	367.95	366.15
		WATER LEV	EL. IN FE	ET BELOW	LAND-SURF	ACE DATUM	, WATER Y	EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				EAR OCTOB	ER 1997 T JUN	O SEPTEMB	ER 1998 AUG	SEP
DAY 1 2 3 4 5					DA	AILY LOWES	ST VALUES					SEP 370.51 370.37 370.39 370.40 370.44
1 2 3 4	OCT 364.75 364.62 364.46 364.47	NOV 364.11 364.22 364.16 364.19	DEC 363.97 364.12 364.10 364.12	JAN 364.30 364.22 364.35 364.28	FEB 364.92 365.11 365.10 364.97	MAR 365.79 365.80 365.74 365.70	APR 366.68 366.90 366.93 366.86	MAY 367.71 367.73 367.72 367.77	JUN 368.55 368.74 368.74 368.78	JUL 369.56 369.58 369.60 369.61	AUG 370.11 370.11 370.25 370.38	370.51 370.37 370.39 370.40
1 2 3 4 5 6 7 8 9	OCT 364.75 364.62 364.46 364.47 364.52 364.60 364.36 364.36 364.44	NOV 364.11 364.22 364.16 364.19 364.25 364.20 364.11 364.22 364.23	DEC 363.97 364.12 364.10 364.12 364.16 364.10 363.81 363.66 364.08	JAN 364.30 364.22 364.35 364.28 364.44 364.56 364.49 364.26 364.35	FEB 364.92 365.11 365.10 364.97 365.12 365.14 365.05 365.02 365.22	MAR 365.79 365.80 365.74 365.70 365.81 365.81 366.01 366.13 366.21	APR 366.68 366.90 366.93 366.86 366.66 366.74 366.87 367.04 367.13	MAY 367.71 367.72 367.77 367.75 367.82 367.81 367.84 367.93	JUN 368.55 368.74 368.74 368.78 368.89 368.89 368.81 368.81	JUL 369.56 369.58 369.60 369.61 369.53 369.66 369.71 369.72 369.73	AUG 370.11 370.25 370.38 370.38 370.27 370.15 370.22 370.33	370.51 370.37 370.39 370.40 370.44 370.53 370.53 370.38 370.29
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 364.75 364.62 364.46 364.47 364.52 364.60 364.36 364.36 364.44 364.43	NOV 364.11 364.22 364.16 364.19 364.25 364.20 364.11 364.22 364.26 364.15 363.87 363.78 363.78	DEC 363.97 364.12 364.10 364.12 364.16 364.16 364.08 364.08 364.39 364.50 364.43 364.40 364.38	JAN 364.30 364.22 364.35 364.28 364.44 364.56 364.49 364.26 364.35 364.39 364.45 364.63	FEB 364.92 365.11 365.10 364.97 365.12 365.14 365.05 365.02 365.22 365.32 365.35 365.27 365.27	MAR 365.79 365.80 365.74 365.70 365.81 365.81 366.01 366.13 366.21 366.41 366.41 366.20 366.28	APR 366.68 366.90 366.93 366.86 366.66 366.74 367.04 367.13 367.15 367.02 366.77 367.07	MAY 367.71 367.73 367.75 367.75 367.82 367.81 367.83 367.95 367.95	JUN 368.55 368.74 368.74 368.78 368.89 368.90 368.81 368.84 368.76 368.81 368.85 368.95	JUL 369.56 369.58 369.60 369.61 369.53 369.66 369.71 369.72 369.72 369.72 369.73 369.72	AUG 370.11 370.25 370.38 370.27 370.15 370.22 370.33 370.34 370.29 370.38 370.38 370.38	370.51 370.37 370.39 370.40 370.44 370.53 370.53 370.59 370.42 370.50 370.46 370.37
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	364.75 364.62 364.46 364.47 364.52 364.36 364.36 364.36 364.43 364.43 364.41 364.73 364.49 364.49 364.49	NOV 364.11 364.22 364.16 364.19 364.25 364.20 364.11 364.22 364.26 364.15 363.98 363.87 364.07 364.07 364.07	DEC 363.97 364.12 364.10 364.12 364.16 364.16 364.08 364.39 364.50 364.43 364.43 364.43 364.40 364.38 364.40 364.38	JAN 364.30 364.22 364.35 364.28 364.44 364.56 364.35 364.39 364.31 364.45 364.63 364.43 364.50	FEB 364.92 365.11 365.10 364.97 365.12 365.02 365.02 365.02 365.32 365.33 365.35 365.27 365.20 365.20 365.24 365.48	MAR 365.79 365.80 365.74 365.70 365.81 366.81 366.01 366.13 366.21 366.41 366.20 366.28 366.27 366.29 366.27	APR 366.68 366.90 366.93 366.86 366.66 366.74 367.04 367.15 367.02 366.77 367.09 367.17	MAY 367.71 367.72 367.77 367.75 367.82 367.81 367.83 367.95 367.90 367.85 367.90 368.16 368.25 368.19 368.37	JUN 368.55 368.74 368.74 368.78 368.89 368.89 368.81 368.81 368.81 368.81 368.95 369.04 369.04 368.85 368.93	JUL 369.56 369.58 369.60 369.61 369.53 369.66 369.71 369.72 369.72 369.72 369.73 369.72 369.70 369.66 369.77 369.95	AUG 370.11 370.25 370.38 370.27 370.15 370.22 370.33 370.34 370.29 370.38 370.39 370.31 370.21 370.17 370.23 370.25 370.25 370.48	370.51 370.37 370.39 370.40 370.44 370.53 370.53 370.59 370.42 370.50 370.46 370.37 370.59 370.59 370.59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0CT 364.75 364.62 364.46 364.47 364.52 364.60 364.36 364.43 364.43 364.15 364.20 364.44 364.47 364.49 364.49 364.49	NOV 364.11 364.22 364.16 364.19 364.25 364.20 364.11 364.22 364.26 364.15 363.98 363.87 364.07 364.07 364.01 363.89 363.87 364.01 363.89 363.87	DEC 363.97 364.12 364.10 364.12 364.16 364.16 364.08 364.39 364.50 364.43 364.40 364.43 364.40 364.38 364.20	JAN 364.30 364.22 364.35 364.28 364.44 364.56 364.35 364.39 364.31 364.45 364.63 364.43 364.52 364.60 364.72 364.72	FEB 364.92 365.11 365.10 364.97 365.12 365.02 365.02 365.22 365.32 365.33 365.35 365.27 365.20 365.20 365.24 365.48 365.48 365.49 365.49	MAR 365.79 365.80 365.74 365.70 365.81 366.81 366.01 366.13 366.21 366.41 366.29 366.29 366.27 366.29 366.27 366.40 366.44 366.46 366.46 366.41	APR 366.68 366.90 366.93 366.86 366.66 366.74 367.13 367.15 367.02 367.07 367.09 367.17 367.25 367.34 367.34 367.38 367.49 367.65	MAY 367.71 367.72 367.75 367.82 367.81 367.83 367.95 367.90 367.85 367.90 368.16 368.25 368.37 368.40 368.33 368.29 368.32 368.32	JUN 368.55 368.74 368.74 368.78 368.89 368.89 368.81 368.84 368.76 368.81 368.85 369.04 369.04 369.04 369.04 369.04 369.02 369.02 369.02 369.02 369.17	JUL 369.56 369.58 369.60 369.61 369.53 369.66 369.71 369.72 369.72 369.70 369.66 369.77 369.95 369.91 369.81 369.79 369.82 369.99 369.98	AUG 370.11 370.25 370.38 370.27 370.15 370.22 370.33 370.34 370.29 370.38	370.51 370.37 370.39 370.40 370.53 370.53 370.53 370.53 370.59 370.46 370.59 370.59 370.59 370.59 370.59 370.59 370.57 370.48 370.45 370.45 370.45 370.45

SITE NUMBER FROM LOCATION MAP.—21.

COUNTY.—Lawrence.

LOCAL WELL NUMBER.—3N2E33DBDA.

SITE ID (STATION NUMBER).—441034103524701.

OTHER IDENTIFIERS.—LA-94B and Black Fox.

LOCATION.—Lat 44°10′34.0″, long 103°52′47.0″, in NE¹/4SE¹/4NW¹/4SE¹/4 sec. 33, T. 3 N., R. 2 E., Hydrologic Unit 10120102, 10 mi west of Rochford. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled observation well, 363 ft deep with 227 ft of 5-in. steel casing; open hole from 227 ft to 363 ft.

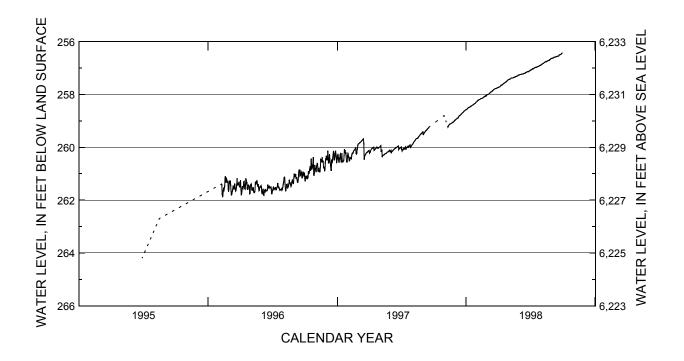
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 6,489 ft above sea level. Measuring point: Top of steel casing 2.3 ft above land surface datum.

REMARKS.—Records poor.

PERIOD OF RECORD.—June 1995 to September 1998.

EXTREMES.—Highest daily water level, 256.42 ft below land-surface datum, Sept. 30, 1998; lowest daily water level, 264.20 ft (estimated) below land-surface datum, June 28, 1995.



SITE NUMBER 21—Continued

DAILY 1	W. LOWEST VALU		L, IN FEE	T BELOW	LAND-SURF	ACE DATUM	, WATER Y	EAR OCTO	BER 1994 T	O SEPTEME	BER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4 5												
3												
6												
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21												
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25												
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26 27												
28									e264.2			
29												
30 31												
31												
LOW									264.20		262.70	
	WZ	ATER LEVE	L, IN FEE	T BELOW		ACE DATUM		EAR OCTO	BER 1995 T	O SEPTEME	BER 1996	
DAY	WF OCT	ATER LEVE	L, IN FEE	T BELOW JAN				EAR OCTO	BER 1995 T JUN	O SEPTEME	BER 1996	SEP
	OCT	NOV	DEC	JAN	Di FEB	AILY LOWE:	ST VALUES APR	MAY	JUN	JUL	AUG	
DAY 1 2					Di	AILY LOWE: MAR 261.26	ST VALUES APR 261.50	MAY 261.42	JUN 261.69	JUL 261.65	AUG 261.39	261.00
1 2 3	OCT	NOV	DEC	JAN	Di FEB 	AILY LOWE:	ST VALUES APR	MAY	JUN 261.69 261.76 261.76	JUL	AUG	
1 2 3 4	OCT	NOV 	DEC	JAN 	D2 FEB 	MAR 261.26 261.35 261.37 261.26	APR 261.50 261.25 261.58 261.79	MAY 261.42 261.39 261.44 261.62	JUN 261.69 261.76 261.76 261.59	JUL 261.65 261.63 261.56 261.51	AUG 261.39 261.33 261.15 261.13	261.00 261.05 261.11 261.10
1 2 3	OCT 	NOV 	DEC 	JAN 	D2 FEB 	MAR 261.26 261.35 261.37	APR 261.50 261.25 261.58	MAY 261.42 261.39 261.44	JUN 261.69 261.76 261.76	JUL 261.65 261.63 261.56	AUG 261.39 261.33 261.15	261.00 261.05 261.11
1 2 3 4 5	OCT	NOV 	DEC	JAN 	D2 FEB 	MAR 261.26 261.35 261.37 261.26 261.43	APR 261.50 261.25 261.58 261.79 261.78	MAY 261.42 261.39 261.44 261.62	JUN 261.69 261.76 261.76 261.59	JUL 261.65 261.63 261.56 261.51	AUG 261.39 261.33 261.15 261.13	261.00 261.05 261.11 261.10
1 2 3 4 5	OCT	NOV	DEC	JAN	Di FEB	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48	MAY 261.42 261.39 261.44 261.62 261.63 261.55 261.53	JUN 261.69 261.76 261.76 261.59 261.59	JUL 261.65 261.63 261.56 261.51 261.52 261.59 261.56	AUG 261.39 261.33 261.15 261.13 261.15	261.00 261.05 261.11 261.10 261.01 261.17 261.16
1 2 3 4 5	OCT	NOV	DEC	JAN	Di FEB 261.39	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82 261.79	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.56	MAY 261.42 261.39 261.44 261.62 261.63 261.55 261.53	JUN 261.69 261.76 261.76 261.59 261.59 261.81 261.82 261.70	JUL 261.65 261.63 261.51 261.52 261.59 261.56 261.58	AUG 261.39 261.33 261.15 261.15 261.38 261.62 261.64	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13
1 2 3 4 5	OCT	NOV	DEC	JAN	Di FEB	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48	MAY 261.42 261.39 261.44 261.62 261.63 261.55 261.53	JUN 261.69 261.76 261.76 261.59 261.59	JUL 261.65 261.63 261.56 261.51 261.52 261.59 261.56	AUG 261.39 261.33 261.15 261.13 261.15	261.00 261.05 261.11 261.10 261.01 261.17 261.16
1 2 3 4 5 6 7 8 9	OCT	NOV	DEC	JAN	Di FEB	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82 261.79 261.70 261.65	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.65 261.48 261.57 261.48	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.53 261.72	JUN 261.69 261.76 261.79 261.59 261.81 261.82 261.70 261.62 261.61	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51	AUG 261.39 261.15 261.15 261.15 261.38 261.62 261.64 261.55 261.41	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13 261.22 261.33
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	PEB 261.39 261.41 261.79 261.86	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82 261.79 261.70 261.65	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.31	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72	JUN 261.69 261.76 261.76 261.59 261.59 261.81 261.82 261.61 261.60	JUL 261.65 261.63 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61	AUG 261.39 261.33 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13 261.22 261.33
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.64 261.70 261.65 261.59	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.65 261.48 261.57 261.48 261.31	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.53 261.72	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.70 261.62 261.61	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.61	AUG 261.39 261.15 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.41 261.54	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13 261.22 261.33 261.33 261.37 261.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT	NOV	DEC	JAN	PEB 261.39 261.41 261.79 261.86 261.64 261.53	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.31 261.29 261.44 261.57	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72 261.72	JUN 261.69 261.76 261.59 261.59 261.81 261.82 261.70 261.62 261.61 261.60 261.67	JUL 261.65 261.63 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.61 261.56	AUG 261.39 261.33 261.15 261.13 261.15 261.62 261.64 261.55 261.41 261.40 261.54 261.54	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 261.05
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.64 261.70 261.65 261.59	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.65 261.48 261.57 261.48 261.31	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.70 261.62 261.61	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.61	AUG 261.39 261.15 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.41 261.54	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13 261.22 261.33 261.33 261.37 261.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT	NOV	DEC	JAN	PEB 261.39 261.41 261.79 261.86 261.64 261.53	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.31 261.29 261.44 261.57	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72 261.72	JUN 261.69 261.76 261.59 261.59 261.81 261.82 261.70 261.62 261.61 261.60 261.67	JUL 261.65 261.63 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.61 261.56	AUG 261.39 261.33 261.15 261.13 261.15 261.62 261.64 261.55 261.41 261.40 261.54 261.54	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 261.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.82 261.79 261.65 261.57 261.57 261.57 261.57 261.54	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.56 261.48 261.31 261.29 261.44 261.57 261.48	MAY 261.42 261.39 261.44 261.62 261.53 261.55 261.72 261.72 261.72 261.70 261.62 261.31 261.40	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.61 261.62 261.61 261.63 261.64 261.63	JUL 261.65 261.63 261.56 261.51 261.52 261.58 261.58 261.51 261.61 261.61 261.52 261.50	AUG 261.39 261.33 261.15 261.13 261.15 261.62 261.64 261.55 261.41 261.40 261.54 261.54 261.53 261.48	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	FEB	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.64 261.59 261.57 261.57 261.57 261.57 261.57 261.57	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.56 261.47 261.48 261.57 261.48 261.57 261.48	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72 261.70 261.62 261.31 261.40	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.70 261.62 261.61 261.63 261.63 261.62 261.64 261.64 261.64 261.64 261.64	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.61 261.52 261.52 261.53	AUG 261.39 261.15 261.13 261.15 261.13 261.54 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.53 261.48	261.00 261.05 261.11 261.10 261.01 261.17 261.16 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.48 261.19 261.10	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.65 261.79 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.64 261.37 261.64 261.45 261.66	APR 261.50 261.25 261.58 261.79 261.65 261.65 261.48 261.57 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.59	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72 261.31 261.40 261.39 261.29 261.31	JUN 261.69 261.76 261.59 261.59 261.81 261.62 261.61 261.63 261.62 261.64 261.62 261.64 261.62	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.52 261.50 261.35 261.44 261.51	AUG 261.39 261.15 261.13 261.15 261.13 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.07
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.64 261.53 261.67 261.54 261.10 261.29	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.64 261.59 261.57 261.57 261.57 261.57 261.65	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.56 261.47 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.48	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.72 261.72 261.31 261.40	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.61 261.62 261.61 261.63 261.63 261.63 261.63 261.63	JUL 261.65 261.56 261.51 261.59 261.58 261.58 261.51 261.61 261.61 261.52 261.52 261.53 261.55	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37 261.38	261.00 261.05 261.11 261.10 261.01 261.16 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.07 261.07 261.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.54 261.10 261.29 261.35	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.65 261.79 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.57	APR 261.50 261.25 261.58 261.79 261.65 261.65 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.59 261.43 261.37 261.35	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.72 261.72 261.70 261.62 261.31 261.40	JUN 261.69 261.76 261.59 261.59 261.81 261.62 261.61 261.63 261.63 261.62 261.64 261.62 261.63 261.653 261.53	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.56 261.50 261.50 261.50 261.50	AUG 261.39 261.15 261.13 261.15 261.13 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37 261.38	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.09 261.09 261.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.54 261.10 261.29 261.35 261.15	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57 261.66 261.61	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.48 261.31 261.29 261.43 261.37 261.35	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.72 261.70 261.62 261.31 261.40 261.39 261.27 261.47	JUN 261.69 261.76 261.76 261.59 261.81 261.82 261.61 261.62 261.61 261.63 261.62 261.64 261.63 261.53 261.53	JUL 261.65 261.63 261.56 261.51 261.59 261.58 261.51 261.61 261.61 261.50 261.50 261.50 261.50	AUG 261.39 261.33 261.15 261.13 261.15 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37 261.38 261.37 261.39 261.39 261.44	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.02 260.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.54 261.10 261.29 261.35	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.65 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.57 261.42	APR 261.50 261.25 261.58 261.79 261.65 261.65 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.59 261.43 261.37 261.59 261.43 261.18 261.23 261.37 261.60 261.57 261.60	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.53 261.65 261.72 261.70 261.62 261.31 261.40 261.39 261.27 261.31 261.40 261.39 261.29 261.31 261.40	JUN 261.69 261.76 261.59 261.59 261.81 261.62 261.61 261.63 261.63 261.62 261.64 261.63 261.63 261.53 261.53	JUL 261.65 261.56 261.51 261.52 261.59 261.58 261.58 261.51 261.61 261.56 261.50 261.50 261.50 261.50	AUG 261.39 261.15 261.13 261.15 261.13 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37 261.38	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.09 261.09 261.09
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	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.64 261.53 261.67 261.54 261.10 261.29 261.35 261.35	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.65 261.57 261.57 261.57 261.57 261.54 261.37 261.44 261.37 261.44 261.65	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.56 261.57 261.48 261.57 261.48 261.57 261.48 261.57 261.48 261.57 261.48	MAY 261.42 261.63 261.63 261.55 261.53 261.65 261.72 261.72 261.72 261.72 261.40 261.31 261.40 261.31 261.40 261.48	JUN 261.69 261.76 261.76 261.59 261.81 261.62 261.61 261.62 261.61 261.63 261.63 261.63 261.63 261.64 261.63 261.65 261.64 261.53	JUL 261.65 261.56 261.51 261.59 261.58 261.58 261.51 261.51 261.61 261.61 261.52 261.52 261.53 261.53 261.51	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.54 261.53 261.43 261.37 261.38 261.37 261.38 261.37 261.38	261.00 261.05 261.11 261.10 261.01 261.16 261.13 261.22 261.33 261.27 261.05 260.90 260.86 260.86 260.90 261.07 261.02 260.91 260.91
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	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.48 261.19 261.10 261.29 261.35 261.15 261.35 261.35	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.61 261.63 261.63 261.63 261.63 261.44 261.42 261.43	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.59 261.43 261.37 261.35 261.57 261.60 261.59 261.44 261.57	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.72 261.72 261.70 261.40 261.31 261.40 261.39 261.27 261.31 261.47 261.40 261.55 261.62 261.31 261.47	JUN 261.69 261.76 261.76 261.59 261.81 261.62 261.61 261.63 261.63 261.62 261.64 261.63 261.62 261.64 261.63 261.53 261.53 261.53	JUL 261.65 261.56 261.51 261.59 261.58 261.51 261.61 261.61 261.50 261.52 261.50 261.53 261.50 261.53 261.61 261.61 261.61 261.61 261.61	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.54 261.33 261.37 261.32 261.36 261.32	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.02 260.91 260.91 260.91
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	OCT	NOV	DEC	JAN	FEB	MAR 261.26 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57 261.54 261.42 261.42 261.43 261.44 261.42 261.43	APR 261.50 261.25 261.58 261.79 261.65 261.48 261.65 261.48 261.57 261.48 261.129 261.44 261.57 261.59 261.43 261.18 261.37 261.59 261.43 261.18 261.29 261.44 261.57	MAY 261.42 261.39 261.44 261.62 261.63 261.53 261.53 261.65 261.72 261.72 261.72 261.72 261.40 261.31 261.40 261.39 261.27 261.31 261.40 261.36 261.62 261.31	JUN 261.69 261.76 261.59 261.59 261.81 261.62 261.61 261.63 261.62 261.64 261.62 261.64 261.63 261.53 261.53	JUL 261.65 261.63 261.51 261.52 261.59 261.51 261.61 261.50 261.50 261.50 261.50 261.61 261.61 261.61 261.61 261.50 261.55	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.53 261.48 261.37 261.38 261.39 261.44 261.31	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.02 260.91 260.91
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	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.48 261.19 261.10 261.29 261.35 261.15 261.35 261.35	MAR 261.26 261.35 261.37 261.26 261.43 261.64 261.79 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.61 261.63 261.63 261.63 261.63 261.44 261.42 261.43	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.44 261.57 261.59 261.43 261.37 261.35 261.57 261.60 261.59 261.44 261.57	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.72 261.72 261.70 261.40 261.31 261.40 261.39 261.27 261.31 261.47 261.40 261.55 261.62 261.31 261.47	JUN 261.69 261.76 261.76 261.59 261.81 261.62 261.61 261.63 261.63 261.62 261.64 261.63 261.62 261.64 261.63 261.53 261.53 261.53	JUL 261.65 261.56 261.51 261.59 261.58 261.51 261.61 261.61 261.50 261.52 261.50 261.53 261.50 261.53 261.61 261.61 261.61 261.61 261.61	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.54 261.33 261.37 261.32 261.36 261.32	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.09 261.09 261.09 261.09 261.09 261.09 261.09 261.09 260.91
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 27 28 29 30 20 21 22 23 24 25 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.64 261.53 261.67 261.54 261.10 261.29 261.35 261.15 261.26 261.27 261.35	MAR 261.26 261.37 261.26 261.37 261.26 261.43 261.64 261.65 261.57 261.57 261.57 261.57 261.57 261.42 261.42 261.43 261.42 261.43 261.38 261.43	APR 261.50 261.25 261.58 261.79 261.65 261.48 261.65 261.57 261.48 261.57 261.48 261.31 261.59 261.43 261.57 261.59 261.43 261.59 261.44 261.57 261.59 261.44 261.57 261.59	MAY 261.42 261.39 261.44 261.62 261.53 261.53 261.53 261.72 261.72 261.72 261.72 261.72 261.63 261.65 261.64 261.31 261.40 261.31 261.40 261.40 261.53 261.65 261.64	JUN 261.69 261.76 261.59 261.59 261.81 261.62 261.61 261.62 261.63 261.62 261.63 261.63 261.63 261.53 261.53 261.53 261.55 261.51 261.51 261.57	JUL 261.65 261.51 261.52 261.59 261.58 261.51 261.61 261.50 261.50 261.50 261.50 261.50 261.51 261.61 261.61 261.61 261.61 261.53 261.61 261.61 261.61	AUG 261.39 261.15 261.13 261.15 261.38 261.62 261.64 261.55 261.41 261.40 261.53 261.37 261.38 261.37 261.38 261.39 261.48 261.48 261.48 261.48 261.48 261.39 261.31	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.02 260.91 260.91 260.94 261.13 261.13 261.27 261.09 261.09 261.09
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	FEB 261.39 261.41 261.79 261.86 261.85 261.64 261.53 261.67 261.54 261.15 261.10 261.29 261.35 261.15 261.35 261.35 261.35 261.35 261.35	MAR 261.26 261.37 261.26 261.37 261.26 261.43 261.64 261.70 261.65 261.57 261.57 261.57 261.57 261.57 261.57 261.42 261.42 261.43 261.42 261.43 261.42 261.43	APR 261.50 261.25 261.58 261.79 261.78 261.65 261.48 261.57 261.48 261.57 261.48 261.31 261.29 261.41 261.57 261.59 261.43 261.57 261.65 261.74	MAY 261.42 261.63 261.63 261.53 261.55 261.72 261.72 261.72 261.72 261.40 261.31 261.40 261.39 261.27 261.31 261.40 261.39 261.26 261.40 261.39 261.27 261.40	JUN 261.69 261.76 261.76 261.59 261.81 261.62 261.61 261.63 261.63 261.62 261.64 261.63 261.62 261.64 261.53 261.53 261.53 261.55 261.56	JUL 261.65 261.56 261.51 261.59 261.58 261.58 261.51 261.61 261.61 261.50 261.50 261.50 261.50 261.51 261.61 261.61 261.61 261.61 261.61 261.61	AUG 261.39 261.15 261.13 261.15 261.13 261.64 261.55 261.41 261.40 261.54 261.53 261.48 261.37 261.32 261.34 261.32	261.00 261.05 261.11 261.10 261.01 261.13 261.22 261.33 261.27 261.05 260.90 260.86 261.09 261.07 261.02 260.91 260.91 260.91 260.91

e Estimated

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

			•		Di	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	261.21 261.29 261.13 261.10 261.12	260.90 260.94 260.76 260.68 260.61	260.32 260.48 260.48 260.47 260.13	260.44 260.29 260.25 260.40 260.54	260.31 260.36 260.43 260.53 260.49	259.88 259.87 259.86 259.85 259.83	260.12 260.22 260.20 260.20 260.13	259.99 259.98 259.95 259.94 260.18	260.15 260.12 260.20 260.17 260.16	259.99 260.09 260.14 260.11 260.09	259.90 259.88 259.87 259.84 259.82	259.52 259.52 259.47 259.46 259.44
6 7 8 9 10	261.17 261.15 261.07 261.17 261.15	260.62 260.90 260.91 260.86 260.77	260.35 260.61 260.57 260.43 260.26	260.58 260.42 260.41 260.27 260.25	260.40 260.42 260.39 260.42 260.43	259.83 259.81 259.80 259.79 259.77	260.08 260.06 260.05 260.04	260.12 260.11 260.37 260.33 260.31	260.15 260.13 260.11 260.11 260.08	260.07 260.05 260.09 260.07 260.05	259.79 259.77 259.76 259.74 259.72	259.42 259.39 259.37 259.37 259.36
11 12 13 14 15	260.91 261.00 260.99 260.89 260.83	260.92 260.91 260.94 260.71 260.46	260.47 260.60 260.69 260.88 260.88	260.47 260.54 260.51 260.23 260.55	260.29 260.22 260.21 260.22 260.19	259.75 259.74 259.73 259.70 259.69	260.03 260.02 260.01 260.00 260.12	260.29 260.30 260.29 260.28 260.26	260.08 260.06 260.05 260.04 260.03	260.03 260.01 259.99 260.09 260.04	259.70 259.69 259.67 259.67 259.66	259.34 259.33 259.30 259.29 259.28
16 17 18 19 20	260.72 260.89 260.83 260.43 260.65	260.48 260.55 260.55 260.38 260.56	260.46 260.61 260.52 260.41 260.29	260.56 260.53 260.53 260.51 260.35	260.14 260.12 260.11 260.09 260.07	259.68 259.87 260.47 260.35 260.31	260.11 260.08 260.07 260.05 260.04	260.25 260.24 260.24 260.23 260.22	260.02 260.01 260.00 259.99 259.98	260.03 260.00 260.00 259.98 259.96	259.66 259.64 259.64 259.60 259.59	259.27 259.25 259.23
21 22 23 24 25	260.84 260.77 260.68 260.63 260.38	260.57 260.51 260.76 260.79 260.77	260.14 260.21 260.48 260.48 260.36	260.07 260.20 260.11 260.23 260.21	260.05 260.03 260.24 260.26 260.23	260.29 260.26 260.24 260.22 260.20	260.03 260.01 259.99 260.02 260.01	260.20 260.19 260.18 260.17 260.17	259.97 259.96 259.95 260.08 260.05	260.02 259.98 259.96 259.95 259.92	259.57 259.55 259.53 259.52 259.51	
26 27 28 29 30 31	261.03 261.08 260.96 260.67 260.80 260.80	260.88 260.86 260.57 260.44 260.45	260.28 260.13 260.27 260.34 260.60 260.48	260.31 260.56 260.56 260.56 260.34 260.20	260.09 260.05 259.90 	260.19 260.19 260.16 260.16 260.13 260.13	260.04 260.03 260.02 260.01 260.00	260.16 260.14 260.12 260.11 260.17 260.17	260.05 260.04 260.02 260.01 260.00	259.91 260.01 260.00 259.96 259.93 259.92	259.48 259.48 259.46 259.44 259.42 259.41	
LOW	261.29	260.94	260.88	260.58	260.53	260.47	260.22	260.37	260.20	260.14	259.90	259.52
	Ţ	WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOE	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	 	258.97 258.95 258.94 258.93 258.92	258.57 258.57 258.56 258.54 258.53	258.25 258.24 258.22 258.22 258.22	258.01 258.00 258.00 258.00 257.99	257.73 257.73 257.72 257.72 257.72	257.44 257.43 257.43 257.42 257.41	257.26 257.25 257.24 257.24 257.24	257.08 257.08 257.07 257.06 257.06	256.87 256.87 256.87 256.84 256.83	256.63 256.63 256.62 256.61 256.61
6 7 8 9 10	 	 259.24	258.90 258.90 258.90 258.89 258.86	258.51 258.50 258.49 258.49 258.48	258.20 258.19 258.19 258.18 258.17	257.98 257.98 257.96 257.94 257.93	257.71 257.69 257.68 257.66 257.64	257.41 257.40 257.38 257.38 257.38	257.23 257.23 257.23 257.23 257.22	257.05 257.04 257.02 257.02 257.03	256.82 256.82 256.81 256.80 256.79	256.60 256.59 256.59 256.59 256.58
11 12 13 14 15	 	259.20 259.18 259.16 259.14 259.12	258.82 258.81 258.80 258.80 258.78	258.48 258.47 258.46 258.44 258.44	258.16 258.15 258.15 258.15 258.15	257.91 257.91 257.90 257.89 257.89	257.65 257.65 257.64 257.62 257.61	257.37 257.38 257.37 257.37 257.36	257.22 257.21 257.21 257.20 257.20	257.02 257.00 256.99 256.99 256.98	256.78 256.77 256.76 256.76 256.76	256.57 256.57 256.57 256.56 256.56
16 17 18 19 20	 	259.12 259.12 259.11 259.10 259.09	258.77 258.76 258.74 258.73 258.71	258.43 258.42 258.41 258.40 258.40	258.14 258.13 258.11 258.10 258.09	257.85 257.85 257.84 257.83 257.81	257.60 257.58 257.57 257.57 257.56	257.35 257.35 257.34 257.33 257.33	257.20 257.18 257.17 257.17 257.16	256.97 256.97 256.97 256.97 256.96	256.76 256.74 256.74 256.73 256.72	256.55 256.55 256.55 256.55 256.54
21 22 23 24 25	 	259.08 259.07 259.07 259.05 259.05	258.70 258.69 258.68 258.66 258.64	258.39 258.37 258.36 258.35 258.35	258.09 258.08 258.07 258.05 258.07	257.80 257.80 257.79 257.78 257.77	257.55 257.53 257.52 257.52 257.52	257.32 257.32 257.31 257.31 257.30	257.15 257.14 257.14 257.14 257.14	256.95 256.95 256.94 256.94 256.93	256.72 256.71 256.71 256.71 256.68	256.50 256.50 256.49 256.49 256.49
26 27 28 29 30 31	 e258.8	259.03 259.02 259.01 258.98 258.98	258.63 258.62 258.61 258.60 258.59 258.58	258.33 258.32 258.31 258.29 258.28 258.27	258.05 258.05 258.02 	257.77 257.77 257.76 257.75 257.75 257.74	257.50 257.47 257.46 257.45 257.45	257.30 257.29 257.27 257.26 257.27 257.26	257.14 257.13 257.11 257.11 257.10	256.92 256.91 256.91 256.90 256.90	256.68 256.67 256.65 256.64 256.64	256.48 256.46 256.45 256.44 256.42
LOW	258.80	259.24	258.97	258.57	258.25	258.01	257.73	257.44	257.26	257.08	256.87	256.63
	Estimated											

e Estimated

SITE NUMBER FROM LOCATION MAP.—22.

COUNTY.—Meade.

LOCAL WELL NUMBER.—6N5E16CDCC.

SITE ID (STATION NUMBER).—442828103312001.

OTHER IDENTIFIER.—MD-89A and Bear Butte.

LOCATION.—Lat 44°28′27.8″, long 103°31′23.2″, in SW¹/4SW¹/4SE¹/4SW¹/4 sec. 16, T. 6 N., R. 5 E., Hydrologic Unit 10120202, 4 mi north of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Lakota (Inyan Kara). This aquifer type is not shown in figures 5 or 7.

WELL CHARACTERISTICS.—Drilled observation well, 482 ft deep with 447 ft of 5-in. steel casing; screened from 447 to 477 ft with 18-slot, 3-in. PVC.

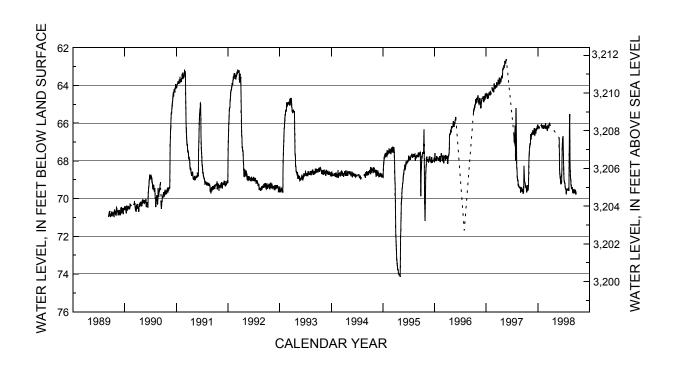
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,274.4 ft above sea level. Measuring point: Top of steel casing, 1.80 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1989 to September 1998.

EXTREMES.—Highest daily water level, 62.60 ft below land-surface datum, May 24, 1997; lowest daily water level, 74.15 ft below land-surface datum, May 4, 1995.



SITE NUMBER 22—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 68.55 68.36 68.65 68.82 67.44 70.99 74.06 68.46 67.94 67.73 67.74 67.69 67.71 67.78 68.55 68.57 68.57 68.66 67.62 67.70 67.47 67.31 71.49 71.97 74.02 74.06 68.45 67.83 67.73 67.72 67.78 68.83 68.69 68.69 68.86 68.43 68.51 67.86 68.84 67.60 72.03 68.42 67.71 68.69 5 68.53 68.56 68.84 68.47 67.57 67.35 72.29 73.63 68.34 67.90 67.69 67.74 6 68.34 68.59 68.76 68.23 67.55 67.39 72.48 72.72 68.20 67.97 67.67 67.79 68.57 68.59 68.79 68.19 67.62 67.49 67.47 72.71 72.02 68.39 67.92 67.92 67.68 67.77 67.79 67.65 72.88 68.62 67.62 71.66 8 68.62 68.08 68.83 68.44 68.56 68.62 10 68.47 68.52 68.84 67.93 67.48 67.27 73.28 71.03 68.35 67.87 67.71 67.58 68.49 67.50 70.80 12 68.59 68.49 68.75 67.80 67.49 67.35 73.44 70.26 68.23 67.84 67.71 67.64 68.71 68.74 67.85 67.85 67.49 67.34 67.53 67.58 73.44 73.54 70.09 68.12 67.89 67.95 67.72 67.78 67.78 13 68.61 15 68.36 68.82 68.69 67.68 67.39 67.55 73.67 69.93 68.05 67.89 67.65 67.58 68.50 73.79 68.45 67.49 69.68 68.06 67.89 17 68.45 68.54 68.79 67.67 67.45 67.53 73.76 69.60 68.12 67.84 67.67 67.62 18 68.71 67.73 67.75 67.58 67.42 67.29 73.76 67.79 67.76 67.89 67.64 67.67 68.48 68.78 69.45 68.16 19 68.49 68.71 67.58 73.76 20 68.49 68.62 68.75 67.77 67.58 67.29 73.77 69.40 68.09 67.73 67.93 67.68 68.79 68.71 67.68 67.66 67.45 67.55 67.44 67.54 74.00 74.00 69.18 69.16 67.73 67.69 2.2 68.55 68.87 68.09 67.85 67.60 23 68.57 67.85 67.54 68.80 68.09 68.65 25 68.60 68.63 68.71 67.67 67.38 68.12 73.99 69.00 68.03 67.68 67.79 68.59 68.51 74.07 68.82 2.7 68.35 68.54 68.78 67.62 67.62 68.93 74.01 68.69 67.97 67.68 67.77 69.87 67.78 67.72 68.74 68.77 67.73 67.75 67.77 28 68.49 68.78 67.62 69.09 74.03 68.74 68.02 69.44 69.19 29 68.57 68.79 68.71 68.03 67.70 68.57 67.61 30 68.71 68.80 69.79 74.06 68.61 67.81 67.69 68.02 68.50 31 68.53 68.89 67.46 ---70.49 68.51 67.84 67.74 LOW 68.69 68.82 68.89 68.86 67.70 70.49 74.07 74.15 68.46 67.97 67.97 69.87 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 68.34 68.60 67.80 68.07 67.96 65.79 2 68.16 68.46 67.94 68.08 67.96 67.69 67.78 66.19 ___ ___ ___ 68.04 67.75 68.40 68.22 68.04 67.97 67.90 67.62 67.96 67.96 67.77 67.78 67.98 66.19 66.26 ------------5 67.85 67.90 68.00 67.62 67.88 67.79 68.13 66.26 ___ ___ ___ 67.79 68.00 67.81 68.07 68.02 66.21 67.76 67.79 67.79 67.70 67.94 67.89 68.11 67.86 66.20 ------------68.01 67.94 67.78 67.89 67.95 67.80 67.79 ___ ___ ___ 8 67.64 68.10 68.11 66.16 ---67.60 68.02 10 67.59 68.00 67.96 68.07 67.83 66.19 ___ 68.08 67.76 68.00 68.05 67.69 67.66 12 67.59 67.90 67.88 67.93 68.03 67.79 66.13 ___ ---------67.80 67.90 67.99 13 67.63 67.99 67.90 67.79 66.09 ---___ ------67.61 67.62 15 67.57 67.99 67.99 67.99 67.98 67.79 67.35 65.96 ___ ___ 65.97 17 67.14 67.97 68 08 67.89 67.79 67.70 67.70 66.70 66.09 ___ ___ ___ ___ 18 66.66 67.94 68.08 67.89 67.89 67.79 67.94 66.59 66.09 66.20 ------------66.44 68.06 68.02 66.59 19 67.60 20 66.34 68.07 67.97 67.77 67.75 67.94 66.58 66.07 ___ ___ ___ ___ 68.05 67.79 66.05 66.80 68.01 67.74 67.76 67.79 66.59 22 68.70 67.94 67.89 67.79 66.05 ------------68.01 67.94 67.90 67.89 67.86 67.69 67.89 ___ ___ 23 69 59 68.01 66 56 66.01 ___ ___ 70.22 25 70.56 67.90 67.97 67.85 67.79 67.89 66.38 66.03 ___ 70.97 68.00 67.85 66.38 66.01 26 27 28 71.18 67.92 68.01 67.89 67 79 67.86 66.35 65.84 ------67.92 67.79 67.88 ___ ___ 70.55 68.00 68.01 67.86 66.48 65.83 67.78 67.79 67.97 66.48 29 69.83 67.89 68.00 65.82 30 69 40 67.79 67.84 67.97 65.69 ___ e71.69 ___ ___ 66.25 31 68.91 67.95 67.92 ---67.79 65.68 ---------LOW 71.18 68.60 68.10 68.08 68.07 68.11 68.13 66.26 65.79 71.69 ___

116

e Estimated

SITE NUMBER 22—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURFA	ACE DATUM,		EAR OCTOBE	R 1996 T) SEPTEMBI	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 65.53 65.36 65.29	64.69 64.71 64.62 64.55 64.55	64.79 64.69 64.69 64.69 64.69	64.52 64.46 64.43 64.50	64.39 64.39 64.39 64.46 64.44	64.06 64.06 64.09 64.15 64.17	63.95 63.99 63.93 63.60 63.59	63.06 63.13 63.15 63.09 63.08	 	 	65.21 66.59 67.29 67.84 68.10	69.65 69.68 69.61 69.48 69.47
6 7 8 9 10	65.37 65.32 65.19 65.26 65.26	64.54 64.86 64.86 64.89 64.89	64.69 64.69 64.69 64.69 64.59	64.58 64.51 64.46 64.48 64.48	 	64.17 64.02 64.09 64.09	63.69 63.90 63.92 63.84 63.81	63.02 62.93 63.08 63.05 62.92	 	 	68.39 68.44 68.49 68.85 68.92	69.40 69.48 69.57 69.59 69.51
11 12 13 14 15	65.07 65.17 65.19 65.06 65.07	64.99 65.01 64.99 64.91 64.69	64.59 64.69 64.76 64.85 64.86	64.69 64.69 64.69 64.51 64.49	64.09 64.24 64.25 64.30	64.03 64.00 64.09 64.09 64.03	63.81 63.75 63.70 63.65 63.81	62.97 62.92 62.73 62.79 62.79	 	 	68.96 69.05 69.05 68.99 69.05	69.43 69.48 69.65 69.62 69.64
16 17 18 19 20	65.01 65.02 65.02 64.74 64.79	 64.70	64.61 64.69 64.69 64.79 64.58	64.65 64.64 64.58 64.54 64.43	64.30 64.20 64.27 64.27 64.19	63.84 64.06 64.09 64.03 63.92	63.81 63.71 63.58 63.56 63.54	62.75 62.69 62.81 62.82 62.79		66.55 66.69 66.90 67.01 67.03	69.27 69.32 69.23 69.29 69.35	69.51 69.56 69.54 69.67 69.75
21 22 23 24 25	64.97 64.95 64.82 64.83 64.69	64.97 64.97 65.19 65.19	64.54 64.59 64.73 64.72 64.64	64.38 64.46 64.37 64.49 64.49	64.20 64.29 64.34 64.34 64.20	63.94 63.93 63.89 63.89 63.92	63.49 63.58 63.57 63.60 63.60	62.69 62.68 62.67 62.60	 	67.06 67.06 67.03 66.42 66.13	69.39 69.39 69.38 69.38 69.44	69.65 69.59 69.68 69.40 68.71
26 27 28 29 30 31	64.89 64.89 64.83 64.64 64.71	65.17 65.17 64.92 64.79 64.85	64.61 64.43 64.65 64.65 64.68 64.60	64.49 64.49 64.49 64.38 64.29	63.96 63.90 63.98 	63.83 63.70 63.78 63.89 63.89 63.79	63.54 63.45 63.15 63.14 63.14		 	67.14 67.72 67.99 67.71 66.31 65.34	69.40 69.39 69.39 69.40 69.49 69.43	68.27 68.59 68.79 68.97 69.10
	CE E2	65.19	64.86	64.69	64.46	64.17	63.99	63.15		67.99	69.49	69.75
LOW	65.53	03.17										
LOW	05.53				LAND-SURF	ACE DATUM,		EAR OCTOBE	R 1997 T	O SEPTEMBI	ER 1998	
LOW	OCT							EAR OCTOBE	R 1997 TO	O SEPTEMBI JUL	ER 1998 AUG	SEP
		WATER LEV	EL, IN FEI	ET BELOW	DA	LILY LOWES	T VALUES					SEP 69.50 69.40 69.46 69.49 69.55
DAY 1 2 3 4	OCT 69.13 69.13 69.16 69.22	NOV 67.78 67.67 67.57 67.26	DEC 66.44 66.53 66.55 66.52	JAN 66.10 66.10 66.27 66.20	DA FEB 66.15 66.26 66.26 66.19	MAR 66.29 66.29 66.29 66.17	T VALUES APR	MAY 	JUN 66.79 67.66 68.14	JUL 67.66 68.07 68.36 68.48	AUG 69.47 69.50 69.52 69.59	69.50 69.40 69.46 69.49
DAY 1 2 3 4 5 6 7 8 9	OCT 69.13 69.16 69.22 69.29 69.39 69.31 69.35 69.44	NOV 67.78 67.67 67.57 67.26 67.29 67.10 67.10	DEC 66.44 66.53 66.55 66.52 66.52 66.52 66.35 66.27 66.48 66.62	JAN 66.10 66.27 66.20 66.19 66.24 66.24	DA FEB 66.15 66.26 66.26 66.19 66.23 66.23 66.20 66.17 66.19 66.28	MAR 66.29 66.29 66.29 66.17 66.20 66.20 66.30 66.39 66.39	APR	MAY	JUN 66.79 67.66 68.14 68.47 68.69 68.75 68.78 68.89 68.88	JUL 67.66 68.07 68.36 68.48 68.69 68.94 69.06 69.09 69.09	AUG 69.47 69.50 69.52 69.59 69.49 69.43 69.50 69.58 69.59	69.50 69.40 69.49 69.55 69.69 69.60 69.50 69.59
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 69.13 69.16 69.22 69.29 69.39 69.31 69.44 69.41 69.30 69.49 69.58	NOV 67.78 67.67 67.57 67.26 67.29 67.21 67.10 67.07 67.13 67.12 66.87 66.82 66.59	DEC 66.44 66.53 66.55 66.52 66.35 66.48 66.62 66.64 66.60 66.52 66.48	JAN 66.10 66.27 66.20 66.19 66.24 66.22 66.19 66.24	DA FEB 66.15 66.26 66.26 66.19 66.23 66.20 66.17 66.19 66.28 66.28 66.27 66.20	MAR 66.29 66.29 66.29 66.17 66.20 66.20 66.19 66.34 66.39 66.39 66.33 66.19 66.19	APR	MAY	JUN 66.79 67.66 68.14 68.47 68.69 68.75 68.78 68.89 68.88 68.99 69.13 69.13 69.23	JUL 67.66 68.07 68.36 68.48 68.69 68.94 69.06 69.09 69.16 69.19 69.19 69.37	AUG 69.47 69.50 69.52 69.59 69.49 69.43 69.58 69.59 69.13 67.68 66.80 66.03	69.50 69.40 69.46 69.49 69.55 69.69 69.60 69.50 69.59 69.67 69.66 69.62 69.62
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 69.13 69.16 69.22 69.29 69.39 69.31 69.41 69.30 69.40 69.49 69.58 69.67	NOV 67.78 67.67 67.57 67.26 67.29 67.21 67.10 67.07 67.13 67.12 66.87 66.82 66.59 66.79 66.87	EL, IN FEI DEC 66.44 66.53 66.55 66.52 66.59 66.52 66.35 66.48 66.62 66.48 66.60 66.52 66.48 66.30 66.45 66.33 66.33	JAN 66.10 66.27 66.20 66.19 66.24 66.22 66.16 66.19	FEB 66.15 66.26 66.26 66.19 66.23 66.23 66.20 66.17 66.19 66.28 66.28 66.27 66.20 66.10 66.16 66.16 66.16	MAR 66.29 66.29 66.29 66.17 66.20 66.19 66.34 66.39 66.39 66.39 66.39 66.19 66.19 66.19 66.19 66.25 66.25	APR	MAY	JUN 66.79 67.66 68.14 68.47 68.69 68.75 68.78 68.89 69.13 69.12 69.23 69.23 69.19 69.19 69.19 69.16	JUL 67.66 68.07 68.36 68.48 68.69 68.94 69.09 69.09 69.19 69.19 69.19 69.49 69.49 69.49 69.49 69.49 69.49	AUG 69.47 69.50 69.52 69.59 69.56 69.49 69.43 69.50 69.58 69.59 69.13 67.68 66.03 65.52 66.96 67.69 68.11 68.55	69.50 69.40 69.46 69.49 69.55 69.69 69.60 69.50 69.59 69.66 69.65 69.65 69.65 69.59
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 69.13 69.16 69.22 69.29 69.39 69.31 69.41 69.30 69.49 69.58 69.67 69.62 69.47 69.49 69.59 69.54	NOV 67.78 67.67 67.26 67.29 67.21 67.10 67.07 67.13 67.12 66.87 66.82 66.59 66.79 66.67 66.62 66.61 66.53	EL, IN FEI DEC 66.44 66.53 66.55 66.52 66.59 66.48 66.62 66.44 66.60 66.52 66.48 66.30 66.45 66.33 66.38 66.38 66.53 66.38	JAN 66.10 66.10 66.27 66.20 66.19 66.24 66.22 66.16 66.19 66.24	FEB 66.15 66.26 66.26 66.29 66.23 66.23 66.20 66.17 66.19 66.28 66.28 66.20 66.10 66.16 66.20 66.10 66.16 66.16 66.24 66.25 66.25	MAR 66.29 66.29 66.29 66.17 66.20 66.29 66.19 66.39 66.39 66.39 66.39 66.39 66.39 66.39 66.39 66.39 66.39 66.19 66.10 66.10 66.10 66.10 66.10 66.10	APR	MAY	JUN 66.79 67.66 68.14 68.47 68.69 68.75 68.78 68.89 69.13 69.12 69.23 69.19 69.19 69.13 69.16 68.81	JUL 67.66 68.07 68.36 68.48 68.69 68.94 69.09 69.19 69.19 69.19 69.28 69.37 69.45 69.47 69.49 69.52 69.56	AUG 69.47 69.50 69.52 69.59 69.56 69.49 69.43 69.50 69.58 69.59 69.13 67.68 66.03 65.52 66.96 67.69 68.11 68.55 68.78	69.50 69.40 69.46 69.49 69.55 69.69 69.50 69.50 69.62 69.62 69.65 69.65 69.69 69.69 69.69 69.69

SITE NUMBER FROM LOCATION MAP.—23.

COUNTY.—Meade.

LOCAL WELL NUMBER.—5N5E16CAAD.

SITE ID (STATION NUMBER).—442335103311001.

OTHER IDENTIFIER.—MD-86A and Sturgis.

LOCATION.—Lat 44°23′36.7″, long 103°31′11.2″, in SE¹/4NE¹/4NE¹/4SW¹/4 sec. 16, T. 5 N., R. 5 E., Hydrologic Unit 10120202, 1 mi southwest of Sturgis. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

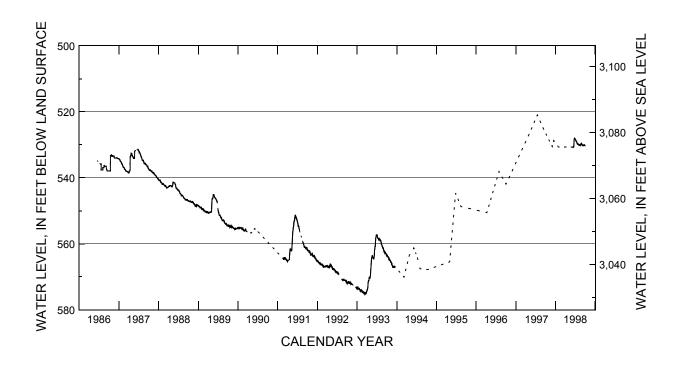
WELL CHARACTERISTICS.—Drilled observation well, 839 ft deep with 712 ft of 5-in. steel casing; open hole from 712 to 839 ft.

INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- 60-minute interval. Digital water-level recorder prior to February 1991.

DATUM.—Elevation of land-surface datum is 3,606.3 ft above sea level. Measuring point: Top of steel casing, 1.90 ft above land-surface datum.

REMARKS.—Records fair. The recording equipment furnished no record from Dec. 15, 1993 until June 2, 1998. PERIOD OF RECORD.—June 1986 to September 1998.

EXTREMES.—Highest daily water level, 521.0 ft (estimated) below land-surface datum, July 17, 1997; lowest daily water level, 575.40 ft below land-surface datum, Mar. 12, 1993.



SITE NUMBER 23—Continued
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3								e565.50				
4												
5												
6												
7												
8												
9												
10												
11												
12	e567.85											
13												
14												
15											e548.77	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27									e544.68			
28												
29												
30												
31												
LOW	567.85							565.50	544.68		548.77	
	307.03							505.50	311.00		3 20 /	

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10							e550.60					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30										e538.10		
31												
LOW							550.60			538.10		

e Estimated

WATER	LEVEL,	IN	FEET	BELOW	LAND-	SURFACE	DATUM,	WA	TER	YEAR	OCTOBER	1996	TO	SEPTEMBER	1997
					DAII	LY OBSER	VATION	AΤ	120	0 HOU	RS				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	e541.95											
3												
4												
5												
6												
7												
8												
9												
10												
11												e525.10
12												
13												
14												
15												
16												
17										e521.00		
18												
19												
20												
20												
21												
22												
23												
24												
25												
23												
26												
27												
28												
29							e527.10					
30												
31												
J 1												
LOW	541.95						527.10			521.00		525.10

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			e530.58							528.37	529.93	529.81
2									530.73	528.48	529.98	530.02
3									530.82	528.54	530.06	530.07
4									530.71	528.59	529.94	530.18
5									530.73	528.61	530.09	530.16
6									530.75	528.71	530.13	530.11
7									530.75	528.71	530.19	530.17
8									530.74	528.83	530.12	530.27
9									530.77	528.96	530.11	530.33
10									530.83	529.06	530.12	530.36
11									530.80	529.10	530.07	530.37
12									530.77	529.00	530.06	530.31
13									530.79	529.06	530.08	530.19
14									530.69	e529.05	530.07	530.15
15			e528.73						530.75	529.15	530.16	530.20
16									530.76	529.25	530.20	530.21
17									530.67	529.41	530.21	530.25
18									530.57	529.61	530.23	530.36
19									529.94	529.64	530.10	530.17
20									529.28	529.66	530.14	530.04
21									528.80	529.71	530.09	530.06
22									528.47	529.82	529.78	530.07
23									528.18	529.80	529.69	530.10
24									528.11	529.82	529.56	530.18
25									528.08	529.74	529.64	530.23
26									528.01	529.70	529.59	530.11
27				e530.65					528.03	529.80	529.54	530.14
28									528.17	529.79	529.56	530.24
29									528.15	529.80	529.70	530.29
30									528.21	529.81	529.74	530.21
31										529.93	529.76	
LOW			530.58	530.65					530.83	529.93	530.23	530.37

e Estimated

SITE NUMBER FROM LOCATION MAP.—24.

COUNTY.—Meade.

LOCAL WELL NUMBER.—4N6E19AABA3.

SITE ID (STATION NUMBER).—441759103261203.

OTHER IDENTIFIERS.—MD-95A and Tilford Mnkt.

LOCATION.—Lat 44°17′59.9″, long 103°26′12.3″, in NE¹/4NW¹/4NE¹/4NE¹/4 sec. 19, T. 4 N., R. 6 E., Hydrologic Unit 10120111, at Tilford. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnekahta.

WELL CHARACTERISTICS.—Drilled observation well, 180 ft deep with 131 ft of 2-in. PVC casing, and 18-slot, 2-in. PVC schedule 80 screen, from 131 to 180 ft.

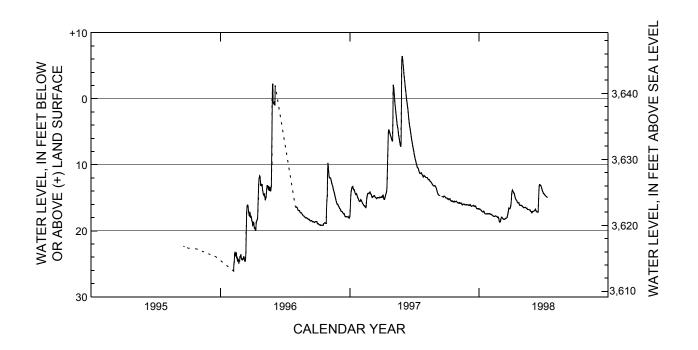
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,639.2 ft above sea level. Measuring point: Top of PVC casing, 1.8 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1995 to September 1998.

EXTREMES.—Highest daily water level, 6.47 ft above land-surface datum, May 29, 1997; lowest daily water level, 26.11 ft below land-surface datum, Feb. 7, 1996.



WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DAI	LY LOWEST	' VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
-												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												e22.35
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
LOW												22.35

WATER LEVEL, IN FEET BELOW OR ABOVE (+) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						24.34	19.18	14.41	.58		16.43	18.05
2	e22.65					24.27	19.09	14.58	.47		16.44	18.11
3						24.41	18.73	14.43	1.02		16.40	18.18
4						24.35	18.79	14.42	e+2.00		16.44	18.19
						24.33	19.15	14.74			16.44	
5						24.34	19.15	14./4			16.49	18.23
6					26.07	24.12	19.60	15.01			16.67	18.30
7					26.11	23.89	19.54	15.38			16.87	18.28
8					24.99	24.10	19.69	15.03			16.91	18.27
9					24.79	24.45	20.00	14.93			16.96	18.35
10					23.54	24.63	19.83	14.29			16.93	18.48
10					25.51	21.03	17.05	11.25			10.00	10.10
11					23.20	24.63	18.79	13.60			16.94	18.52
12					23.62	24.20	18.54	13.11			17.03	18.52
13					23.87	23.24	18.49	13.21			17.20	18.48
14					23.62	20.31	18.28	13.38			17.27	18.47
15					23.30	17.33	18.17	13.22			17.30	18.52
13					23.30	17.55	10.17	13.22			17.30	10.52
16					24.17	16.25	16.92	13.83			17.31	18.54
17					23.97	16.12	15.11	13.30			17.30	18.65
18					24.48	16.13	13.08	13.96			17.43	18.65
19			e23.95		24.67	16.30	12.03	13.43			17.49	18.64
20					24.35	17.02	12.03	13.48			17.53	18.63
20					24.55	17.02	12.05	13.40			17.55	10.03
21					24.46	17.18	11.71	13.97			17.68	18.68
22					24.98	17.67	11.83	13.96			17.72	18.71
23					24.48	17.75	12.62	13.57			17.78	18.77
24					24.66	17.16	13.18	13.25			17.78	18.72
25	e22.75				23.93	17.44	12.90	9.73			17.86	18.66
23	CZZ.75				23.73	17.44	12.50	2.73			17.00	10.00
26					23.95	18.03	13.20	2.30			17.91	18.62
27					23.77	17.73	13.22	+1.99			17.94	18.59
28					23.59	17.90	12.97	+2.26			18.04	18.62
29					24.24	18.20	13.91	.60			18.07	18.64
30						18.55	14.05	.68			18.07	18.62
31						18.64	14.03	.79		16.38	18.03	10.02
31						10.04		. 19		10.30	10.03	
LOW	22.75		23.95		26.11	24.63	20.00	15.38	1.02	16.38	18.07	18.77

e Estimated

SITE NUMBER 24—Continued

	WATER	LEVEL, IN	FEET BELOW	OR ABOVE		LAND-SURFACE			OCTOBER	1996 TO	SEPTEMBER	1997
DAY	OCT	NOV	DEC	JAN	FEE	B MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	18.87 18.96 18.91 18.96 19.02	10.31 11.05 11.62 12.01 12.02	16.32 16.54 16.63 16.70	17.83 17.01 15.47 14.53 13.99	15.30 15.35 15.48 15.62 15.71	14.47 14.66 14.80	14.95 14.97 14.88 14.65 14.60	6.41 6.33 .57 +2.08 +1.70	+5.10 +4.48 +3.85 +3.30 +2.71	8.01 8.39 8.65 8.90 9.17	11.74 11.79 11.84 11.94 11.95	13.39 13.47 13.62 13.87 14.07
6 7 8 9 10	19.08 19.09 19.11 19.19 19.18	11.99 12.01 12.10 12.35 12.56	16.87 17.05 17.07 17.07 17.09	13.67 13.43 13.34 13.29 13.44	15.86 15.93 16.00 16.16	3 14.82 14.78 14.80	14.82 15.15 15.28 15.27 15.09	+1.28 +.52 .34 .92 1.53	+2.14 +1.66 +1.25 +.64 +.17	9.36 9.58 9.82 10.00 10.21	11.94 11.95 11.95 12.12 12.15	14.23 14.41 14.52 14.60 14.61
11 12 13 14 15	19.12 19.18 19.18 19.18 19.18	12.83 13.05 13.22 13.32 13.63	17.23 17.27 17.33 17.47 17.47	13.70 13.83 13.84 13.81 14.19	16.24 16.36 16.44 16.50	14.68 5 14.88 14.94	14.89 14.66 14.45 14.26 14.12	2.10 2.47 3.00 3.53 3.91	.30 .66 1.13 1.52 2.00	10.42 10.50 10.50 10.65 10.84	12.20 12.29 12.30 12.28 12.39	
16 17 18 19 20	19.18 19.19 19.15 18.91 18.89	13.87 14.09 14.23 14.48 14.80	17.43 17.63 17.83 17.89 17.87	14.30 14.45 14.54 14.49 14.41	16.35 15.75 15.02 14.77 14.41	5 15.10 2 15.16 7 15.08	13.43 12.09 9.65 6.61 5.12	4.22 4.53 5.10 5.48 5.80	2.63 3.20 3.68 4.06 4.35	11.05 11.19 11.36 11.36 11.28	12.53 12.55 12.56 12.69 12.76	
21 22 23 24 25	18.84 18.80 18.85 18.85 18.90	14.98 15.16 15.50 15.64 15.86	17.85 17.86 17.93 17.93 17.91	14.61 14.74 14.89 15.11 15.17	14.36 14.36 14.40 14.28	14.98 5 14.97 0 15.05	4.68 4.86 4.92 5.16 5.41	6.14 6.50 6.79 7.14 7.27	4.72 5.04 5.48 5.89 6.25	11.27 11.24 11.37 11.47 11.55	12.84 12.94 13.01 13.11 13.18	14.87 14.87 14.90 14.78 14.80
26 27 28 29 30 31	18.90 16.97 15.40 14.71 11.69 9.73	15.99 16.00 16.00 16.20 16.28	17.91 17.86 18.00 18.02 18.10 18.07	15.34 15.49 15.49 15.59 15.55 15.49	14.24 14.15 14.32	14.90 14.96 - 14.99 - 14.98	5.61 5.66 5.87 6.11 6.26	6.82 +1.20 +5.81 +6.47 +6.11 +5.68	6.48 6.81 7.16 7.45 7.74	11.69 11.78 11.89 11.83 11.64 11.71	13.23 13.25 13.18 13.19 13.22 13.23	14.79 14.86 14.92 14.99 15.07
	19.19	16.28	18.10	17.83	16.50	15.16	15.28	7.27	7.74	11.89	13.25	15.07
LOW	17.17											
LOW	17.17		EL, IN FEET	BELOW LA		RFACE DATUM DAILY LOWES			R 1997 I	O SEPTEM	BER 1998	
LOW	OCT		EL, IN FEET	JAN		DAILY LOWES			R 1997 T JUN	O SEPTEM	BER 1998 AUG	SEP
		WATER LEV				DAILY LOWES MAR 18.71 18.71 9 18.59 9 18.31	ST VALUES	3				SEP
DAY 1 2 3 4	OCT 15.08 15.04 15.08 15.09	NOV 15.73 15.78 15.77 15.84	DEC 16.07 16.12 16.11 16.16	JAN 16.64 16.71 16.75 16.72	FEE 17.43 17.51 17.49 17.49	DAILY LOWES MAR 18.71 18.59 18.31 18.09 17.94 17.94 18.03 18.08	APR 16.33 15.93 15.18 14.45	MAY 16.18 16.21 16.21 16.32	JUN 17.08 17.14 17.13 17.09	JUL 14.09 14.24 14.39 14.39	AUG 	
DAY 1 2 3 4 5 6 7 8 9	OCT 15.08 15.04 15.09 15.18 15.26 15.16 15.21	NOV 15.73 15.78 15.77 15.84 15.75 15.75 15.86	DEC 16.07 16.12 16.11 16.16 16.17 16.12 16.04 16.07 16.19	JAN 16.64 16.71 16.75 16.72 16.83 16.87 16.88 16.91 17.01	FEE 17.43 17.53 17.49 17.66 17.60 17.61	DAILY LOWES MAR 18.71 18.71 29.18.59 20.18.31 20.17.94 17.94 18.03 1.8.08 20.17.94 21.18.08 21.18.08 20.18.21 20.18.21 20.18.21 20.18.25 20.18.28	APR 16.33 15.93 15.18 14.45 13.98 13.86 13.97 14.07 14.23	MAY 16.18 16.21 16.21 16.32 16.33 16.44 16.48 16.51 16.51	JUN 17.08 17.14 17.13 17.09 17.06 17.02 16.99 16.97 16.87	JUL 14.09 14.24 14.39 14.45 14.53 14.62 14.70	AUG	
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 15.08 15.04 15.08 15.09 15.18 15.26 15.16 15.21 15.23 15.21	NOV 15.73 15.78 15.77 15.84 15.75 15.84 15.75 15.88 15.82 15.88 15.82	DEC 16.07 16.12 16.11 16.16 16.17 16.12 16.04 16.07 16.19 16.28 16.31 16.28 16.25	JAN 16.64 16.71 16.75 16.72 16.83 16.88 16.88 16.91 17.01 17.08 17.13 17.13 17.13	FEF 17.43 17.51 17.49 17.56 17.60 17.61 17.75 17.82 17.82 17.82	DAILY LOWES MAR 18.71 18.71 18.59 18.31 5 18.09 17.94 17.94 18.03 1 18.08 5 18.21 0 18.21 0 18.21 0 18.21 0 18.25 18.30 5 18.28 8 18.24	APR 16.33 15.93 15.18 14.45 13.98 13.86 13.97 14.07 14.23 14.30 14.31 14.55 14.84 15.03	MAY 16.18 16.21 16.21 16.32 16.33 16.44 16.48 16.51 16.50 16.47 16.48 16.48 16.52	JUN 17.08 17.14 17.13 17.09 17.06 17.02 16.99 16.97 16.87 16.76 16.89 17.03 17.06 17.06 17.06	JUL 14.09 14.24 14.39 14.39 14.45 14.53 14.62 14.70 14.74 14.79 14.82 14.82 14.92	AUG	
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 15.08 15.04 15.09 15.18 15.26 15.16 15.21 15.23 15.21 15.46 15.54 15.55 15.55	NOV 15.73 15.78 15.77 15.84 15.75 15.73 15.86 15.88 15.82 15.84 16.01 16.11 16.10 16.01 15.98	DEC 16.07 16.12 16.11 16.16 16.17 16.12 16.04 16.07 16.19 16.28 16.31 16.28 16.25 16.23 16.24 16.18 16.25 16.32	JAN 16.64 16.71 16.75 16.72 16.83 16.87 16.88 16.91 17.01 17.08 17.13 17.13 17.13 17.13 17.13 17.13 17.13 17.13	FEE 17.43 17.56 17.49 17.56 17.61 17.61 17.75 17.82 17.83 17.83 17.78 17.83	DAILY LOWES MAR 18.71 18.71 29.18.59 20.18.31 20.17.94 21.17.94 21.17.94 21.17.94 21.17.94 21.18.25 21.18.30 21.18.21 22.18.30 23.18.21 24.18.25 25.18.30 26.18.28 27.18.30 28.21 29.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.21 20.18.22 20.18.25 20.18.	APR 16.33 15.93 15.18 14.45 13.98 13.86 13.97 14.07 14.23 14.30 14.31 14.55 14.84 15.03 15.18 15.27 15.43 15.58	MAY 16.18 16.21 16.21 16.32 16.33 16.44 16.51 16.51 16.50 16.47 16.48 16.46 16.52 16.60 16.65 16.62 16.72 16.79	JUN 17.08 17.14 17.13 17.09 17.06 17.02 16.99 16.97 16.87 16.76 17.03 17.06 17.16 17.16 17.16 17.16 17.16 17.16 17.16	JUL 14.09 14.24 14.39 14.39 14.45 14.53 14.62 14.70 14.74 14.79 14.82 14.92 14.92	AUG	
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 15.08 15.04 15.09 15.18 15.26 15.16 15.21 15.23 15.21 15.45 15.55 15.55 15.55 15.55 15.55 15.54	NOV 15.73 15.78 15.77 15.84 15.75 15.73 15.88 15.82 15.82 15.84 15.80 15.85 16.01 16.11 16.10 16.90 15.98 15.97 15.99 16.00 16.06 16.03 16.03	DEC 16.07 16.12 16.11 16.16 16.17 16.12 16.04 16.07 16.19 16.28 16.31 16.28 16.25 16.23 16.24 16.18 16.25 16.23 16.24 16.18 16.25 16.32 16.24 16.18 16.25 16.31 16.47	JAN 16.64 16.71 16.75 16.72 16.83 16.87 16.88 16.91 17.01 17.08 17.13 17.13 17.13 17.13 17.14 17.42 17.47 17.48 17.46 17.47 17.41	FEE 17.43 17.56 17.49 17.66 17.61 17.62 17.83 17.83 17.83 17.83 17.84 17.84 17.86 17.83	DAILY LOWES MAR 18.71 18.59 18.31 5 18.09 17.94 14.18.03 1 18.08 5 18.21 0 18.21 0 18.25 18.30 18.28 18.24 5 18.25 18.15 18.10 18.	APR 16.33 15.93 15.18 14.45 13.98 13.86 13.97 14.07 14.23 14.30 14.31 14.55 14.84 15.03 15.18 15.27 15.43 15.58 15.71	MAY 16.18 16.21 16.21 16.32 16.33 16.44 16.51 16.51 16.50 16.47 16.48 16.52 16.60 16.65 16.72 16.79 16.79 16.79 16.79 16.79 16.86	JUN 17.08 17.14 17.13 17.09 17.06 17.02 16.99 16.97 16.87 16.76 16.89 17.03 17.06 17.16 17.16 17.16 17.16 17.16 15.22 13.76 13.19 13.01 13.03 13.14	JUL 14.09 14.24 14.39 14.39 14.45 14.53 14.62 14.70 14.74 14.79 14.82 14.87 14.92 14.99	AUG	

SITE NUMBER FROM LOCATION MAP.—25.

COUNTY.—Meade.

LOCAL WELL NUMBER.—4N6E19AABA2.

SITE ID (STATION NUMBER).—441759103261202.

OTHER IDENTIFIERS.—MD-90A and Tilford Mdsn.

LOCATION.—Lat 44°17′59.7″, long 103°26′12.2″, in NE¹/4NW¹/4NE¹/4NE¹/4 sec. 19, T. 4 N., R. 6 E., Hydrologic Unit 10120111, at Tilford. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 840 ft deep with 750 ft of 5-in. steel casing; open hole from 750 to 840 ft.

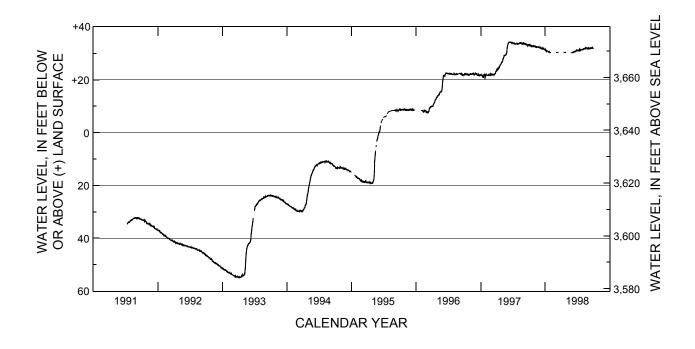
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,639.1 ft above sea level. Measuring point: Top of steel casing, 2.20 ft above land-surface datum. Base for gage 4.1 ft above land-surface datum since August 1995.

REMARKS.—Records fair.

PERIOD OF RECORD.—July 1991 to September 1998.

EXTREMES.—Highest daily water level, 34.34 ft above land-surface datum, June 15, 1997; lowest daily water level, 54.96 ft below land-surface datum, Mar. 31, Apr. 1, 3, 7, 1993.



SITE NUMBER 25—Continued

WATER LEVEL, IN FEET BELOW OR ABOVE (+) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DA	ILY LOWES	T VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.07	13.12	13.75		16.75	18.64	18.77	19.03	1.02			+8.44
2	13.12	13.35	13.79		17.15	18.53	18.78	18.71	.79			+8.47
3	13.49	13.37	13.85		17.27	18.34	18.99	18.44	.54		e+8.01	+8.49
4	13.50	13.36	14.11		17.20	18.41	18.98	18.37	.34			+8.42
5	13.35	13.43	14.13		17.21	18.42	18.75	18.22	.02	e+6.00		+8.50
6	13.15	13.48	14.06		17.28	18.67	18.76	17.89	+.39			+8.24
7	13.59	13.43	14.12		17.43	18.79	18.75	17.67	+.24			+8.22
8	13.64	13.50	14.18		17.39	18.75	18.72	17.50	+.24			+8.28
9	13.60	13.49	14.19		17.25	18.48	19.03	16.46	+.44			+8.40
10	13.46	13.36	14.29		17.36	18.54	19.10	14.74	+.75		e+8.19	+8.48
11	13.36	13.30	14.14		17.42	18.47	19.03	12.84	+1.27			+8.60
12	13.59	13.28	14.23		17.40	18.52	19.09	11.02	+2.07			+8.54
13	13.66	13.56	14.22		17.40	18.82	19.08	9.73	+2.22			+8.33
14	13.41	13.83	14.22		17.40	18.93	18.81	9.25		e+6.05		+8.27
15	13.21	13.83	14.24		17.50	18.88	19.00	8.33				+8.60
16	13.42	13.41	14.33		17.70	18.86	19.17	7.32			e+8.32	+8.39
17	13.42	13.37	14.50		17.68	18.86	19.07					+8.47
18	13.46	13.69	14.50		18.01	18.70	19.05					+8.39
19	13.47	13.69	14.49		18.01	18.44	19.01		e+4.12			+8.26
20	13.44	13.56	14.59		18.11	18.48	18.90					+8.20
21	13.33	13.93	14.79		17.95	18.34	19.27					+8.12
22	13.40	13.96	14.83		18.03	18.49	19.28					+8.31
23	13.45	13.94	14.79	16.37	18.29	18.59	19.18		e+4.80		e+8.43	+8.46
24	13.54	13.75	14.62	16.56	18.20	18.42	19.14					+8.44
25	13.51	13.75	14.73	16.53	18.07	18.74	19.10	2.94				+8.57
26	13.31	13.49		16.41	18.31	18.82	19.16	2.69		e+7.50		+8.71
27	13.09	13.49		16.68	18.60	18.99	19.09	2.31				+8.74
28	13.28	13.80		16.97	18.64	19.02	19.00	2.16		e+7.90		+8.72
29	13.40	13.87		16.97		19.02	19.10	1.97				+8.83
30	13.42	13.79		16.85		18.90	19.00	1.68				+8.66
31	13.40			16.70		18.80		1.30			+8.37	
LOW	13.66	13.96	14.83	16.97	18.64	19.02	19.28	19.03	1.02	+6.00	+8.01	+8.12
	7	WATER LEVI	EL, IN FE	ET ABOVE I		ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+8.64 +8.56 +8.61 +8.77 +8.47	+8.40 +8.37 +8.38 +8.41 +8.73	+8.90 +8.71 +8.57 +8.76 +8.58	 	 	+8.08 +7.99 +8.00 +7.94 +7.70	+9.97 +10.27 +10.00 +9.95 +9.95	+13.83 +13.99 +14.03 +13.97 +13.95	+20.05 +20.42 +20.83 +21.38 +21.83	+22.24 +22.25 +22.34 +22.41 +22.33	+22.14 +22.22 +22.47 +22.44 +22.34	 +22.45 +22.60
6 7 8 9 10	+8.45 +8.60 +8.65 +8.68 +8.67	+8.62 +8.41 +8.41 +8.90 +8.45	+8.57 +8.56 +8.37 +8.33 +8.49	 	+8.35 +8.26 +8.23 +8.28 +7.88	+7.51 +7.34 +7.56 +7.51 +7.81	+10.27 +10.56 +10.67 +10.72 +11.02	+14.16 +14.26 +14.37 +14.20 +14.24	+21.51 +21.40 +21.57 +21.66 +21.61	+22.22 +22.26 +22.18 +22.12 +22.28	+22.13 +21.97 +21.90 +22.05 +22.12	+22.35 +22.34 +22.37 +22.32 +22.12
11 12 13 14 15	+8.76 +8.81 +8.61 +8.59 +8.73	+8.44 +8.66 +8.55 +8.57 +8.53	+8.66 +8.81 +8.97 +8.67 +8.66	 	+7.87 +7.91 +8.19 +8.10 +7.89	+7.90 +7.99 +7.98 +8.08 +8.51	+11.11 +11.18 +11.32 +11.33 +11.42	+14.31 +14.51 +14.67 +15.08 +15.10	+21.67 +21.51 +21.79 +22.06 +22.10	+22.19 +22.10 +22.16 +22.19 +22.29	+22.15 +22.19 +22.03 +22.01 +22.10	+22.09 +22.16 +22.34 +22.48 +22.45
16 17 18 19 20	+8.79 +8.77 +8.79 +8.50 +8.50	+8.62 +8.55 +8.65 +8.45 +8.36	+8.69 +8.44 +8.46 +8.53		+8.02 +8.17 +8.37 +8.48 +8.26	+9.10 +9.28 +9.20 +9.21 +9.28	+11.67 +12.19 +12.30 +12.44 +12.49	+15.19 +15.37 +15.43 +15.49 +15.44	+22.19 +22.24 +22.49 +22.40 +22.44	+22.41 +22.33 +22.26 +22.24 +22.28	+22.13 +22.24 +22.34 +22.16 +22.21	+22.40 +22.19 +21.65 +21.63 +22.04
21 22 23 24 25	+8.77 +8.71 +8.68 +8.71 +8.78	+8.36 +8.59 +8.58 +8.70 +8.68	 	 	+8.25 +8.37 +8.30 +8.23 +7.97	+9.61 +9.69 +9.96 +9.64 +9.62	+12.52 +12.51 +12.70 +13.11 +13.25	+15.43 +15.59 +15.58 +15.54 +15.64	+22.45 +22.55 +22.54 +22.53 +22.48	+22.16 +22.11 +22.14 +21.99 +21.99	+22.13 +22.05 +22.05 +22.16 +22.18	+22.00 +21.92 +21.72 +21.80 +21.93
26 27 28 29 30 31	+8.99 +8.88 +8.79 +8.69 +8.69 +8.63	+8.80 +8.62 +8.67 +8.88 +8.91	 	 	+8.00 +7.71 +7.59 +7.67	+9.79 +9.82 +9.88 +10.01 +9.90 +9.88	+13.26 +13.36 +13.24 +13.27 +13.71	+16.03 +16.48 +16.99 +17.84 +18.83 +19.58	+22.42 +22.44 +22.43 +22.24 +22.22	+22.01 +21.94 +21.94 +21.91 +22.01 +22.07	 	+21.95 +21.95 +21.89 +21.85 +22.02
LOW	+8.45	+8.36	+8.33		+7.59	+7.34	+9.95	+13.83	+20.05	+21.91	+21.90	+21.63

e Estimated

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

	'	WIII DI V	DD, 111 11	adi imove		AILY LOWE:	ST VALUES	Din Ocion	211 1990 1	0 021 12112	.21. 155,	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+22.23 +22.07 +22.27 +22.42 +22.42	+22.08 +22.06 +22.28 +22.33 +22.33	+22.36 +22.20 +22.14 +22.15 +22.47	+21.85 +21.92 +22.02 +21.72 +21.55	+21.93 +21.89 +21.77 +21.63 +21.66	+22.09 +22.14 +22.03 +21.84 +21.72	+23.50 +23.44 +23.66 +24.25 +24.28	+26.79 +26.73 +26.75 +27.00 +27.29	+32.73 +33.02 +33.12 +33.36 +33.75	+34.03 +33.81 +33.69 +33.70 +33.75	+33.69 +33.78 +33.56 +33.67 +33.69	+33.62 +33.54 +33.64 +33.77 +33.69
6 7 8 9 10	+22.23 +22.28 +22.30 +21.90 +21.90	+22.34 +22.08 +22.09 +22.15 +22.14	+22.27 +21.96 +22.01 +22.24 +22.31	+21.58 +21.76 +21.78 +21.76 +21.65	+21.69 +21.69 +21.72 +21.71 +21.71	+21.76 +22.07 +21.95 +21.94 +22.10	+23.98 +23.78 +23.74 +23.96 +24.06	+27.53 +27.95 +27.92 +28.00 +28.40	+33.81 +33.98 +34.08 +34.00 +34.08	+33.85 +33.83 +33.76 +33.85 +33.71	+33.70 +33.82 +34.15 +33.88 +33.81	+33.75 +33.67 +33.52 +33.44 +33.59
11 12 13 14 15	+22.17 +22.03 +22.03 +22.05 +22.05	+22.03 +22.04 +22.05 +22.23 +22.40	+22.01 +21.93 +21.89 +21.62 +21.62	e+21.37 e+21.10 e+21.16 +20.75 +21.55	+21.78 +21.79 +21.90 +21.87 +21.75	+22.10 +22.13 +21.86 +21.84 e+21.88	+24.11 +24.30 +24.48 +24.69 +24.47	+28.50 +28.72 +29.09 +29.02 +29.03	+34.29 +34.25 +34.24 +34.29 +34.34	+33.88 +33.83 +33.78 +33.64 +33.37	+33.90 +33.81 +33.90 +34.13 +34.17	+33.70 +33.66 +33.49 +33.49 +33.55
16 17 18 19 20	+22.10 +21.90 +21.89 +22.40 +22.06	+22.36 +22.28 +22.27 +22.45 +22.21	+21.92 +21.66 +21.67 +21.78 +22.06	e+21.17 +20.71 +21.84 +21.87 +22.04	+21.84 +22.06 +21.78 +21.85 +21.87	e+21.93 +21.97 +21.87 +22.05 +22.17	+24.50 +24.77 +25.08 +25.26 +25.42	+29.23 +29.34 +29.25 +29.23 +29.25	+34.29 +34.17 +34.18 +34.18 +34.15	+33.70 +33.67 +33.64 +33.53 +33.55	+33.85 +33.77 +33.94 +33.85 +33.78	+33.50 +33.49 +33.41 +33.10 +33.01
21 22 23 24 25	+21.89 +21.96 +22.03 +22.05 +22.23	+22.22 +22.29 +21.87 +21.87 +21.92	+21.92 +21.78 +21.51 +21.53 +21.62	+22.11 +22.01 +22.05 +21.70 e+20.28	+21.85 +21.60 +21.55 +21.55 +21.87	+22.13 +22.17 +22.20 +22.40 +22.40	+25.65 +25.65 +25.67 +25.80 +25.84	+29.47 +29.50 +29.47 +29.65 +29.76	+34.14 +34.20 +34.14 +34.02 +33.90	+33.56 +33.66 +33.74 +33.75 +33.39	+33.83 +33.83 +33.32 +33.91 +33.79	+33.16 +33.16 +32.99 +33.22 +33.26
26 27 28 29 30 31	+21.70 +21.67 +21.81 +22.04 +21.97 +21.97	+21.88 +21.88 +22.26 +22.27 +22.23	+21.62 +22.03 +21.74 +21.72 +21.69 +21.75	e+20.94 e+21.25 e+21.49 +21.74 +22.01 +22.13	+22.13 +22.32 +22.21 	+22.70 +23.13 +23.12 +23.12 +23.21 +23.57	+25.94 +26.15 +26.54 +26.58 +26.59	+29.73 +29.86 +30.23 +30.98 +31.59 +32.16	+33.98 +34.15 +34.03 +34.01 +34.01	+33.70 +33.58 +33.47 +33.53 +33.67 +33.74	+33.83 +33.84 +33.75 +33.96 +33.85 +33.94	+33.39 +33.35 +33.26 +33.22 +33.14
LOW	+21.67	+21.87	+21.51	+20.28	+21.55	+21.72	+23.44	+26.73	+32.73	+33.37	+33.32	+32.99
	1	WATER LEV	EL, IN F	EET ABOVE		FACE DATUM AILY LOWE:		EAR OCTOR	ER 1997 I	O SEPTEMB	BER 1998	
DAY	OCT	WATER LEV	EL, IN FI	EET ABOVE JAN				EAR OCTOE	ER 1997 T	O SEPTEMB	BER 1998 AUG	SEP
DAY 1 2 3 4 5					D	AILY LOWE:	ST VALUES					SEP +31.90 +32.10 +32.10 +31.64 +31.98
1 2 3 4	OCT +32.73 +33.28 +33.30 +33.28	NOV +32.65 +32.56 +32.56 +32.50	DEC +32.23 +32.08 +32.08 +32.01	JAN +31.58 +31.33 +30.86 +31.29	FEB 	AILY LOWE: MAR	APR	MAY 	JUN +30.29 +30.29 +30.39	JUL +31.06 +31.18 +31.13 +31.20	AUG +31.60 +31.59 +31.56 +31.43	+31.90 +32.10 +32.10 +31.64
1 2 3 4 5 6 7 8 9	OCT +32.73 +33.28 +33.30 +33.28 +33.17 +33.02 +33.24 +33.01 +33.30 +33.30	NOV +32.65 +32.56 +32.50 +32.50 +32.49 +32.55 +32.67 +32.41 +32.30 +32.44 +32.53 +32.61	DEC +32.23 +32.08 +32.01 +31.98 +32.08 +32.37 +32.01 +31.72 +31.70 +31.76	JAN +31.58 +31.33 +30.86 +31.29 +31.19 +31.05 +31.12 +30.72 +30.83	D FEB	MAR	APR	MAY	JUN +30.29 +30.39 +30.29 +30.27 +30.40 +30.52 +30.63 +30.63	JUL +31.06 +31.18 +31.20 +31.09 +31.19 +31.14 +31.16 +31.22	AUG +31.60 +31.59 +31.56 +31.43 +31.49 +31.66 +31.81 +31.83 +31.76 +31.81 +31.84 +31.60	+31.90 +32.10 +32.10 +31.64 +31.98 +31.81 +31.86 +32.04 +32.02 +31.61 +31.92 +31.95
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT +32.73 +33.28 +33.30 +33.28 +33.17 +33.02 +33.24 +33.01 +33.30 +33.00 +32.66	NOV +32.65 +32.56 +32.56 +32.50 +32.49 +32.55 +32.67 +32.41 +32.30 +32.44 +32.53 +32.61 +32.59 +32.59	DEC +32.23 +32.08 +32.08 +32.01 +31.98 +32.08 +32.37 +32.01 +31.72 +31.70 +31.76 +31.81 +31.81	JAN +31.58 +31.33 +30.86 +31.29 +31.19 +31.05 +31.12 +30.72 +30.83 +30.87	D FEB	MAR	APR	MAY	JUN +30.29 +30.29 +30.39 +30.29 +30.27 +30.40 +30.52 +30.43 +30.63 +30.61 +30.49 +30.57 +30.47	JUL +31.06 +31.18 +31.13 +31.20 +31.09 +31.14 +31.16 +31.22 +31.27 +31.18 +31.37 +31.16 +31.51	AUG +31.60 +31.59 +31.56 +31.43 +31.49 +31.66 +31.81 +31.83 +31.76 +31.81 +31.84 +31.60 +31.83 +31.83	+31.90 +32.10 +32.10 +31.64 +31.98 +31.81 +31.86 +32.02 +31.61 +31.92 +31.95 +32.08 +31.91
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT +32.73 +33.28 +33.30 +33.28 +33.17 +33.02 +33.24 +33.01 +33.00 +32.94 +33.01 +33.30 +32.66 +32.55 +32.56 +32.78 +32.66 +32.66 +32.66	NOV +32.65 +32.56 +32.56 +32.50 +32.49 +32.55 +32.67 +32.41 +32.30 +32.44 +32.53 +32.61 +32.59 +32.25 +32.25 +32.25 +32.44	DEC +32.23 +32.08 +32.01 +31.98 +32.37 +32.01 +31.70 +31.76 +31.81 +31.81 +31.87 +31.79 +32.00 +31.84 +31.63	JAN +31.58 +31.33 +30.86 +31.29 +31.19 +31.05 +31.12 +30.72 +30.83 +30.87 +30.82 +30.94 +30.83 +30.78 +30.65 +30.65	D FEB	MAR	APR	MAY	JUN +30.29 +30.29 +30.39 +30.27 +30.40 +30.52 +30.43 +30.63 +30.61 +30.49 +30.57 +30.47 +30.64 +30.61	JUL +31.06 +31.18 +31.13 +31.20 +31.09 +31.19 +31.14 +31.16 +31.22 +31.27 +31.18 +31.37 +31.16 +31.51 +31.26 +30.90 +30.99 +31.09 +31.09 +31.23	AUG +31.60 +31.59 +31.56 +31.43 +31.66 +31.81 +31.83 +31.76 +31.81 +31.84 +31.60 +31.83 +31.76 +31.80 +32.09 +31.90 +31.96 +31.85	+31.90 +32.10 +32.10 +31.64 +31.98 +31.81 +31.86 +32.02 +31.61 +31.92 +31.95 +32.08 +31.91 +31.95 +31.95 +31.95 +31.95 +31.95
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT +32.73 +33.28 +33.30 +33.28 +33.17 +33.02 +33.24 +33.01 +33.30 +32.80 +32.66 +32.55 +32.56 +32.78 +32.66 +32.60 +32.60 +32.60 +32.60 +32.60 +32.60 +32.60 +32.60	NOV +32.65 +32.56 +32.56 +32.50 +32.49 +32.55 +32.67 +32.41 +32.30 +32.44 +32.55 +32.25 +32.25 +32.25 +32.25 +32.37 +32.34 +32.34 +32.34 +32.34 +32.34	DEC +32.23 +32.08 +32.01 +31.98 +32.37 +32.01 +31.70 +31.76 +31.81 +31.87 +31.79 +32.00 +31.81 +31.87 +31.79 +32.00 +31.81 +31.87	JAN +31.58 +31.33 +30.86 +31.29 +31.19 +31.05 +31.12 +30.72 +30.83 +30.87 +30.82 +30.94 +30.83 +30.65 +30.64 +30.51 +30.47 +30.40 +30.57	D FEB	MAR	APR	MAY	JUN +30.29 +30.29 +30.39 +30.27 +30.40 +30.52 +30.43 +30.63 +30.61 +30.49 +30.64 +30.61 +30.72 +30.66 +30.71 +30.96 +30.96 +31.07	JUL +31.06 +31.18 +31.13 +31.20 +31.09 +31.19 +31.14 +31.16 +31.22 +31.27 +31.18 +31.37 +31.16 +31.51 +31.26 +30.90 +31.09 +31.09 +31.03 +31.46 +31.31 +31.23 +31.31 +31.31 +31.32	AUG +31.60 +31.59 +31.56 +31.43 +31.66 +31.81 +31.83 +31.76 +31.81 +31.84 +31.60 +31.87 +31.80 +32.09 +31.90 +31.96 +31.85 +31.74 +31.91 +32.03 +32.03	+31.90 +32.10 +32.10 +31.64 +31.98 +31.81 +31.86 +32.02 +31.61 +31.92 +31.95 +32.08 +31.91 +31.95 +32.15 +32.15 +32.15 +32.18 +31.94 +31.91 +31.92 +32.04 +32.04 +32.04
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 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +32.73 +33.28 +33.30 +33.28 +33.17 +33.02 +33.24 +33.01 +33.30 +32.66 +32.55 +32.56 +32.78 +32.66 +32.60 +32.83 +32.95 +32.97	NOV +32.65 +32.56 +32.56 +32.50 +32.49 +32.55 +32.67 +32.41 +32.30 +32.44 +32.55 +32.25 +32.25 +32.25 +32.25 +32.25 +32.37 +32.34 +32.34 +32.34 +32.34 +32.34 +32.31 +32.31 +32.13	DEC +32.23 +32.08 +32.01 +31.98 +32.37 +32.01 +31.70 +31.70 +31.81 +31.87 +31.87 +31.79 +32.00 +31.81 +31.84 +31.87 +31.55 +31.55 +31.51 +31.53 +31.53 +31.53	JAN +31.58 +31.33 +30.86 +31.29 +31.19 +31.05 +31.12 +30.72 +30.83 +30.87 +30.82 +30.94 +30.83 +30.65 +30.65 +30.40 +30.57 +30.40 +30.57 +30.31 +30.28 +30.29	D FEB	MAR	APR	MAY	JUN +30.29 +30.29 +30.39 +30.29 +30.40 +30.52 +30.43 +30.63 +30.61 +30.49 +30.61 +30.61 +30.61 +30.61 +30.61 +30.61 +30.61 +30.12 +31.08 +31.09 +30.99	JUL +31.06 +31.18 +31.120 +31.09 +31.19 +31.14 +31.16 +31.22 +31.27 +31.18 +31.37 +31.16 +31.51 +31.26 +30.90 +31.99 +31.23 +31.40 +31.31 +31.32 +31.33 +31.36 +31.39 +31.49 +31.49 +31.44	AUG +31.60 +31.59 +31.56 +31.43 +31.66 +31.81 +31.83 +31.76 +31.81 +31.84 +31.60 +31.87 +31.80 +32.09 +31.90 +31.90 +31.91 +32.03 +31.96 +31.91 +32.03 +31.91 +32.03 +31.91 +32.03 +31.91 +32.03 +31.91 +32.09 +31.91 +32.03	+31.90 +32.10 +32.10 +31.64 +31.98 +31.81 +31.86 +32.02 +31.61 +31.92 +31.95 +32.08 +31.91 +31.95 +31.97 +32.15 +32.15 +32.15 +32.17 +31.92 +31.91 +31.92 +31.91 +31.92 +31.91 +31.92 +32.10 +3

e Estimated

SITE NUMBER FROM LOCATION MAP.—26.

COUNTY.—Meade.

LOCAL WELL NUMBER.—4N6E19AABA.

SITE ID (STATION NUMBER).—441759103261201.

OTHER IDENTIFIERS.—MD-84B and Tilford Mnls.

LOCATION.—Lat 44°18′00.1″, long 103°26′12.4″, in NE¹/4NW¹/4NE¹/4NE¹/4 sec. 19, T. 4 N., R. 6 E., Hydrologic Unit 10120111, at Tilford. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 302 ft deep with 296 ft of 5-in. steel casing; open hole from 296 to 302 ft.

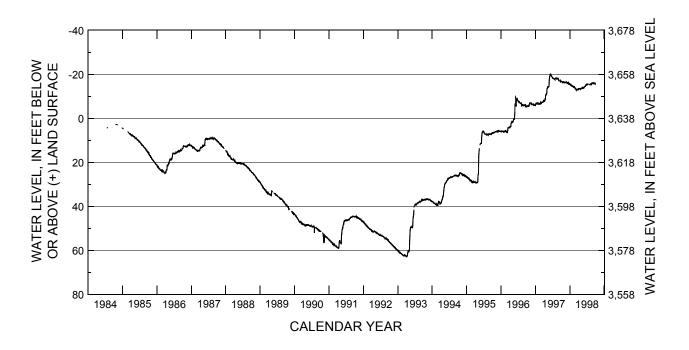
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,638.0 ft above sea level. Measuring point: Top of steel casing, 2.10 ft above land-surface datum, base of gage 3.2 ft above land-surface datum since June 4, 1996.

REMARKS.—Records fair. Unusual fluctuations in water level during 1990 probably caused by drilling adjacent observation well (MD-90A).

PERIOD OF RECORD.—July 1984 to September 1998.

EXTREMES.—Highest daily water level, 20.03 ft above land-surface datum, June 11-12, 15, 1997; lowest daily water level, 62.89 ft below land-surface datum, Apr. 6-7, 1993.



SITE NUMBER 26-Continued

SITE	NUMBER 26-		EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM			ER 1994 T	O SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.25	24.69	25.66	26.68	27.63	29.01	28.99	28.91	11.40	6.00	7.39	7.27
2	26.22 26.50	25.05 25.07	25.67 25.75	26.84 26.87	27.98 28.09	28.93 28.78	29.02 29.22	27.55 26.38	11.40 11.39	5.91 5.93	7.33 7.39	7.23 7.21
4 5	26.68 26.34	25.06 25.19	25.94 25.94	26.87 26.47	27.96 27.98	28.85 28.85	29.22 29.04	25.93 25.67	11.37 11.19	6.22 6.42	7.35 7.27	7.23 7.19
6	26.07	25.20	25.90	26.62	28.03	29.10	29.05	25.39 25.27	11.13	6.59	7.17	7.39
7 8 9	26.08 26.05	25.25 25.32	25.97 26.01	26.72 26.76	28.17 28.11 27.98	29.19 29.13	29.04 29.01 29.32	25.09	11.37 11.37	6.59 6.69	7.21 7.36	7.39 7.21
10	25.95 25.80	25.32 25.21	26.02 26.14	26.76 26.71	28.08	28.90 28.93	29.32	21.24 19.24	11.17 9.94	6.71 6.80	7.37 7.29	7.20 7.12
11 12	25.75 25.97	25.21 25.20	25.92 26.04	26.72 26.86	28.16 28.23	28.87 28.92	29.28 29.35	17.73 16.39	8.64 7.83	6.77 6.83	7.24 7.33	7.02 7.07
13 14	25.98 25.77	25.50 25.71	26.01 25.95	26.98 26.94	28.23 28.05	29.07 29.13	29.35	15.60 15.46	7.21 6.82	6.99 7.14	7.37	7.26 7.26
15	25.68	25.70	25.96	26.81	28.11	29.01	29.26	14.77	6.44	7.17	7.28	7.01
16 17	25.74 25.60	25.29 25.41	25.99 26.23	26.89 27.07	28.34 28.30	28.95 28.95	29.36 29.33	14.14	6.27 6.27	7.22 7.22	7.23 7.27	7.14 7.06
18 19	25.14 25.12	25.68 25.66	26.17 26.15	27.22 27.34	28.61 28.60	28.82 28.59	29.27 29.27		6.30 6.30	7.17 7.19	7.61 7.63	7.14 7.17
20	24.90	25.56	26.22	27.41	28.67	28.63	29.14		6.33	7.19	7.56	7.27
21 22	24.72 24.74	25.86 25.92	26.41 26.47	27.41	28.50 28.57	28.52 28.78	29.40		6.36 6.29	7.16 7.17	7.51 7.51	7.30 7.09
23 24	24.79 24.87	25.88 25.74	26.37 26.22	27.39 27.52	28.76 28.69	28.83 28.65	29.25		6.04 5.94	7.12 7.16	7.48	6.99 6.99
25 26	24.84	25.74 25.45	26.38 26.39	27.51 27.38	28.55 28.76	28.96 29.01	29.16 29.17	11.63	5.78 5.73	7.15 7.14	7.40 7.41	6.84 6.70
27 28	24.56 24.81	25.50 25.75	26.48 26.48	27.61 27.83	29.00 29.01	29.16 29.18	29.10	11.62 11.67	5.82 5.95	7.20 7.38	7.36 7.36	6.69 6.69
29 30	24.94 24.96	25.73 25.84 25.72	26.58 26.70	27.83 27.65		29.17 29.09	29.07 28.98	11.65 11.56	6.08	7.35 7.47	7.28 7.34	6.63 6.77
31	24.98		26.73	27.55		29.02		11.43		7.51	7.34	
LOW	26.68	25.92	26.73	27.83	29.01	29.19	29.40	28.91	11.40	7.51	7.63	7.39
	WATER	LEVEL, IN	FEET BELC	W OR ABC	OVE (+) LAI	ND-SURFACE AILY LOWES			R OCTOBER	1995 TO S	SEPTEMBER	1996
DAY	WATER	LEVEL, IN	FEET BELC	OW OR ABC					R OCTOBER JUN	1995 TO S	SEPTEMBER AUG	1996 SEP
					Dž	AILY LOWES	T VALUES					
DAY 1	OCT 6.78	NOV 6.17	DEC 5.65	JAN 6.02	D2 FEB 6.25	AILY LOWES MAR 5.88	T VALUES APR 4.11	MAY 1.60	JUN	JUL +7.88	AUG +6.84	SEP +6.17
DAY 1 2 3 4 5	OCT 6.78 6.79 6.75 6.63 6.79	NOV 6.17 6.18 6.17 6.13 5.85	DEC 5.65 5.77 5.97 5.78 5.88	JAN 6.02 6.02 5.65 6.06 6.07	FEB 6.25 6.25 6.28 6.23 6.23	MAR 5.88 6.03 6.01 6.02 6.22	T VALUES APR 4.11 3.85 4.23 4.34 4.34	MAY 1.60 1.53 1.58 1.66 1.67	JUN e+9.77 +9.68	JUL +7.88 +7.84 +7.82 +7.84 +7.72	AUG +6.84 +6.89 +7.03	SEP +6.17 +6.09 +5.86 +5.89 +6.08
DAY 1 2 3 4 5	OCT 6.78 6.79 6.75 6.63 6.79 6.78	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03	FEB 6.25 6.25 6.28 6.23 6.20 6.08 5.96	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92	MAY 1.60 1.53 1.58 1.66 1.67	JUN e+9.77 +9.68 +6.19 +5.99	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +5.89
DAY 1 2 3 4 5 6 7 8 9	OCT 6.78 6.79 6.63 6.79 6.78 6.54 6.51 6.48	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.92 3.92	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.36	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.64 +5.66 +5.63	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.08
DAY 1 2 3 4 5 6 7 8 9 10	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.48	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.92 3.78	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72	JUL +7.88 +7.84 +7.82 +7.72 +7.57 +7.56 +7.45 +7.36 +7.46	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82	SEP +6.17 +6.09 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98
DAY 1 2 3 4 5 6 7 8 9 10 11 12	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.48 6.43 6.51	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95	FEB 6.25 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.79 3.78	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55	JUN e+9.77 +9.68 +6.19 +5.99 +5.02 +5.72 +5.72	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.36 +7.46 +7.30 +7.27	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.66 +5.63 +5.63 +5.94 +6.15 +6.24	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +5.89 +5.89 +5.98
DAY 1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.51 6.61	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.04	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.93 5.76 5.95	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 6.05 6.04 6.00 5.76 5.83	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.78 3.81	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95	JUN e+9.77 +9.68 +6.19 +5.99 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.36 +7.46 +7.27 +7.26 +7.26 +7.26	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.66 +5.663 +5.63 +5.94 +6.15 +6.24 +6.08	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.32
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0CT 6.78 6.79 6.75 6.63 6.79 6.54 6.51 6.48 6.48 6.43 6.51 6.61 6.61 6.61	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 6.00 6.01	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.93 5.76 5.95	6.25 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.001 5.78 5.57 4.89	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.79 3.78 3.78 3.81 3.75	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95 .54 .53	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.20 +7.20 +7.26 +7.26 +7.28	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.04 +6.13	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.32 +6.27
DAY 1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.48 6.43 6.51 6.61 6.61 6.64 6.42 6.48	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81 6.00	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.93 5.76 5.95 5.90	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.78 3.78 3.78	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.88	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.46 +7.26 +7.26 +7.28 +7.28	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.13	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.26 +6.32
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.51 6.61 6.61 6.48	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.93 5.95 5.93 5.76 5.95 5.90	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 8.57 4.89 4.30 4.23 4.39 4.444	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.75 3.34 2.63 2.13	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36 .36 .33	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.88	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.20 +7.27 +7.26 +7.28 +7.20 +7.28	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.64 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.04 +6.13	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.27
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.61 6.61 6.64 6.42 6.48 6.45 6.69 6.66	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.96 5.98 5.86 6.04 6.09 6.06	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81 6.00 5.98 5.99 6.00	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.95 5.95 5.97 6.98 6.02 5.71 5.95	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04 5.91 5.82 5.57 5.48 5.49	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.001 5.78 5.57 4.89 4.30 4.23 4.39	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.79 3.78 3.78 3.75 3.34 2.63 2.13 2.07	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .53 .49 .36 .36	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.88 +8.89 +8.89 +8.88	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.27 +7.26 +7.26 +7.26 +7.28 +7.28 +7.28	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.13	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.27 +6.26 +5.25 +5.26 +5.54 +5.68
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	0CT 6.78 6.79 6.75 6.63 6.79 6.54 6.51 6.48 6.48 6.43 6.51 6.61 6.61 6.48 6.42 6.48 6.42 6.48 6.42 6.48 6.42 6.49 6.66	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.96 5.98 6.04 6.09 6.06 5.99 6.06 5.99	DEC 5.65 5.77 5.97 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.81 6.00 5.98 5.90 5.78	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.95 5.95 5.95 5.95 5.95	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04 5.91 5.82 5.57 5.48 5.49 5.67 5.66 5.73	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23 4.39 4.44 4.40	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.78 3.78 3.78	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.44 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36 .33 .42 .42 .42 .33 .41	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.72 +5.73 +5.42 +8.85 +8.77 +8.84 +8.88 +8.89 +8.80 +8.67 +8.67	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.26 +7.26 +7.26 +7.26 +7.28 +7.28 +7.09 +7.08 +7.09 +7.08 +6.99 +6.99	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.13 +6.17 +6.25 +6.13 +6.18	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.26 +5.54 +5.64 +5.64 +5.64
DAY 1 2 3 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.51 6.61 6.61 6.48 6.42 6.48 6.45 6.69 6.66	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.96 5.98 5.86 6.04 6.09	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.82 5.81 6.00 5.98 5.90 5.78	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.98 5.95 5.95 5.95 5.93 5.76 6.02 5.79 5.99 5.56 6.02 5.71	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 6.05 6.04 6.00 5.76 5.83 6.04 5.91 5.82 5.57 5.48 5.49 5.67	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23 4.39 4.44 4.40 4.22 4.18	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.75 3.34 2.63 2.13 2.07 2.09 2.09	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.55 1.42 1.16 .95 .53 .49 .36 .36 .36 .36 .33 .42 .42	JUN e+9.77 +9.68 +6.19 +5.99 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.89 +8.89 +8.89 +8.89 +8.80 +8.80	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.36 +7.46 +7.27 +7.26 +7.28 +7.28 +7.08 +7.08 +7.08 +6.99	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.66 +5.663 +5.62 +6.15 +6.24 +6.08 +6.13 +6.17 +6.25 +6.13 +6.18 +6.08	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.27 +6.26 +5.26 +5.54 +5.68
DAY 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	0CT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.61 6.61 6.61 6.64 6.42 6.48 6.45 6.69 6.66 6.34 6.49 6.48 6.49 6.48 6.41 6.33	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.96 5.98 6.04 6.09 6.06 5.90 6.06 5.90 5.93 5.82 5.79	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81 6.00 6.00 5.98 5.90 5.78 6.00 6.00 5.89 5.89 5.89	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.95 5.95 5.95 5.95 5.90 5.56 5.98 6.02 5.72 5.71 5.99 5.99 6.01	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04 5.91 5.82 5.57 5.48 5.49 5.67 5.66 5.73 5.79 6.01	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23 4.44 4.40 4.22 4.18 4.01 4.30 4.30 4.30 4.18	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.78 3.2.07 2.09 2.09 2.09 2.09 1.74 1.83	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36 .33 .42 .42 .33 .41 +.08 +1.64	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.42 +8.87 +8.84 +8.89 +8.80 +8.80 +8.61 +8.61 +8.46 +8.42	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.26 +7.26 +7.26 +7.28 +7.28 +7.09 +7.08 +7.08 +6.90 +6.94 +6.81 +6.86	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.08 +6.13 +6.17 +6.25 +6.18 +6.08 +6.01 +6.18 +6.08 +6.01 +6.08	SEP +6.17 +6.09 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.027 +6.32 +6.27 +6.32 +6.27 +6.36 +5.46 +5.68 +5.64 +5.68
DAY 1 2 3 4 4 5 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 5 26 27 28	0CT 6.78 6.79 6.75 6.63 6.79 6.54 6.51 6.48 6.48 6.43 6.51 6.61 6.61 6.48 6.42 6.48 6.42 6.48 6.42 6.48 6.43 6.51 6.61 6.48 6.42 6.48 6.49 6.66 6.34 6.49 6.46 6.49 6.66 6.34 6.49 6.49 6.40 6.40 6.41 6.33	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.98 5.86 6.04 6.09 6.09 6.93 5.82 5.79 5.81	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.82 5.82 6.00 5.98 5.90 5.78 6.00 6.00 5.89 5.90 5.78	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.95 5.95 5.95 5.95 5.96 6.02 5.72 5.71 5.95 5.99 6.01 6.08 6.01	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.74 6.05 6.04 6.00 5.76 5.76 5.82 5.57 5.48 5.49 5.67 5.73 5.79 6.01 6.01 6.01 6.01 6.23 6.31	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23 4.39 4.44 4.40 4.22 4.18 4.01 4.30 4.30 4.18 4.16	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.78 3.78 3.78	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.45 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36 .36 .33 .42 .42 .42 .42 .42 .42 .41 .41 .41 .41 .64 +2.13 +2.24	JUN e+9.77 +9.68 +6.19 +5.99 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.89 +8.89 +8.80 +8.61 +8.61 +8.61 +8.46 +8.42 +8.38 +8.17	JUL +7.88 +7.84 +7.82 +7.84 +7.72 +7.57 +7.56 +7.45 +7.36 +7.46 +7.27 +7.26 +7.28 +7.28 +7.20 +7.09 +7.09 +7.08 +7.08 +6.94 +6.90 +6.81 +6.80 +6.80 +6.80 +6.80	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.66 +5.63 +5.82 +5.94 +6.15 +6.16 +6.13 +6.17 +6.25 +6.18 +6.08 +6.18 +6.18 +6.08 +6.18 +6.18	SEP +6.17 +6.09 +5.89 +6.08 +5.89 +6.03 +5.89 +6.07 +5.98 +5.95 +6.00 +6.17 +5.98 +5.95 +6.06 +5.26 +5.26 +5.26 +5.26 +5.68 +5.64 +5.61 +5.62 +5.62 +5.62 +5.62
DAY 1 2 3 4 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	OCT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.51 6.61 6.61 6.62 6.64 6.49 6.48 6.49 6.48 6.49 6.48 6.49 6.48 6.49 6.49 6.48 6.41 6.33	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.00 6.01 5.96 5.98 5.86 6.04 6.09 6.06 5.99 5.82 5.79 5.82 5.79 5.81 5.64	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81 6.00 5.98 5.98 5.98 5.98 5.98 5.98 5.98 5.98	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.97 5.95 5.97 5.99 5.99 6.01 6.08 6.01 6.17 6.20	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 6.00 5.76 5.83 6.04 5.91 5.82 5.57 5.48 5.49 5.67 6.73 6.73 6.73 6.73 6.73 6.73 6.73 6	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 4.89 4.30 4.23 4.34 4.40 4.22 4.18 4.01 4.30 4.30 4.16 4.16 4.16 4.03 4.16	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.75 3.34 2.63 2.07 2.09 2.00 1.74 1.83 1.84 1.99 1.63	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .95 .54 .53 .49 .36 .36 .36 .36 .33 .42 .41 +.08 +1.64 +2.13 +2.24 e+6.20	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.73 +5.42 +8.25 +8.77 +8.84 +8.89 +8.89 +8.80 +8.61 +8.61 +8.61 +8.61 +8.46 +8.42 +8.38 +8.17 +7.94 +7.94	JUL +7.88 +7.84 +7.82 +7.56 +7.56 +7.45 +7.36 +7.26 +7.26 +7.28 +7.28 +7.28 +7.29 +6.90 +6.81 +6.80 +6.81 +6.80 +6.75 +6.75	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.66 +5.63 +5.82 +5.94 +6.15 +6.24 +6.13 +6.17 +6.25 +6.16 +6.18 +6.08 +6.16 +6.18 +6.08 +6.15 +6.16	SEP +6.17 +6.09 +5.86 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.00 +6.17 +6.32 +6.27 +6.26 +5.26 +5.54 +5.68 +5.64 +5.61 +5.62 +5.54 +5.61 +5.62 +5.54 +5.61
DAY 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	0CT 6.78 6.79 6.75 6.63 6.79 6.78 6.54 6.51 6.48 6.43 6.61 6.61 6.61 6.64 6.42 6.48 6.45 6.69 6.66 6.34 6.49 6.49 6.48 6.41 6.33	NOV 6.17 6.18 6.17 6.13 5.85 6.05 6.18 6.14 5.77 6.14 6.14 5.97 6.04 6.00 6.01 5.96 6.04 6.09 6.06 5.98 5.86 6.04 6.09 6.593 5.82 5.79 5.93 5.81 5.64	DEC 5.65 5.77 5.97 5.78 5.88 5.83 5.81 5.98 5.98 5.93 5.74 5.62 5.59 5.82 5.82 5.81 6.00 6.00 5.98 5.90 5.78 6.00 6.00 5.89 5.89 5.89 5.95 5.89 5.95 5.89 5.95 5.80 5.73	JAN 6.02 6.02 5.65 6.06 6.07 6.08 6.03 5.92 5.98 5.95 5.95 5.95 5.95 5.95 5.90 5.56 5.98 6.01 6.08 6.01 6.01	FEB 6.25 6.28 6.23 6.20 6.08 5.96 5.97 5.74 6.05 6.04 5.91 5.83 6.04 5.91 5.82 5.67 5.48 5.49 5.67 5.66 5.73 6.01 6.01 6.23 6.31 6.25	MAR 5.88 6.03 6.01 6.02 6.22 6.36 6.51 6.50 6.34 6.17 6.15 6.01 5.78 5.57 4.89 4.30 4.23 4.44 4.40 4.22 4.18 4.01 4.30 4.30 4.18 4.16 4.16 4.03	T VALUES APR 4.11 3.85 4.23 4.34 4.34 4.12 3.92 3.92 3.78 3.78 3.78 3.78 3.78 3.207 2.09 2.09 2.09 2.09 1.74 1.83 1.83 1.84 1.99 1.99	MAY 1.60 1.53 1.58 1.66 1.67 1.54 1.49 1.44 1.55 1.55 1.42 1.16 .53 .49 .36 .33 .42 .41 +.08 +1.64 +2.13 +1.64 +2.24 e+6.20	JUN e+9.77 +9.68 +6.19 +5.99 +6.02 +5.92 +5.72 +5.73 +5.42 +8.84 +8.89 +8.80 +8.80 +8.80 +8.61 +8.61 +8.46 +8.42 +8.38 +8.17 +7.94	JUL +7.88 +7.84 +7.84 +7.72 +7.56 +7.45 +7.36 +7.46 +7.26 +7.26 +7.28 +7.28 +7.28 +7.09 +7.08 +7.09 +6.94 +6.94 +6.94 +6.94 +6.81 +6.86 +6.80 +6.80 +6.75	AUG +6.84 +6.89 +7.03 +7.00 +6.98 +5.84 +5.63 +5.82 +5.94 +6.15 +6.24 +6.03 +6.13 +6.17 +6.26 +6.13 +6.18 +6.08 +6.05 +6.16 +6.08 +5.84	SEP +6.17 +6.09 +5.89 +6.08 +5.89 +6.03 +6.17 +5.98 +5.95 +6.027 +6.32 +6.27 +6.32 +6.27 +6.36 +5.41 +5.68 +5.64 +5.56 +5.54 +5.68 +5.61 +5.62 +5.54 +5.62

e Estimated

128

SITE NUMBER 26—Continued

31

LOW

+16 59

+16.32

+16.13

+15 41

+15.40

+14 62

+14.60

+13.55

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR JUN AUG SEP MAY JUL +6.94 +6.99 +18.63 +5.40 +6.56 +6 09 +6.66 +7.69 +11.47 +18.81 +18.13 +17.72 +17.68 +5.25 +6.92 +6.38 +5.76 +6.64 +7.01 +7.60 +11.56 +19.04 +18.40 +18.18 +5.46 +6.53 +7.01 +6.92 +7.79 +19.21 +18.27 +17.71 +6.35 +6.48 +12.18 +18.14 +6.44 +5.60 +6.35 +8.29 +6.90 +6.49 +6.79 +12.93 +19.32 +18.27 +18.06 +17.52+5.54 +6.90 +6.62 +6.45 +6.45 +6.72 +8.29 +13.23 +19.64 +18.28 +18.05 5 +17.38 +13.37 +18.08 6 +7.79 +7.77 +7.93 +5.47 +6.69 +6.19 +6.67 +6.46 +7.18 +13.68 +19 84 +18 26 +18 15 +17.22 8 +5.53 +6.70 +6.73 +6.20 +6.72 +6.52 +6.47 +7.17 +13.56+19.93 +18.19 +18.45+17.10 +6.78 +5.40 +19.83 +18.15 +17.07 +6.43 +7.13 +13.60 +18.21 10 +5.41 +6.74 +6.48 +6.70 +6.45 +7.30 +8.02 +13.89 +19.87 +18.30 +18.12 +17.16 +20.03 +6.23 11 +5.67 +6.61 +6.48 +7.30 +8.03 +13.90 +18.20 +18.18 +6.18 +8.19 +20.03 +18.15 +18.10 12 +5.54 +6.61 ___ +6.50 +14.04 ___ +6.56 +6.50 ___ 13 +5.54 +6.58 +6 08 +7.11 +8.39 +14 32 +20.00 +18 07 +18.13 +6.78 +7.10 +8.54 +20.00 +5.59 +5.86 +14.26 +18.00 +18.32 14 15 +5.59 +6.78 +5.86 +6.44 +6.46 +7.28 +8.42 +14.26 +20.03 +17.98 +18.35 16 +6.16 +5.64 +6.74 +6.50 +7.49 +8 43 +14 38 +17 96 +18.07 +6.68 +5.94 +6.74 +7.18 +8.84 +14.46 +19.48 +18.04 18 +5.49 +6.67 +5.98 +6 62 +6.68 +7.07 +9.44 +14.30 +19.38 +17.86 +18.15 ___ ___ +5.93 +6.06 +7.24 +18.03 19 +6.77 +6.64 +6.69 +9.98 +14.30+19.36 +17.82 +6.53 +6.83 +17.95 20 +5.68 +6.22 +6.80 +7.38 +10.35 +14.35 +19.31 +17.83 21 +5.57 +6.52 +6.18 +6.86 +6.80 +7.34 +10.64 +14.45 +19.26 +17.83 +18.03 +16.90 +5.60 +6.61 +6.10 +6.70 +6.61 +7.36 +10.61 +14.42 +19.24 +17.87 +18.00 +16.83 23 +5.61 +6.27 +5.90 +6.79 +6.60 +7.37 +10.61 +14.39 +19.11 +17.92 +17.98 +16.73 24 +5.61 +6.27 +5.92 +6.55 +6.57 +7.38 +10.68 +14.48 +18.92 +17.90 +18.07 +16.86 25 +5.79 +6.27 +6.00 +6.87 +7.38 +10.68 +18.79 +17.90 +17.97 +14.53 +16.93 +5.54 +6.01 +10.78 +18.79 +17.83 26 +6.19 +7.07 +7.57 +14.56 +18.00 +17.04 +7.23 +15.58 2.7 +5.55 +6.24 +6.27 +10.89 +18.87 +17.66 +17.98 +16.97 28 +5.92 +6.53 +6.06 ___ +7.07 +7.67 +11.26 +16.67 +18.79 +17.58 +18 06 +16.91 +6.45 29 +6.51 +6.49 +6.05 ---+7.58 +11.28+17.44 +18.77+17.77+18.07+16.84 +6.57 +17.89 30 +6.47 +5.94 +6.70 +7.61 +11.30 +18.72 +18.05 +18.01 +16.76 ___ 31 +6.88 +6.00 +6.81 +7.86 +18.31 +18.14 +18.08 +5.25 +5.86 +6.72 +7.60 +18.72 +17.58 +17.95 LOW +6.19 +5.76 +6.44 +11.47 +16.73 WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP +16 80 +16.42 +16 24 +15 60 +14 60 +13.43 +13 09 +13 63 +14 14 +15 19 +16 00 +16.89 +16.34 +16.10 +15.47 +14.42 +13.41 +13.06 +13.60 +14.06 +15.32 +16.08 +13.49 +15.40 +16.06 +16.89 +16.10 +15.28 +14.43 +13.06 +13.68 +14.08 +15.25 +16.36 +16 88 +16 30 +16.02 +15 48 +14 58 +13 50 +13 23 +13.69 +14 22 +15 25 +15.32 +16 02 5 +16.74+16.24+16.01 +15.30+14.39+13.44+13.53+13.71+14.19 +15.38+15.37+15.956 +16.62 +16.34 +16.10 +15.21 +14.38 +13.45 +13.48 +13.68 +15.32 +15.52 +16.82 +16.70 +16 46 +16.35 +16.37 +15 27 +14 48 +13 28 +13.41 +13.32 +13 68 +14 27 +15 34 +15.61 +15-56 +15 86 +16.20 +15.32 +14.43 +13.16 +13.68 +14.41 +15.35 +16.03 +13.68 +16.62 +16.17 +16.06 +15.20 +14.24 +13.12+13.32+14.42 +15.42 +15.42 +16.09 10 +16.70 +16.23 +15.83 +15.15 +14.18 +12.86 +13.32 +13.71 +14.54 +15.43 +15.47 +15.97 11 +16.92 +16.34 +15.78 +15 18 +14.17 +12.76 +13.49 +13.80 +14.58 +15.43 +15 51 +16.68 +16.43 +16.43 +15.87 +15.93 +15.08 +15.12 +13.69 +13.46 +15.90 +15.96 12 +14.16 +13.24 +13.85 +14.45 +15.52 +15.52 13 +14.18 +13.06 +13.90 +14.45 +15.58 +15.54 +15.97 +13.07 +15.58 15 +16.32 +16.17 +16.02 +15.22 +14.37 +13.07 +13.40 +13.75 +14 45 +15.65 +15 81 +15.09 +13.69 +16.22 17 +16.59 +16.33 +16.13 +14.99 +14.18 +13.12 +13.39 +13.85 +14.62 ___ +15.57 +15.89 +15.97 +14.70 ---+13.98 +15.57 +16.49 +16.31 +14.84 +12.92 +13.35 +13.66 +15.89 18 +16.33 +15.78 +14.92 +13.96 +12.91 +13.32 +14.85 +15.46 20 +16.39 +16.38 +15.87 +14.84 +13.97 +12.93 +13.27 +13.71 +15.12 ---+15.40 +15.78 +16.36 21 +16.39 +16.04 +14.82 +14.04 +12.97 +13.26 +13.82 +15.13 +15.59 +15.76 +16.61 +16.75 +16.24 +16.26 +15.86 +15.96 +14.82 +14.70 +13.97 +13.80 +12.95 +12.97 +13.31 +13.46 +15.12 +15.22 +16.01 +16.16 +15.75 +15.85 2.2 +13.85 ------23 +13.85 +15.71 24 +16.30 +13.81 +13.13 +13.73 +15.38 +16.13 25 +16 33 +16.19 +15.61 +14 66 +14 18 +13 22 +13 59 +13.75 +15 42 ___ +16.12 +15 97 26 +16.45 +16.18 +15.53 +13.92 +13.25 +13.85 +16.24 +15.72 +16.35 +15.62 +13.83 27 +16.66 +14.67 +13.66 +13.19 +13.31 +15.34 ---+16.02 +15.67 ---+15.30 2.8 +16.55+16.21 +15.55+14.60 +13.55+13.18+13.38+13.71+15.96+15.80+13.10 +13.50 +15.96 29 +16.64 +16.13 +15.60 +14.60 +13.71 +15.27 +15.73 30 +16.68 +16.14 +15.40 +14.66 ---+13.06 +13.64 +13.79 +15.18 ---+16.06

+13 11

+12.76

+13.06

+14.06

+13 66

+13.60

+15.19

+16 00

+15.32

+15.49

SITE NUMBER FROM LOCATION MAP.—27.

COUNTY.—Meade.

LOCAL WELL NUMBER.—3N6E15ABB2.

SITE ID (STATION NUMBER).—441337103225002.

OTHER IDENTIFIER.—MD-94A and Piedmont Mdsn.

LOCATION.—Lat 44°13′35.5″, long 103°22′50.5″, in NW¹/4NW¹/4NE¹/4 sec. 15, T. 3 N, R. 6 E., Hydrologic Unit 10120111, 0.5 mi southeast of Piedmont. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 880 ft deep, with 810 ft of 5-in. steel casing; open hole from 810 to 880 ft.

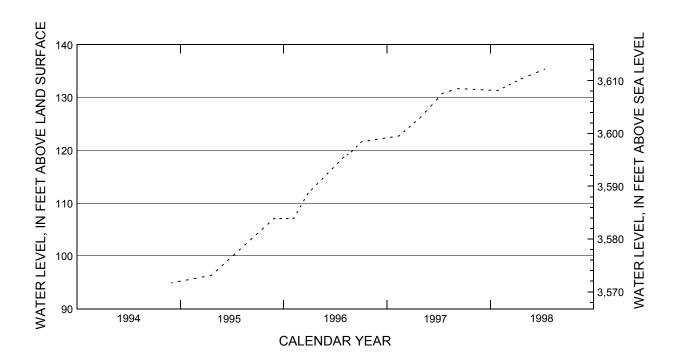
INSTRUMENTATION.—Electronic data logger with submersible transducer.

DATUM.—Elevation of land-surface datum is 3,476.8 ft above sea level. Measuring point: Base of gage 2.9 ft above land-surface datum since Sept. 11, 1996.

REMARKS.—Records poor. Gage readings at inspections used.

PERIOD OF RECORD.—November 1994 to September 1998.

EXTREMES.—Highest daily water level, 135.4 ft (estimated) above land-surface datum, July 14, 1998; lowest daily water level, 94.9 ft (estimated) above land-surface datum, Nov. 30, 1994.



SITE NUMBER 27—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 2 ------------------------___ ___ ---___ ___ ___ ---___ ---___ 5 ---------------------6 ------------------------------------8 ---___ ___ ---___ ------___ ___ ---------------------------------10 ---11 ___ ___ ---------------------------12 ---------13 --15 ------------------___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 17 ___ 18 ---------------------------___ ___ ___ 2.0 e + 96.321 ------___ ---------------------------------22 23 ---------------------------------___ 25 26 27 ------------------------------___ ---28 29 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------------30 e + 94.9LOW +94.90 ---------___ +96.30 ------------WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 2 ___ ------------___ ---___ ------------___ ___ ---___ ___ ___ ___ 5 6 7 ------------ e+107.1 ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------ e+112.6 10 ___ ___ ___ 11 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------+115.94 12 14 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------15 16 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------17 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 19 ___ ___ ------------------___ ---------20 21 22 ---___ ___ ---------23 2.4 --25 --- e+111.7 26 ------------------------------27 --------- e+107.1 29 ------------------------

--- +107.10 +111.70 +112.60

--- +107.10

30

31 LOW --- e+118.6 e+119.8

--- +118.60 +119.80 +115.94

e Estimated

		WAIER LEVE.	L, IN FEE	I ABOVE I		LY LOWEST	VALUES	OCTOBE	K 1990 I) SEPIEMBE	K 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	e+121.6											
4												
5												
6												
7 8												
9												
10											€	e+131.7
11												
12 13				e	+122.7							
14												
15												
16									∈	+130.8		
17												
18 19												
20												
21												
22												
23 24												
25												
26												
27												
28							106.0					
29 30						e+	120.2					
31												
LOW	+121.60				+122.70	+	126.20			+130.80		+131.70
		WATER LEVE	L, IN FEE	T ABOVE 1			WATER YEAR VALUES	OCTOBE	R 1997 T	O SEPTEMBE	R 1998	
DAY	OCT	WATER LEVE	L, IN FEE	T ABOVE I		CE DATUM, LY LOWEST MAR		OCTOBE MAY	R 1997 TO	O SEPTEMBEI JUL	R 1998 AUG	SEP
		NOV	DEC	JAN	DAI FEB	LY LOWEST	VALUES APR	MAY	JUN	JUL	AUG	
DAY 1 2	OCT 				DAI	LY LOWEST	VALUES					SEP
1 2 3	 	NOV 	DEC 	JAN 	DAI FEB 	LY LOWEST MAR	VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4		NOV 	DEC 	JAN 	DAI FEB 	LY LOWEST MAR	VALUES APR	MAY 	JUN 	JUL 	AUG	
1 2 3 4 5		NOV	DEC	JAN 	DAI FEB 	MAR	APR	MAY	JUN 	JUL 	AUG	
1 2 3 4	 	NOV	DEC	JAN 	DAI FEB 	MAR	VALUES APR	MAY 	JUN 	JUL 	AUG	
1 2 3 4 5 6 7 8	 	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	====
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	DAI FEB	LY LOWEST MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	
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 25 26 27		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAI FEB	MAR	VALUES APR	MAY	JUN	JUL	AUG	

e Estimated

SITE NUMBER FROM LOCATION MAP.—28.

COUNTY.—Meade.

LOCAL WELL NUMBER.—3N6E15ABB.

SITE ID (STATION NUMBER).—441337103225001.

OTHER IDENTIFIER.—MD-84A and Piedmont Mnls.

LOCATION.—Lat 44°13′35.6″, long 103°22′50.7″, in NW¹/4NW¹/4NE¹/4 sec. 15, T. 3 N, R. 6 E., Hydrologic Unit 10120111, 0.5 mi southeast of Piedmont. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 440 ft deep, with 409 ft of 5-in. steel casing; open hole from 409 to 440 ft.

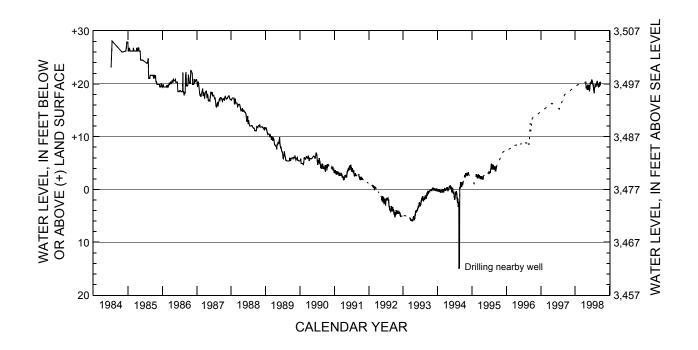
INSTRUMENTATION.—Electronic data logger with submersible transducer (pressure transducer used from June 1990 to Feb. 11, 1992) -- 60-minute interval. Prior to June 1990, circular-chart pressure recorder.

DATUM.—Elevation of land-surface datum is 3,477.0 ft above sea level. Measuring point: Top of 3/4-in. nipple 1.50 ft above land-surface datum for pressure measurements, 1.8 ft since Oct. 12, 1995; top of concrete pad at land-surface datum for water-level measurements.

REMARKS.—Records good. Unusual fluctuations in water level during August 1994 was caused by drilling adjacent observation well MD-94A.

PERIOD OF RECORD.—July 1984 to September 1998.

EXTREMES.—Highest daily water level, 28.1 ft above land-surface datum, July 17, 1984; lowest daily water level, 14.96 ft below land-surface datum, Aug. 17, 1994.



SITE NUMBER 28—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP +3.05 +2.08 +2.51 +2.08 +3.18 +4.04 +4.24 +4.22 +4.04 2 ___ +2.81 ___ ------+2.26 +2.35 +2.40 ___ +3.34 +4.54 ___ ___ +2.58 ---+2.77 ---+2.01 ---+4.38 +2.56 +3.32 +3.94 +2.40 +1.96 +3.33 +4.48 5 +2.77 ___ +2.35 +2.40 ___ +3.23 +4.61 +3.97 +2.63 +2.17 +2.26 ___ +2.86 ___ ___ ___ +2.08 +2.26 ___ ___ +3.16 +4.43 +3.41 +2.21 8 ---+2.77 ---------+2.24 ------+3.25 +4.01 +3.53 +3.55 +2.81 +2.03 +3.25 +2.65 +3.90 10 +3.05 ---+2.81 +2.01 ---+3.28 +4.01 +3.51 +2.81 +3.39 +3.76 +3.11 +2.12 ---------+3.18 ------+2.49 +2.33 ---+3.23 +3.83 +3.60 ___ ___ ___ ___ 13 +2 86 +2.40 +2.33 +3.21 +4 04 +3.92 +2.33 +2.51 +3.09 +4.04 +3.90 +2.61 14 15 +2.63 +2.61 +2.35 +2.35 +3.18 +4.48 +4.38 +2.81 16 +2.45 +2.38 +2.17 +3.32 +4.20 +4.66 17 +2.42 ___ ___ ___ +2.88 +2.33 +2.17 ---+3.32 +4.13 ---+2.45 ---18 +2.63 ------+2.61 +2.26 ---+3.55 +4.08 +4.06 +2.63 +2.24 19 +2.61 +3.83 +3.94 +4.11 20 +2.65 +2.54 +2.54 +2.40 +3.85 +4.04 +4.41 21 +2.72 ---+2.75 +2.72 +2.12 +3.90 +3.97 22 23 +2.72 ------+2.65 +2.08 +4.01 +4.01 +2.93 +2.61 ___ +2.47 +2.38 +2.12 ___ ___ +4.15 +4.11 ___ +2.95 ---24 ---------+2.35 +1.08 +2.49 +2.54 +2.08 +4.31 +4.24 25 +2.49 +2.68 +2.15 +4.50 +2.79 +3.23 +2.35 +4.73 26 +2.17 +2.12 +3.94 ---27 +3.05 +3.07 +2.17 +2.10 +2.19 +3.19 +4.89 +3.97 28 29 +2.91 +2.84 ___ ___ +2.17 +2.10 +2.24 ___ +2.99 +4.59 +4.11 ___ ------------+2.15 +3.03 +4.24 30 +2.65 +2.33 +2.12 +3.02 +4.01 31 +2.70 ___ ___ ___ ___ +2.40 ___ +3.81 +4.27 ___ +2.08 LOW +2.35 +2.61 +1.08 +2.17 +1.96 +2.08 +2.99 +3.02 +3.76 +3.41 WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES OCT NOV DEC FEB JUN JUL AUG DAY JAN MAR APR MAY SEP 1 ___ ___ ___ ___ ___ ___ ___ --------------------------------e+9.765 6 7 e+7.70---8 ___ ---------------------------9 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 10 -----------------e+8.39---------------11 e+12.53___ ___ ___ ------___ ---------------12 13 ___ ___ ---___ ---___ ___ ---___ ___ ___ ---___ 14 ------___ ---___ ---___ ------___ 15 16 ___ ___ ___ ___ ___ --------------------------e+11.0317 ------19 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------2.0 ------------------------21 ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 22 ---23 ------------___ ___ ___ 25 ------------------___ ------26 ------2.7 ------------------------------28 --e+7.1230 ___ ___ ___ ___ ___ ___ ___ ___ e+8.85 e+8.51___ 31 +7.70 T.OW ___ +7.12 ___ ___ ___ +8.39 ___ ___ +8.85 +8.51 +9.76

134

e Estimated

SITE NUMBER 28—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	e+13.5											
3												
4												
5												
6											-,	
7											-,	
8												
9												
10												e+17.9
11												
12												
13												
14												
15												
16										e+15.2		
17												
18												
19												
20												
0.1												
21												
22												
23												
24 25												
25												
26												
26 27												
28												
28 29							e+16.3					
30							e+10.3					
31												
31												
LOW	+13.50						+16.30			+15.20		+17.90

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								+19.43	+19.19	+20.28	+19.89	+19.70
2								+19.13	+18.66	+20.30	+19.82	+20.12
3								+19.24	+18.57	+20.23	+19.70	+19.66
4								+19.31	+19.01	+20.39	+19.56	+19.47
5								+19.22	+19.01	+20.58	+19.45	+19.63
6								+19.10	+19.29	+20.07	+19.73	+19.40
								+19.10		+20.07	+19.73	+19.40
7								+18.87	+19.45 +19.54	+19.91	+19.75	+19.40
8												
9								+18.94	+19.75	+19.89	+19.68	+20.00
10								+19.33	+20.05	+19.98	+19.45	+19.84
11								+19.43	+20.14	+19.96	+19.52	+19.52
12								+19.59	+20.12	+19.73	+19.70	+19.59
13								+19.84	+20.19	+19.63	+20.07	+19.56
14								+19.77	+20.05	+19.66	+20.12	+19.45
15								+19.52	+20.03	+19.31	+20.16	+19.59
16								+19.29	+20.14	+19.06	+20.07	+19.98
17								+19.59	+20.03	+18.85	+19.77	+20.19
18								+19.10	+20.07	+18.80	+19.79	+20.19
19								+18.83	+19.98	+18.66	+20.09	+19.98
20								+19.01	+20.19	+18.66	+20.14	+19.75
20								110.01	120.10	110.00	.20.11	110.75
21								+19.13	+20.09	+18.41	+20.30	+19.68
22								+19.13	+20.21	+18.23	+20.53	+19.68
23							+20.35	+19.38	+20.51	+18.39	+20.42	+20.09
24							+20.35	+19.40	+20.65	+18.71	+20.42	+20.21
25							+19.82	+19.43	+20.63	+19.13	+20.37	+20.37
26							+19.47	+19.59	+20.81	+19.22	+20.53	+20.26
27				e+19.8			+19.29	+19.79	+20.56	+19.22	+20.21	+19.98
28				e+19.8			+19.31	+19.38	+20.28	+19.40	+20.09	+19.96
29							+19.33	+19.15	+20.16	+19.29	+19.93	+20.05
30							+19.52	+19.24	+20.12	+19.40	+20.09	+20.05
31								+19.24		+19.40	+19.86	
31								·12.00		·12.03	·12.00	
LOW				+19.80			+19.29	+18.83	+18.57	+18.23	+19.45	+19.40

e Estimated

SITE NUMBER FROM LOCATION MAP.—29.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N7E34BCCA.

SITE ID (STATION NUMBER).—440528103161001.

OTHER IDENTIFIERS.—PE-64A and Cement Plant.

LOCATION.—Lat 44°05′30.9″, long 103°16′14.2″, in NE¹/4SW¹/4SW¹/4NW¹/4 sec. 34, T. 2 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 400 ft deep with 228 ft of 3-in. steel casing, and 400 ft of 1.25-in. steel casing; perforated casing from 242 to 400 ft.

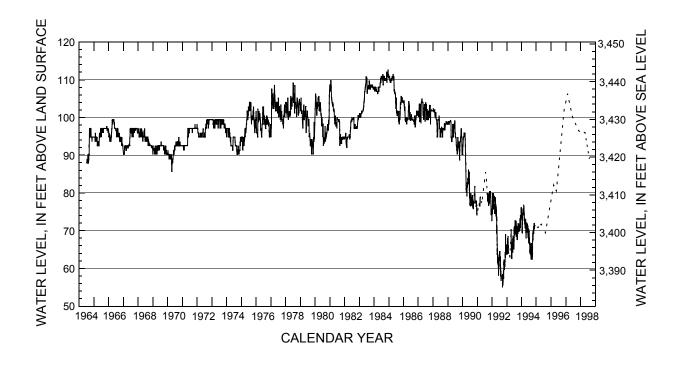
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval. Prior to October 1991, circular-chart pressure recorder.

DATUM.—Elevation of land-surface datum is 3,330.5 ft above sea level. Measuring point: Base of gage, 2.5 ft above land-surface datum until Apr. 3, 1990, 2.2 ft above land-surface datum Apr. 3, 1990, to Sept. 16, 1991. Base of gage, 3.2 ft above land-surface datum from Sept. 16, 1991, to present.

REMARKS.—Records poor because of numerous problems with well, instrumentation, and amount of fluid used for antifreeze. Large errors are possible for numerous periods. Water levels may be affected by pumping of nearby wells, especially since 1989.

PERIOD OF RECORD.—June 1964 to September 1998.

EXTREMES.—Highest daily water level, 112.7 ft above land-surface datum, Dec. 15, 1984; lowest daily water level, 54.95 ft above land-surface datum, Sept. 17, 1992. Note: Extreme values published by Winter (1994) are in error.



SITE NUMBER 29—Continued

DATIV	I OWECE VA		EL, IN FEE	T ABOVE	LAND-SURF	FACE DATUM,	WATER Y	EAR OCTOBE	R 1994 TO	SEPTEME	BER 1995	
DAILY	LOWEST VA	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+64.17	+69.99										
2	+65.67	e+70.80										
3	+67.33 +67.57	+71.21										
4 5	+67.80	+70.29 e+70.29						e+71.72				
5	+07.00	E+70.29										
6	+68.03	+70.98										
7	+68.33	+71.26										
8	+68.44	+71.03										
9	+69.36	+70.86										
10	+69.30	+70.91										
11	+68.10	+71.03										
12	+67.87	+71.37										
13	+67.80	+72.02										
14	+67.40	+70.40										
15	+68.03	e+71.20			e+70.80							
16	+68.95	+71.90									e+69.40	
17	+69.87	+71.37										
18	+69.99											
19 20	+69.99											
20	+69.76											
21	+69.13											
22	+70.10											
23	+69.71											
24	+69.36											
25	+69.36											
26	+70.17											
27	+69.30											
28	+70.06											
29	+69.99											
30	+70.56											
31	+70.40											
LOW	+64.17	+69.99			+70.80			+71.72			+69.40	
		WATER LEVE	EL, IN FEE	T ABOVE		FACE DATUM, AILY LOWES			R 1995 TO	SEPTEME	3ER 1996	
DAY	OCT	WATER LEVE	EL, IN FEE	T ABOVE JAN					R 1995 TO JUN	SEPTEME JUL	BER 1996 AUG	SEP
DAY 1	OCT				D.	AILY LOWES	T VALUES					SEP
		NOV	DEC	JAN	D. FEB	AILY LOWES	T VALUES APR	MAY	JUN	JUL	AUG	
1		NOV	DEC	JAN	D. FEB 	AILY LOWES' MAR	T VALUES APR	MAY	JUN	JUL	AUG	
1 2		NOV 	DEC 	JAN 	D. FEB 	AILY LOWES' MAR	T VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3		NOV 	DEC 	JAN 	D. FEB 	AILY LOWES' MAR	T VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5		NOV	DEC 	JAN 	D. FEB 	MAR	T VALUES APR	MAY	JUN 	JUL 	AUG	
1 2 3 4 5		NOV	DEC	JAN	D. FEB	MAR e+82.1	T VALUES APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5 6 7	 	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5		NOV	DEC	JAN	D. FEB	MAR e+82.1	T VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5		NOV	DEC	JAN	D. FEB	MAR e+82.1	T VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	D. FEB	MAR MAR e+82.1	T VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ====	NOV	DEC	JAN	D. FEB	MAR e+82.1	T VALUES APR	MAY	JUN	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	======================================	NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	D. FEB	e+82.1	T VALUES APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	======================================	NOV	DEC	JAN	D. FEB	MAR e+82.1	APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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		NOV	DEC	JAN	D. FEB	e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D. FEB	e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC	JAN	D. FEB	AILY LOWES' MAR e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D. FEB	e+82.1	T VALUES APR	MAY e+80.5	JUN	JUL	AUG	

e Estimated

SITE NUMBER 29—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ------------------------___ ------------___ ___ ___ ---------------------___ ---___ ---___ ---___ 5 ___ ___ ___ ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 8 ------------------------------------___ 10 ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------------___ ___ --- e+106 3 ___ ___ ___ ___ ___ ___ 13 14 15 ------16 ___ ___ ___ ------------ e+100.1 18 ---------------------19 20 --- e+101.90 ---------------------------___ 23 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 25 26 ___ ___ ------28 29 ---___ ------___ --31 ---------------------------------LOW +101.90 +100.10 +106.30 WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT DEC JUL NOV JAN FEB MAR APR MAY JUN AUG SEP ___ ___ ___ 3 ___ ---___ ------___ ------___ ---------___ ---___ ---___ ___ ___ ---___ ___ ---___ 5 6 8 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------------------10 e+89.0 11 ---------------------------------------13 ---------___ ---14 ---15 16 ---------------------___ ------___ ___ ---------------------------19 20 e+96.4 21 ------------------___ e+96.0 ------___ ___ 24 ___ ___ ___ ___ ___ ___ ___ ___ ___ 25 ------------------------------------26 ------------------------------------___ ------___ ------------___ ___ ---___ ___ ------___ ------___ ___ 29 ------___ ---___ ___ ___ 30 ------31 LOW +96.40 ___ ___ +96.00 ---+89.00 ---___

e Estimated

SITE NUMBER FROM LOCATION MAP.—30.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N7E32ABBC2.

SITE ID (STATION NUMBER).—440544103180002.

OTHER IDENTIFIERS.—PE-89C and City Quarry Mdsn.

LOCATION.—Lat 44°05′43.6″, long 103°18′05.2″, in SW¹/4NW¹/4NW¹/4NE¹/4 sec. 32, T. 2 N., R. 7 E, Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 825 ft deep with 801 ft of 6 3/8-in. steel casing; open hole from 801 to 825 ft.

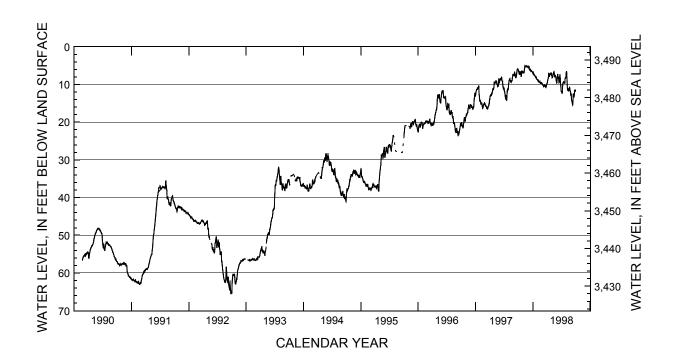
INSTRUMENTATION.—Electronic data logger with float-driven shaft encoder -- 60-minute interval. Prior to July 1992, digital water-level recorder.

DATUM.—Elevation of land-surface datum is 3,493.5 ft above sea level. Measuring point: Top of steel casing, 1.80 ft above land-surface datum.

REMARKS.—Records good. Water levels affected by pumping of nearby well.

PERIOD OF RECORD.—February 1990 to September 1998.

EXTREMES.—Highest daily water level, 5.05 ft below land-surface datum, Nov. 12, 1997; lowest daily water level, 65.60 ft below land-surface datum, Sept. 26, 1992.



					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.58	33.91	33.82	32.70	36.40	37.62	36.95	34.25	27.40	26.08		
2	39.03	33.90	33.41	32.35	36.93	37.62	37.08	33.50	28.60	25.86		
3 4	38.57 38.14	34.01 33.97	33.27 33.38	32.38 33.09	36.96 36.96	37.49 37.49	37.05 37.06	33.09 32.90	29.19 29.47	26.13 26.20		
5	37.57	34.09	33.30	33.60	36.66	37.49	36.84	32.55	28.89	26.20		
	37.72	33.90										
6 7	38.21	34.10	33.54 33.53	34.26 34.52	36.68 36.64	38.19 38.27	36.94 37.40	32.04 31.60	28.63 28.36	26.34 26.04		
8	38.21	34.10	33.86	34.52	37.01	37.63	36.96	31.55	28.30	26.47		
9	37.92	34.13	33.93	34.79	37.01	37.59	37.41	30.75	27.88	26.65		
10	37.64	33.66	34.03	34.69	36.39	37.66	37.52	30.15	27.48	26.89		
11	37.84	33.70	33.98	34.46	36.84	37.65	36.98	29.38	26.94	27.13	e27.71	
12	37.70	33.13	34.04	35.10	36.98	37.45	37.01	28.61	26.68	27.40		
13	37.63	33.10	34.04	35.09	36.65	37.29	36.89	28.93	26.68	27.60		
14	37.56	33.43	34.16	34.99	36.60	37.32	36.86	28.95	26.90	27.68		
15	37.08	33.10	34.36	35.30	36.97	37.23	37.00	28.68	26.90	27.59		
16	37.11	32.73	34.44	35.59	37.08	37.34	36.78	28.57	27.59	27.07		
17	37.21	32.73	34.23	35.65	37.18	37.35	36.78	28.49	27.75	26.31		
18	36.87	33.50	33.97	35.98	37.47	36.46	36.60	28.40	27.70	26.28		
19	36.81	33.51	34.34	35.98	37.51	36.38	36.42	28.37	27.86	25.76		
20	36.11	33.23	34.38	35.83	38.02	36.73	37.12	28.55	28.22	25.44		
21	36.01	33.34	34.09	35.86	37.62	36.70	37.59	28.89	28.33	25.22		
22	35.69	33.56	34.67	35.55	37.73	36.59	37.98	29.61	28.10	25.13		e28.07
23	35.41	33.61	34.74	36.02	37.79	36.52	38.07	29.56	27.45	24.68		
24	35.51	33.62	34.06	36.03	37.72	36.51	38.14	28.91	26.69	24.21		
25	35.18	33.62	34.63	35.88	37.37	36.59	38.31	28.43	26.61	23.92		
26	35.17	32.69	34.65	35.87	37.60	36.98	38.29	27.88	26.11	23.83		
27	34.38	32.95	34.25	36.19	37.78	37.13	37.22	27.45	26.31	23.42		
28	34.30	33.52	34.05	36.32	37.78	36.93	35.95	27.25	26.75	23.87		
29	34.53	33.60	33.69	36.34		36.98	35.16	27.06	26.70	23.68		
30 31	34.47 34.61	33.89	33.84 33.39	36.34 36.35		37.10 36.95	34.46	26.95 26.60	25.91			
LOW	39.58	34.13	34.74	36.35	38.02	38.27	38.31	34.25	29.47	27.68	27.71	28.07
LOW	39.30	34.13	34.74	30.33	30.02	30.27	30.31	34.23	29.47	27.00	27.71	20.07
											1006	
	1	WATER LEV	EL, IN FE	EL BETOM		ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV NOV	EL, IN FE	JAN				EAR OCTOB	ER 1995 T JUN	O SEPTEMB JUL	AUG	SEP
DAY 1			DEC	JAN	D <i>F</i> FEB	AILY LOWES	ST VALUES APR	MAY	JUN	JUL	AUG	
	OCT	NOV			DA	AILY LOWES	ST VALUES					SEP 21.85 21.69
1	OCT	NOV	DEC 19.94	JAN 22.65	DF FEB 21.07	MAR 19.73	APR 20.43	MAY 15.23	JUN 12.01	JUL 16.36	AUG 17.22	21.85
1 2 3 4	OCT 23.90 23.26	NOV 	DEC 19.94 20.52 20.49 19.95	JAN 22.65 22.71 22.02 21.40	DF FEB 21.07 21.03 20.87 20.67	MAR 19.73 19.88 19.81 19.83	APR 20.43 20.44 20.65 20.88	MAY 15.23 14.31 13.64 13.18	JUN 12.01 11.95 11.73 11.76	JUL 16.36 16.66 16.85 16.71	AUG 17.22 17.72 17.76 17.57	21.85 21.69 21.65 22.27
1 2 3	OCT 23.90	NOV 	DEC 19.94 20.52 20.49	JAN 22.65 22.71 22.02	DF FEB 21.07 21.03 20.87	MAR 19.73 19.88 19.81	APR 20.43 20.44 20.65	MAY 15.23 14.31 13.64	JUN 12.01 11.95 11.73	JUL 16.36 16.66 16.85	AUG 17.22 17.72 17.76	21.85 21.69 21.65
1 2 3 4 5	OCT 23.90 23.26 22.65	NOV	DEC 19.94 20.52 20.49 19.95 20.24	JAN 22.65 22.71 22.02 21.40 21.33	DF FEB 21.07 21.03 20.87 20.67 20.59	MAR 19.73 19.88 19.81 19.83 20.06	APR 20.43 20.44 20.65 20.88 20.88	MAY 15.23 14.31 13.64 13.18 12.82	JUN 12.01 11.95 11.73 11.76 11.75	JUL 16.36 16.66 16.85 16.71 16.48	AUG 17.22 17.72 17.76 17.57 17.35	21.85 21.69 21.65 22.27 22.78
1 2 3 4 5	OCT 23.90 23.26 22.65	NOV	DEC 19.94 20.52 20.49 19.95 20.24	JAN 22.65 22.71 22.02 21.40 21.33 20.99	FEB 21.07 21.03 20.87 20.67 20.59	MAR 19.73 19.88 19.81 19.83 20.06	APR 20.43 20.44 20.65 20.88 20.88 20.60	MAY 15.23 14.31 13.64 13.18 12.82	JUN 12.01 11.95 11.73 11.76 11.75	JUL 16.36 16.66 16.85 16.71 16.48	AUG 17.22 17.72 17.76 17.57 17.35	21.85 21.69 21.65 22.27 22.78
1 2 3 4 5	OCT 23.90 23.26 22.65 22.33 21.78	NOV	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72	AUG 17.22 17.72 17.76 17.57 17.35 18.49 18.65	21.85 21.69 21.65 22.27 22.78 22.81 22.68
1 2 3 4 5	OCT 23.90 23.26 22.65	NOV	DEC 19.94 20.52 20.49 19.95 20.24	JAN 22.65 22.71 22.02 21.40 21.33 20.99	FEB 21.07 21.03 20.87 20.67 20.59	MAR 19.73 19.88 19.81 19.83 20.06	APR 20.43 20.44 20.65 20.88 20.88 20.60	MAY 15.23 14.31 13.64 13.18 12.82	JUN 12.01 11.95 11.73 11.76 11.75	JUL 16.36 16.66 16.85 16.71 16.48	AUG 17.22 17.72 17.76 17.57 17.35	21.85 21.69 21.65 22.27 22.78
1 2 3 4 5 6 7 8	OCT 23.90 23.26 22.65 22.33 21.78 21.40	NOV	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54	MAR 19.73 19.88 19.81 19.81 20.06 20.20 20.33 20.31	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.68	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72	AUG 17.22 17.72 17.76 17.57 17.35 18.49 18.65 18.73	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29
1 2 3 4 5 6 7 8 9	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91	NOV	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.90 19.69	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02
1 2 3 4 5 6 7 8 9 10	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91	NOV 21.15 21.71	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.90 19.69	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.45 20.16 20.25	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02
1 2 3 4 5 6 7 8 9 10	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91	NOV 21.15 21.71 21.72 21.31	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.90 19.69	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.39	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60
1 2 3 4 5 6 7 8 9 10	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91	NOV 21.15 21.71	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.90 19.69	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.45 20.16 20.25	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02
1 2 3 4 5 6 7 8 9 10	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.90 19.69 19.46 19.35 19.30	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.39 13.28	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.85 11.57 12.12 12.67 13.19 13.58 13.49	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60 22.86
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.52	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.54 20.36 20.40 20.25 20.28 20.40	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87	APR 20.43 20.44 20.65 20.88 20.88 20.88 20.60 20.45 20.36 20.42 20.16 19.68 19.50 19.13	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.32 13.32 13.32 13.38 12.58	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.85 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.60 23.60 22.86 22.49 22.67
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.56	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.35 19.35 19.30	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.20	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.69 19.53 19.30	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60 22.86 22.49 22.67
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.52	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.82	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.25 20.25 20.25 20.25	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68 19.50 19.13	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.02	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.56 20.55 20.26	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.82 20.80	PFEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.27 19.76	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08	APR 20.43 20.44 20.65 20.88 20.88 20.45 20.45 20.36 20.45 20.16 20.45 20.16 19.68 19.50 19.13	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.32 13.32 13.39 13.28 12.58 12.81	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.42 13.49	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.22 20.22	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.91 23.05 22.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.55 20.26 20.72	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.51 20.05 20.51 20.84 20.71	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.82 20.82 20.80 20.33	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.69 19.53 19.30 19.11 19.78 20.08 20.42	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.51 17.84	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.22 20.24 20.27	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.81 22.82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.26 20.72 21.03	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.82 20.80 20.33 20.14	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.27 19.76 19.73 19.87	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49	APR 20.43 20.44 20.65 20.88 20.88 20.45 20.45 20.45 20.16 20.45 20.16 20.16 20.16 20.25 20.16 19.68 19.50 19.13	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.48 14.28 14.64	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.59 13.59	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 17.51 17.84 17.97	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.22 20.24 20.27 20.22	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.60 23.60 22.86 22.49 22.67 22.81 22.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.56 20.55 20.26 20.72 21.03	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.35 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.82 20.82 20.82 20.80 20.33 20.14	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76 19.73 19.87	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.69 19.53 19.30 19.11 19.78 20.42 20.49 20.56	APR 20.43 20.44 20.65 20.88 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64 14.78	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59 13.50 13.29	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.51 17.84 17.97	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.22 20.24 20.22 20.24 20.22 20.88	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.87 22.87 22.87
1 2 3 4 5 6 7 8 9 10 11 122 13 14 15 16 17 18 19 20 21 22	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.56 20.72 21.03 20.93 21.13	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.80 20.33 20.14 20.18 20.18	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.25 20.28 20.40 20.25 20.28 20.40 20.27 19.76 19.77 19.87	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59 13.50 13.29 13.42	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.51 17.84 17.97	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.24 20.27 20.22 20.88 21.17	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60 22.86 22.49 22.67 22.91 23.05 22.83 22.72 22.28
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.56 20.55 20.26 20.72 21.03 20.93 21.13 21.05	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 20.63	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.82 20.80 20.33 20.14 20.18 20.18 20.03	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76 19.73 19.87 19.87	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33 20.33	APR 20.43 20.44 20.65 20.88 20.88 20.65 20.45 20.36 20.45 20.16 20.16 20.16 20.16 20.16 20.16 20.16 20.16 20.16 20.16 20.17 2	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 14.64 14.78 14.78 14.88 14.81	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.59 13.50 13.29 13.50	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 17.51 17.84 17.97 17.80 17.18 17.60	AUG 17. 22 17. 76 17. 57 17. 35 18. 49 18. 65 18. 73 19.02 18. 87 18. 38 19. 23 19. 84 20. 37 20. 40 20. 22 20. 24 20. 27 20. 22 20. 28 21. 17 21. 45	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.83 22.72 22.28 22.22 23.05
1 2 3 4 5 6 7 8 9 10 11 122 13 14 15 16 17 18 19 20 21 22	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.56 20.72 21.03 20.93 21.13	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.80 20.33 20.14 20.18 20.18	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.25 20.28 20.40 20.25 20.28 20.40 20.27 19.76 19.77 19.87	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59 13.50 13.29 13.42	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.51 17.84 17.97	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.24 20.27 20.22 20.88 21.17	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60 22.86 22.49 22.67 22.91 23.05 22.83 22.72 22.28
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	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.55 20.26 20.72 21.03 20.93 21.13 21.05 20.45 20.22	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 20.63 20.94 21.13	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.80 20.33 20.14 20.18 20.03 20.03 20.03 20.08	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.25 20.28 20.40 20.25 20.29 20.40 20.27 19.76 19.73 19.87 19.87 19.81 19.95	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.42 20.42 20.49	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.72 13.32 13.39 13.28 12.58 12.81 13.08 14.66 13.88 14.28 14.78 14.88 14.88 14.81 14.84 14.36	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.59 13.62 13.71 13.42 13.50 13.31 14.22	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 17.51 17.84 17.97 17.80 17.18 17.60 17.81 17.72	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.24 20.27 20.22 20.24 20.27 20.22 20.288 21.17 21.45 21.69 22.17	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.87 22.28 22.22 23.05 22.12 22.28
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	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.55 20.26 20.72 21.03 20.93 21.13 21.05 20.45 20.45 20.22	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 20.62 21.10 20.63 20.94 21.13	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.81 20.63 20.75 20.70 20.94 21.27 21.22 20.82 20.82 20.83 20.14 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.54 20.36 20.40 20.25 20.28 20.40 20.27 19.76 19.73 19.87 19.87 19.87 19.81 19.95	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.42 20.49 20.56 20.33 20.33 20.31 20.76	APR 20.43 20.44 20.65 20.88 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 14.28 14.64 14.78 14.88 14.81 14.88 14.81 14.88 14.36 13.75	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.71 13.42 13.26 13.30 13.31 14.22 14.94	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 17.51 17.84 17.97 17.80 17.18 17.60 17.18 17.60 17.81 17.72	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.88 21.17 21.45 21.69 22.17	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.87 22.28 22.29 22.67 22.91 23.05 22.83 22.72 22.28 22.28
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 25 26 27	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.26 20.72 21.03 20.93 21.13 21.05 20.45 20.22	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.36 20.51 20.84 20.71 20.62 21.10 20.63 20.94 21.13	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.82 20.82 20.80 20.33 20.14 20.18 20.18 20.03 20.03 20.03 20.08 20.03	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76 19.73 19.87 19.87 19.82 19.81 19.95	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33 20.33 20.39 20.81 20.76	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64 14.78 14.81 14.84 14.36	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59 13.50 13.29 13.30 13.31 14.22 14.94 15.43	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.81 17.84 17.97 17.80 17.18 17.60 17.81 17.72	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.40 20.02 20.24 20.27 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.24 20.27 20.22	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 23.60 22.86 22.49 22.67 22.91 23.05 22.83 22.72 22.28 22.28 22.14 22.24 22.23 22.23 22.23
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	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.55 20.56 20.72 21.03 20.72 21.03 20.93 21.13 21.05 20.45 20.22	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 20.63 20.94 21.13 21.43 21.43 21.73 21.92	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.80 20.33 20.14 20.18 20.03 20.03 20.03 20.03 20.08 20.03	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76 19.73 19.87 19.87 19.81 19.95 19.90 20.13 20.21	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33 20.33 20.39 20.81 20.76	APR 20.43 20.44 20.65 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87 16.87	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64 14.78 14.88 14.81 14.84 14.36 13.75 13.41 13.04	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.59 13.59 13.59 13.59 13.50 13.29 13.31 14.22 14.94 15.43 15.72	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 17.81 17.84 17.97 17.80 17.18 17.60 17.18 17.72 17.86 17.72 17.86 17.72	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 20.40 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.88 21.17 21.45 21.69 22.17	21.85 21.69 21.65 22.27 22.78 22.81 22.62 23.02 23.60 23.60 23.60 22.86 22.49 22.67 22.87 22.87 22.83 22.72 22.83 22.72 22.84 21.44 21.22 20.92 20.92
1 2 3 4 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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.26 20.72 21.03 20.93 21.13 21.05 20.45 20.22 19.82 20.32 20.32 20.32 20.318 19.78	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 21.10 20.63 20.94 21.13 21.43 21.73 21.43 21.73 21.92 22.16	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.75 20.70 20.94 21.27 21.22 20.82 20.82 20.83 20.14 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18 20.18	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.54 20.36 20.40 20.25 20.28 20.40 20.27 19.76 19.73 19.87 19.87 19.87 19.81 19.95	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.68 19.60 19.53 19.30 19.11 19.78 20.42 20.49 20.56 20.33 20.31 20.76 20.58 20.68 20.68 20.68	APR 20.43 20.44 20.65 20.88 20.88 20.88 20.86 20.45 20.36 20.42 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87 16.87 16.56 16.56 16.56	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.68 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 14.64 14.78 14.88 14.81 14.84 14.36 13.75 13.41 13.04 12.71	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.71 13.42 13.30 13.31 14.22 14.94 15.43 15.72 15.92	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 17.51 17.84 17.97 17.80 17.18 17.60 17.18 17.60 17.18 17.72 17.86 17.76 17.47 16.82	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.22 20.24 20.27 20.22 20.88 21.17 21.45 21.69 22.17 22.41 22.46 22.68 22.86	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.87 22.83 22.72 22.28 22.28 22.28 22.29 22.67
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	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.55 20.56 20.72 21.03 20.72 21.03 20.93 21.13 21.05 20.45 20.22	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.30 19.52 19.51 20.05 20.51 20.84 20.71 20.62 21.10 20.63 20.94 21.13 21.43 21.43 21.73 21.92	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.92 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.80 20.33 20.14 20.18 20.03 20.03 20.03 20.03 20.08 20.03	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.20 20.07 19.76 19.73 19.87 19.87 19.81 19.95 19.90 20.13 20.21	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.60 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33 20.33 20.39 20.81 20.76	APR 20.43 20.44 20.65 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87 16.87	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64 14.78 14.88 14.81 14.84 14.36 13.75 13.41 13.04	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.59 13.59 13.59 13.59 13.50 13.29 13.31 14.22 14.94 15.43 15.72	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 17.81 17.84 17.97 17.80 17.18 17.60 17.18 17.72 17.86 17.72 17.86 17.72	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 20.40 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.88 21.17 21.45 21.69 22.17	21.85 21.69 21.65 22.27 22.78 22.81 22.62 23.02 23.60 23.60 23.60 22.86 22.49 22.67 22.87 22.87 22.83 22.72 22.83 22.72 22.84 21.44 21.22 20.92 20.92
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 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	OCT 23.90 23.26 22.65 22.33 21.78 21.40 21.25 20.91 20.90	NOV 21.15 21.71 21.72 21.31 21.02 20.67 20.55 20.26 20.75 20.26 20.72 21.03 20.93 21.13 21.05 20.45 20.22 19.82 20.32 20.18 19.78	DEC 19.94 20.52 20.49 19.95 20.24 20.22 20.00 19.90 19.69 19.46 19.35 19.35 19.35 19.35 19.36 20.51 20.63 20.71 20.62 21.10 20.63 20.94 21.13 21.43 21.73 21.92 22.16 22.17	JAN 22.65 22.71 22.02 21.40 21.33 20.99 20.81 20.63 20.73 20.75 20.70 20.94 21.27 21.22 20.92 20.82 20.80 20.33 20.14 20.18 20.18 20.03 20.03 20.08 20.03 20.08 20.10 20.26 20.82 21.33 21.75	DF FEB 21.07 21.03 20.87 20.67 20.59 20.47 20.51 20.54 20.36 20.40 20.25 20.28 20.40 20.27 19.76 19.77 19.87 19.87 19.82 19.81 19.95 19.90 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.22 20.21 2	MAR 19.73 19.88 19.81 19.83 20.06 20.20 20.33 20.31 20.06 19.87 19.79 19.68 19.69 19.53 19.30 19.11 19.78 20.08 20.42 20.49 20.56 20.33 20.33 20.39 20.81 20.76	APR 20.43 20.44 20.65 20.88 20.88 20.60 20.45 20.36 20.42 20.16 20.25 20.16 19.68 19.50 19.13 19.00 18.24 18.31 18.05 17.95 17.71 17.44 17.33 17.04 16.87 16.56 16.56 16.56 16.58	MAY 15.23 14.31 13.64 13.18 12.82 12.84 13.28 13.48 13.72 13.32 13.39 13.28 12.58 12.81 13.08 13.66 13.88 14.28 14.64 14.78 14.88 14.81 14.88 14.81 14.81 14.81 14.81 14.81 14.81	JUN 12.01 11.95 11.73 11.76 11.75 11.85 11.83 11.57 12.12 12.67 13.19 13.58 13.49 13.62 13.71 13.42 13.26 13.49 13.59 13.50 13.29 13.30 13.31 14.22 14.94 15.43 15.72 15.92 15.96	JUL 16.36 16.66 16.85 16.71 16.48 16.15 15.72 15.06 15.11 15.42 16.17 16.15 15.80 15.52 15.43 16.09 16.96 17.51 17.84 17.97 17.80 17.18 17.60 17.18 17.72 17.86 17.77 16.82 17.47 16.82 17.35	AUG 17.22 17.76 17.57 17.35 18.49 18.65 18.73 19.02 18.87 18.38 19.23 19.84 20.37 20.40 20.02 20.24 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.24 20.27 20.22 20.88 21.17 21.45 21.69 22.17	21.85 21.69 21.65 22.27 22.78 22.81 22.68 22.29 22.62 23.02 23.60 22.86 22.49 22.67 22.87 22.28 22.29 22.67 22.91 23.05 22.83 22.72 22.28 22.23 22.00 21.58 21.44 21.22 20.30 20.40 20.55 20.77

e Estimated

SITE NUMBER 30—Continued

		WATER LEV	JEL, IN F	EET BELOW		FACE DATUM		EAR OCTO	BER 1996	TO SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	20.96 21.02 20.13 20.00 20.21	18.43 18.42 18.10 18.16 18.19	15.30 15.52 15.61 15.68 15.49	13.06 12.49 12.12 11.88 11.84	14.42 14.50 14.86 15.24 15.23	15.25 14.96 15.43 15.43 15.76	14.04 13.94 13.24 13.10 13.15	9.42 9.80 9.79 9.44 9.60	9.40 9.48 9.23 9.10 8.88	10.81 11.05 11.77 11.79 11.91	9.47 8.97 8.95 8.97 8.66	7.50 7.48 7.14 7.68 7.68
6 7 8 9 10	20.64 20.85 20.85 21.18 21.19	17.94 17.94 17.80 17.72 17.51	15.89 16.03 15.98 15.71 15.81	11.72 11.44 11.40 11.29	15.07 15.11 15.04 15.00 15.10	15.77 15.81 15.71 15.69 15.79	13.12 12.90 13.02 12.99 12.92	9.56 9.45 9.53 9.53 9.34	8.89 8.74 8.39 8.45 8.82	11.97 12.49 12.63 13.06 13.40	8.63 8.45 8.42 8.96 9.12	6.63 6.84 7.53 7.54 7.17
11 12 13 14 15	21.17 21.46 21.64 21.49 21.12	17.45 17.45 16.83 16.79 16.27	16.21 16.26 16.10 16.56 16.56	11.35 11.35 11.22 10.80 11.13	15.45 15.43 15.90 16.06 16.32	16.02 16.14 16.36 16.38 16.20	12.95 12.88 12.76 12.25 12.55	8.89 9.25 9.35 9.35 9.11	8.66 8.65 8.67 8.21 8.10	13.69 13.65 12.84 13.12 13.64	8.96 9.07 9.04 9.06 9.42	7.48 8.00 8.20 8.24 8.24
16 17 18 19 20	20.48 20.32 20.27 19.36 19.30	16.24 16.19 15.47 15.47	16.00 16.16 16.22 16.19 16.09	11.13 10.92 10.81 10.75 10.51	16.27 16.16 16.08 15.95 15.53	15.93 16.44 16.64 16.55 16.36	12.52 12.12 11.88 11.84 11.42	9.59 10.00 10.18 9.81 10.04	8.14 8.52 9.05 9.14 9.16	14.02 14.21 14.30 13.66 13.19	9.44 9.25 9.10 9.15 9.07	7.85 7.89 7.71 7.53 6.99
21 22 23 24 25	19.40 18.66 19.21 19.21 19.65	15.99 15.96 16.13 16.13	15.51 14.73 14.11 13.80 13.35	10.44 10.55 11.75 12.77 12.99	15.46 15.27 15.24 15.26 15.13	16.19 16.03 15.85 15.72 15.72	11.08 11.30 11.30 11.38 11.38	10.23 10.59 10.57 10.49 10.46	9.16 9.14 9.96 10.15 10.73	12.29 11.57 11.57 11.63 11.34	9.04 9.10 8.30 8.10 7.95	6.87 6.03 6.19 6.09 6.00
26 27 28 29 30 31	19.66 19.72 19.57 18.76 18.77	16.45 16.19 15.94 15.42 15.47	13.06 12.47 12.49 12.45 12.60 13.08	13.45 14.04 14.31 14.58 14.36	15.14 14.77 15.23 	15.58 15.26 15.13 15.15 14.59	11.17 10.88 10.63 10.10 9.28	10.31 9.69 9.12 8.43 8.56 8.60	10.57 10.98 11.23 11.20 11.01	11.05 11.36 11.47 10.76 10.02 9.95	7.77 7.26 7.40 7.52 7.55 7.52	5.91 5.95 5.97 6.16 6.16
LOW	21.64	18.43	16.56	14.58	16.32	16.64	14.04	10.59	11.23	14.30	9.47	8.24
ном												
HOW		WATER LEV	JEL, IN F	EET BELOW		FACE DATUM		EAR OCTOE	BER 1997	TO SEPTEME	BER 1998	
DAY	OCT	WATER LEV	JEL, IN F	EET BELOW JAN				EAR OCTOE	BER 1997 JUN	TO SEPTEME JUL	BER 1998 AUG	SEP
	OCT 6.65 6.65 6.62 6.57 6.70				D	AILY LOWES	ST VALUES					SEP 12.58 12.43 13.19 13.83 14.34
DAY 1 2 3 4	6.65 6.65 6.62 6.57	NOV 6.97 6.97 6.53 7.00	DEC 5.37 5.60 5.60 5.62	JAN 6.72 6.94 7.08 6.91	FEB 8.81 9.04 9.03 8.93	MAR 9.99 10.00 9.93 10.06	APR 9.67 9.63 9.61 9.41	MAY 7.54 7.84 7.95 8.20	JUN 9.15 9.61 9.58 9.22	JUL 11.91 11.76 11.97 11.92	AUG 7.18 6.95 6.48 6.73	12.58 12.43 13.19 13.83
DAY 1 2 3 4 5 6 7 8 9	6.65 6.65 6.62 6.57 6.70 7.30 7.30 7.38 7.27	NOV 6.97 6.97 6.53 7.00 7.01 6.93 6.44 6.06 5.90 5.54	DEC 5.37 5.60 5.60 5.62 5.63 5.48 5.18 5.25 5.74 6.07	JAN 6.72 6.94 7.08 6.91 7.15 7.28 7.23 7.35 7.54	FEB 8.81 9.04 9.03 8.93 9.18 9.19 9.15 9.20 9.43 9.48	MAR 9.99 10.00 9.93 10.06 10.14 10.12 10.27 10.31 10.33	APR 9.67 9.63 9.61 9.41 9.03 8.85 8.66 8.48 8.32 8.10	MAY 7.54 7.84 7.95 8.20 8.15 8.11 8.01 7.85 7.73	JUN 9.15 9.61 9.58 9.22 8.38 7.94 7.61 7.24 7.98	JUL 11.91 11.76 11.97 11.92 11.78 12.34 12.31 12.17 10.84 10.24	AUG 7.18 6.95 6.48 6.73 7.09 8.38 9.16 10.08 11.12	12.58 12.43 13.19 13.83 14.34 14.37 14.53 14.68 14.90 15.29
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	6.65 6.62 6.57 6.70 7.30 7.00 7.38 7.27 7.41 6.66 6.76 6.75	NOV 6.97 6.97 6.53 7.00 7.01 6.93 6.44 6.06 5.90 5.54 5.17 5.05 5.11	DEC 5.37 5.60 5.60 5.62 5.63 5.48 5.18 5.25 5.74 6.07 6.13 6.04 5.97 5.94	JAN 6.72 6.94 7.08 6.91 7.15 7.28 7.35 7.54 7.55 7.66 7.65 7.73	FEB 8.81 9.04 9.03 8.93 9.18 9.19 9.15 9.20 9.43 9.48 9.51 9.52 9.47 9.43	MAR 9.99 10.00 9.93 10.06 10.14 10.12 10.27 10.31 10.33 10.61 10.60 10.18 10.38 10.38	APR 9.67 9.63 9.61 9.41 9.03 8.85 8.66 8.48 8.32 8.10 7.69 7.04 7.08 7.27	MAY 7.54 7.84 7.95 8.20 8.15 8.11 8.01 7.85 7.73 7.18 7.47 7.15 6.63 6.90	JUN 9.15 9.61 9.58 9.22 8.38 7.94 7.61 7.24 7.98 8.07 8.19 8.42 8.42 7.92	JUL 11.91 11.76 11.97 11.92 11.78 12.34 12.31 12.17 10.84 10.24 9.73 9.51 9.52 9.65	AUG 7.18 6.95 6.48 6.73 7.09 8.38 9.16 10.08 11.12 11.52 11.56 11.21 11.17 11.13	12.58 12.43 13.19 13.83 14.34 14.37 14.53 14.68 14.90 15.29 15.48 15.37 14.68 13.95
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	6.65 6.62 6.57 6.70 7.30 7.38 7.27 7.41 6.66 6.76 6.75 7.39 7.46 7.88	NOV 6.97 6.97 6.53 7.00 7.01 6.93 6.44 6.06 5.90 5.54 5.17 5.05 5.11 5.35 5.35	DEC 5.37 5.60 5.62 5.63 5.48 5.18 5.25 5.74 6.07 6.13 6.04 5.97 5.94 6.05	JAN 6.72 6.94 7.08 6.91 7.15 7.28 7.35 7.54 7.55 7.66 7.73 7.75 7.89 8.02 8.10 8.01	FEB 8.81 9.04 9.03 8.93 9.18 9.19 9.15 9.20 9.43 9.48 9.51 9.52 9.47 9.43 9.30	MAR 9.99 10.00 9.93 10.06 10.14 10.12 10.27 10.31 10.33 10.61 10.60 10.18 10.38 10.37 10.33 10.61 10.38 10.37 10.35	APR 9.67 9.63 9.61 9.41 9.03 8.85 8.66 8.48 8.32 8.10 7.69 7.04 7.04 7.04 7.05 7.99 7.45	MAY 7.54 7.84 7.95 8.20 8.15 8.11 8.01 7.85 7.73 7.18 7.47 7.15 6.63 6.90 6.86 6.71 7.02 7.30 7.63	JUN 9.15 9.61 9.58 9.22 8.38 7.94 7.61 7.24 7.98 8.07 8.19 8.42 7.92 8.88 9.49 9.45 9.46 9.18	JUL 11.91 11.76 11.97 11.92 11.78 12.34 12.31 12.17 10.84 10.24 9.73 9.51 9.52 9.65 9.61 9.29 9.26 9.35 9.47	AUG 7.18 6.95 6.48 6.73 7.09 8.38 9.16 10.08 11.12 11.52 11.52 11.56 11.21 11.17 11.13 11.16 11.60 11.54 11.57	12.58 12.43 13.19 13.83 14.34 14.37 14.53 14.68 14.90 15.29 15.48 15.37 14.68 13.95 12.99 12.41 12.60 13.37
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	6.65 6.65 6.62 6.57 6.70 7.30 7.30 7.41 6.66 6.76 6.75 7.39 7.39 7.46 7.88 7.88 7.64 7.11 6.33 6.93	NOV 6.97 6.97 6.53 7.00 7.01 6.93 6.44 6.06 5.90 5.54 5.17 5.05 5.11 5.35 5.35 5.22 5.06 6.5.10 5.14 5.10	DEC 5.37 5.60 5.62 5.63 5.48 5.18 5.25 5.74 6.07 6.13 6.04 5.97 5.94 6.05 6.06 6.29 6.48 6.39 6.28 6.47 6.38 6.56	JAN 6.72 6.94 7.08 6.91 7.15 7.28 7.23 7.35 7.54 7.55 7.66 7.73 7.75 7.89 8.02 8.10 8.01 8.18 8.27 8.29 8.39 8.30	FEB 8.81 9.04 9.03 8.93 9.18 9.19 9.15 9.20 9.43 9.48 9.51 9.52 9.47 9.43 9.30 9.48 9.68 9.72 9.69 9.62 9.63 9.75 9.73	MAR 9.99 10.00 9.93 10.06 10.14 10.12 10.27 10.31 10.33 10.61 10.60 10.18 10.38 10.37 10.33 10.61 10.34 10.54 10.50 10.34 10.38 10.31 10.38 10.38	ST VALUES APR 9.67 9.63 9.61 9.41 9.03 8.85 8.66 8.48 8.32 8.10 7.69 7.04 7.08 7.27 7.45 7.99 7.89 7.61 7.42 7.56 7.13 7.23 7.32 6.93	MAY 7.54 7.84 7.95 8.20 8.15 8.11 8.01 7.85 7.73 7.18 7.47 7.15 6.63 6.90 6.86 6.71 7.02 7.30 7.63 7.97 8.12 7.87 7.58	JUN 9.15 9.61 9.58 9.22 8.38 7.94 7.61 7.24 7.98 8.07 8.19 8.42 7.92 8.88 9.49 9.45 9.46 9.18 8.57 8.13 7.62 7.33 8.48	JUL 11.91 11.76 11.97 11.92 11.78 12.34 12.31 12.17 10.84 10.24 9.73 9.51 9.65 9.61 9.29 9.26 9.35 9.47 9.51 9.61 9.61 9.61 9.61 9.61	AUG 7.18 6.95 6.48 6.73 7.09 8.38 9.16 10.08 11.12 11.52 11.52 11.56 11.21 11.17 11.13 11.16 11.60 11.54 11.57 11.41 11.30 10.81 10.76 11.76	12.58 12.43 13.19 13.83 14.34 14.37 14.53 14.68 14.90 15.29 15.48 15.37 14.68 13.95 12.99 12.41 12.60 12.60 13.37 13.37

SITE NUMBER FROM LOCATION MAP.—31.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N7E32ABBC.

SITE ID (STATION NUMBER).—440544103180001.

OTHER IDENTIFIERS.—PE-89D and City Quarry Mnls.

LOCATION.—Lat 44°05′43.6″, long 103°18′05.2″, in SW¹/4NW¹/4NW¹/4NE¹/4 sec. 32, T. 2 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 175 ft deep with 135 ft of 6 3/8-in. steel casing; open hole from 135 to 175 ft.

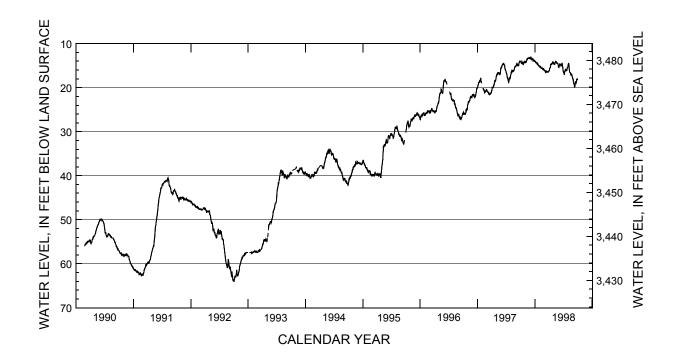
INSTRUMENTATION.—Electronic data logger with float-driven shaft encoder -- 60-minute interval. Prior to July 1992, digital water-level recorder.

DATUM.—Elevation of land-surface datum is 3,493.8 ft above sea level. Measuring point: Top of steel casing, 1.45 ft above land-surface datum.

REMARKS.—Records good. Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.—February 1990 to September 1998.

EXTREMES.—Highest daily water level, 13.25 ft below land-surface datum, Nov. 24, 1997; lowest daily water level, 64.05 ft below land-surface datum, Oct. 2, 1992.



SITE NUMBER 31-Continued

SITE	NUMBER	31-	-Continued WATER LEVEL	, IN FEET	BELOW		ACE DATUM,		EAR OCTOBER	1994	FO SEPTEMBE	R 1995	
DAY	C	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	41. 41. 41. 41.	. 52 . 42 . 28	38.00 38.10 38.14 37.94 38.01	37.01 36.96 36.99 37.07 37.10	36.72 36.54 36.52 36.50 36.62	38.66 39.09 39.16 39.02 38.98	39.90 39.86 39.75 39.74 39.78	39.63 39.64 39.80 39.80 39.63	37.96 37.72 37.60	31.87 32.34 32.59 32.71 32.54	30.52 30.46 30.45 30.49 30.58	29.11 29.23 29.32 29.35 29.19	31.14 31.32 31.52 31.76 31.90
6 7 8 9 10	40. 40. 40. 40.	.94 .94 .64	38.01 37.91 37.94 37.94 37.59	37.07 37.09 37.16 37.25 37.36	36.85 37.07 37.11 37.24 37.23	38.99 39.12 39.00 39.00 38.95	40.05 40.15 39.91 39.80 39.85	39.64 39.77 39.70 39.91 39.99	36.60 36.36 35.48	32.32 32.48 32.47 32.20 31.73	30.73 30.71 30.72 30.76 30.89	28.84 28.61 29.13 29.23 29.42	32.02 31.96 31.61 31.65 31.69
11 12 13 14 15	40. 40. 40. 40.	. 55 . 55 . 36	37.61 37.41 37.49 37.64 37.51	37.18 37.24 37.24 37.22 37.23	37.23 37.53 37.58 37.52 37.53	39.02 39.14 39.07 38.96 39.18	39.81 39.78 39.94 40.01 39.77	39.76 39.85 39.74 39.60 39.71	33.57 33.62 33.61	31.46 31.15 31.04 30.89 30.88	31.01 31.20 31.37 31.52 31.46	29.64 29.76 29.87 29.91 30.00	31.85 32.03 32.38 32.39 32.42
16 17 18 19 20	40. 40. 40. 39.	.16 .02 .02	37.01 37.04 37.37 37.34 37.14	37.30 37.44 37.27 37.38 37.40	37.63 37.78 38.08 38.09 38.18	39.36 39.29 39.63 39.59 39.80	39.86 39.86 39.54 39.39 39.45	39.71 39.70 39.59 39.57 39.66	33.02 32.92 32.90	31.10 31.20 31.22 31.24 31.44	31.35 31.12 30.98 30.65 30.45	30.10 30.24 30.62 30.63 30.59	32.66 32.63 32.72 32.76 32.54
21 22 23 24 25	39. 39. 39. 39.	. 40 . 34 . 34	37.31 37.45 37.34 37.25 37.24	37.35 37.50 37.46 37.24 37.40	38.17 38.10 38.23 38.30 38.23	39.60 39.71 39.87 39.81 39.62	39.37 39.56 39.58 39.44 39.62	40.06 40.15 40.15 40.16 40.41	33.23 33.21 33.00	31.53 31.50 31.25 31.09 30.87	30.21 30.15 29.80 29.45 29.36	30.75 30.85 30.86 30.89 31.08	32.44 32.19
26 27 28 29 30 31	38. 38. 38. 38. 38.	. 55 . 55 . 63 . 46	36.75 36.82 37.12 37.21 37.09	37.43 37.30 37.27 37.02 37.06 37.00	38.22 38.50 38.65 38.68 38.58 38.57	39.84 40.03 40.02 	39.63 39.73 39.77 39.76 39.68 39.63	40.42 40.09 39.56 39.23 38.82	32.32 32.25 32.15	30.69 30.73 30.89 30.89 30.78	29.15 28.93 29.05 29.00 29.11 29.18	31.07 30.83 30.91 30.78 31.03 31.08	
LOW	41.	. 86	38.14	37.50	38.68	40.03	40.15	40.42	38.58	32.71	31.52	31.08	32.76
шом													
TOW			WATER LEVEL	, IN FEET	BELOW		ACE DATUM,		EAR OCTOBER	1995	TO SEPTEMBE	R 1996	
DAY	C	OCT	WATER LEVEL	, IN FEET	BELOW JAN					1995 '	TO SEPTEMBE	R 1996 AUG	SEP
	-	 .91 .59				DA	LILY LOWEST	VALUES	MAY 22.66 22.24 21.93 21.75				SEP 26.06 26.07 26.07 26.16 26.57
DAY 1 2 3 4	- - 29. 29.	.91 .59 .44 .30 .84	NOV 27.83 27.78 27.62 27.43	DEC 26.21 26.46 26.58 26.25	JAN 27.24 27.25 26.79 26.84	DA FEB 26.30 26.29 26.20 26.04	MAR 25.19 25.36 25.27 25.26	APR 25.29 25.29 25.60 25.74	MAY 22.66 22.24 21.93 21.75 21.57 21.27 21.26 21.33 21.29	JUN 18.63 18.62 18.45 18.28	JUL 	AUG 22.83 22.93 22.99 23.04	26.06 26.07 26.07 26.16
DAY 1 2 3 4 5 6 7 8 9	29. 29. 29. 29. 28. 28. 28.		NOV 27.83 27.78 27.62 27.43 27.07 27.30 27.43 27.27 27.10 27.54	DEC 26.21 26.46 26.58 26.25 26.32 26.30 26.23 26.25 26.23 26.26 26.23	JAN 27.24 27.25 26.79 26.84 26.83 26.65 26.44 26.30 26.30	DA FEB 26.30 26.29 26.20 26.04 26.00 25.84 25.82 25.85 25.67	MAR 25.19 25.36 25.27 25.26 25.46 25.67 25.63 25.40	APR 25.29 25.29 25.60 25.74 25.73 25.53 25.43 25.45 25.45 25.33	MAY 22.66 22.24 21.93 21.75 21.57 21.27 21.26 21.33 21.29 21.32 21.13 21.00 20.85 20.40	JUN 18.63 18.62 18.45 18.28 18.29 18.30 18.30 18.16 18.20 18.47	JUL 21.17	AUG 22.83 22.93 22.99 23.04 23.50 23.70 23.70 23.76 23.90	26.06 26.07 26.07 26.16 26.57 26.69 26.66 26.49 26.70 26.99
DAY 1 2 3 4 5 6 7 8 8 9 10 11 12 12 13 14	29 29 29 29 28 28 28 28 28 27 27		NOV 27.83 27.78 27.62 27.43 27.07 27.30 27.43 27.27 27.10 27.54 27.54 27.27 27.10 27.54	DEC 26.21 26.46 26.58 26.25 26.32 26.30 26.25 26.23 26.25 26.23 26.73 26.584	JAN 27.24 27.25 26.79 26.84 26.83 26.65 26.44 26.30 26.23 26.23 26.17 26.24	DA FEB 26.30 26.29 26.20 26.04 26.00 25.84 25.82 25.85 25.67 25.84 25.85	MAR 25.19 25.36 25.27 25.26 25.46 25.67 25.63 25.40 25.24 25.17 24.99 25.01 24.99	VALUES APR 25.29 25.60 25.74 25.73 25.53 25.45 25.45 25.45 25.45 25.25 25.21	MAY 22.66 22.24 21.93 21.75 21.57 21.27 21.26 21.33 21.29 21.32 21.13 21.00 20.85 20.40 20.51 20.50 20.69	JUN 18.63 18.62 18.45 18.28 18.29 18.30 18.16 18.20 18.47 18.67 18.68 18.68 18.69	JUL 21.17 21.24 21.55 21.56 21.50 21.43	AUG 22.83 22.93 22.99 23.04 23.00 23.50 23.76 23.76 23.76 23.76 23.76 23.72 23.99 24.38 24.57	26.06 26.07 26.07 26.16 26.57 26.69 26.66 26.49 26.70 26.99 27.16 27.16 26.80
DAY 1 2 3 4 4 5 5 6 6 7 7 8 8 9 9 10 11 12 13 14 15 16 17 7 18 8 19	29 29 29 29 29 28 28 28 27 27 27 27 27 27 27 28 28 28		NOV 27.83 27.78 27.62 27.43 27.07 27.30 27.43 27.27 27.10 27.54 27.54 27.22 27.23 27.04 26.99 26.92 26.93 26.73 26.92	DEC 26.21 26.46 26.58 26.25 26.32 26.30 26.23 26.25 26.23 26.25 26.23 26.06 25.84 25.73 25.87 25.87	JAN 27.24 27.25 26.79 26.84 26.83 26.65 26.40 26.30 26.23 26.12 26.41 26.33 26.11 26.33 26.11 26.33 25.94	FEB 26.30 26.29 26.20 26.04 26.00 25.84 25.85 25.67 25.84 25.89 25.69 25.72 25.89	MAR 25.19 25.36 25.27 25.26 25.46 25.66 25.63 25.40 25.24 25.17 24.99 24.82 24.82 24.86 25.06 25.22	VALUES APR 25.29 25.60 25.74 25.73 25.53 25.45 25.45 25.45 25.21 24.94 24.71 24.24 24.15	MAY 22.66 22.24 21.93 21.75 21.57 21.27 21.26 21.33 21.29 21.32 21.13 21.00 20.85 20.40 20.51 20.69 20.78 20.94	JUN 18.63 18.62 18.45 18.28 18.29 18.30 18.16 18.20 18.47 18.67 18.68 18.69 18.70 19.04	JUL 21.17 21.24 21.55 21.56 21.50 21.43 21.39 21.60 22.06 22.37 22.59	AUG 22.83 22.93 22.99 23.04 23.00 23.70 23.76 23.90 23.76 23.99 24.38 24.57 24.61 24.53 24.53 24.62 24.81	26.06 26.07 26.16 26.57 26.66 26.66 26.49 26.70 26.97 26.80 26.88 27.16 27.16 27.16 27.16 27.16
DAY 1 2 3 4 4 5 5 6 6 7 7 8 8 9 9 10 11 1 12 13 14 4 15 5 16 17 7 18 8 19 20 21 22 23 3 24 4	29 29 29 29 29 28 28 28 28 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28		NOV 27.83 27.78 27.62 27.43 27.07 27.30 27.43 27.27 27.10 27.54 27.54 27.54 27.62 27.62 27.7 27.04 26.99 26.92 26.93 26.93 26.92 27.04 26.97 26.95 26.95 26.94 26.64	DEC 26.21 26.46 26.58 26.25 26.32 26.30 26.23 26.25 26.23 26.06 25.84 25.73 25.68 25.87 25.87 25.87 26.20 26.20 26.21 26.23 26.10	JAN 27.24 27.25 26.79 26.84 26.63 26.64 26.30 26.30 26.23 26.17 26.41 26.33 26.17 26.33 25.94 25.84	FEB 26.30 26.29 26.20 26.04 26.00 25.84 25.85 25.67 25.84 25.89 25.72 25.89 25.69 25.72 25.89 25.67 25.34 25.34 25.34	MAR 25.19 25.36 25.27 25.26 25.46 25.63 25.40 25.24 25.17 24.99 24.82 24.86 25.22 25.21 25.21 25.14 25.14 25.14	VALUES APR 25.29 25.60 25.74 25.73 25.53 25.45 25.45 25.45 25.22 25.21 24.94 24.71 24.24 24.15 24.12 24.02 23.78 23.78 23.78	MAY 22.66 22.24 21.93 21.75 21.57 21.27 21.26 21.33 21.29 21.32 21.13 21.00 20.85 20.40 20.51 20.69 20.78 20.94 21.18 21.23 21.22 21.26 21.26 21.26	JUN 18.63 18.62 18.45 18.29 18.30 18.16 18.20 18.47 18.67 18.69 18.70 18.70 19.04	JUL 21.17 21.24 21.55 21.56 21.50 21.43 21.39 21.60 22.06 22.37 22.59 22.71 22.74 22.66 22.75 22.87	AUG 22.83 22.93 22.99 23.04 23.00 23.76 23.76 23.90 23.76 23.72 24.57 24.61 24.53 24.57 24.61 24.53 24.57 24.61	26.06 26.07 26.16 26.57 26.66 26.49 26.70 26.99 27.16 27.16 27.18 26.80 26.88 27.03 27.21 27.18 27.26 88

SITE NUMBER 31—Continued

		WATER LEV	EL, IN FEE	T BELOW	LAND-SURFA	ACE DATUM. ILY LOWES		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	26.11 26.18 25.77 25.60 25.66	23.63 23.63 23.28 23.20 23.19	21.52 21.69 21.71 21.69 21.48	20.05 19.68 19.46 19.41 19.39	 	20.59 20.51 20.73 20.82 20.96	20.70 20.70 20.32 19.92 19.95	17.32 17.37 17.34 17.09 16.84	15.45 15.50 15.40 15.27 14.98	16.24 16.39 16.70 16.71 16.82	17.04 16.76 16.59 16.64 16.54	15.22 15.22 15.02 14.96 14.95
6 7 8 9 10	25.74 25.75 25.81 25.99 25.98	23.09 23.29 23.28 23.05 22.95	21.72 21.89 21.86 21.58 21.62	19.32 19.00 18.92 18.78 18.77	20.31 20.37 20.31 20.41 20.45	20.96 20.92 21.02 21.05 21.02	20.05 20.05 20.05 19.92 19.86	16.98 16.90 17.00 16.99 16.77	14.97 14.87 14.75 14.77 14.81	16.82 17.15 17.30 17.48 17.72	16.29 16.23 15.91 16.28 16.34	14.70 14.60 14.83 14.82 14.61
11 12 13 14 15	25.87 26.06 26.10 26.11 26.04	22.91 22.91 22.74 22.55 22.33	21.90 21.93 21.99 22.26 22.25	18.84 18.84 18.71 18.33 18.64	20.62 20.59 20.82 20.92 21.13	21.11 21.15 21.45 21.45 21.30	19.84 19.73 19.62 19.36 19.52	16.65 16.43 16.60 16.64 16.56	14.73 14.69 14.68 14.60 14.48	17.98 17.98 17.83 18.02 18.22	16.25 16.27 16.23 16.05 16.18	14.59 14.91 14.99 15.01 15.01
16 17 18 19 20	25.79 25.75 25.70 25.07 25.10	22.34 22.27 22.00 21.88 22.11	21.84 22.00 21.97 21.86 21.72	18.64 18.40 18.25 18.21 17.97	21.08 20.94 21.02 20.99 20.81	21.16 21.58 21.70 21.56 21.49	19.50 19.20 18.96 18.89 18.72	16.57 16.61 16.85 16.85 16.76	14.47 14.62 14.72 14.76 14.84	18.47 18.60 18.74 18.68 18.58	16.30 16.29 15.99 16.15 16.15	14.97 14.97 14.91 14.98 14.91
21 22 23 24 25	25.17 24.91 24.81 24.80 24.78	22.11 21.98 22.21 22.21 22.21	21.53 21.35 21.10 20.98 20.67	17.90 18.04 18.27 18.70 18.71	20.81 20.84 20.84 20.85 20.51	21.52 21.46 21.43 21.40 21.40	18.46 18.53 18.52 18.52 18.52	16.84 17.00 17.04 17.00 16.97	14.87 14.86 15.21 15.46 15.72	18.31 18.03 17.84 17.72	16.02 16.00 15.76 15.57 15.49	14.69 14.35 14.35 14.26 14.12
26 27 28 29 30 31	25.05 25.04 24.71 23.99 23.97 23.84	22.27 22.13 21.83 21.67 21.68	20.50 20.10 20.13 20.09 20.02 20.06		20.49 20.30 20.57 	21.26 21.06 21.15 21.20 21.04 20.57	18.38 18.20 17.95 17.82 17.42	16.77 16.35 15.96 15.57 15.50	15.72 15.90 16.08 16.10 16.15	17.63 17.79 17.83 17.67 17.38	15.39 15.20 15.14 15.16 15.17 15.10	13.91 14.01 14.00 14.03 14.03
LOW	26.18	23.63	22.26	20.05	21.13	21.70	20.70	17.37	16.15	18.74	17.04	15.22
		WATER LEV	EL, IN FEE	T BELOW	LAND-SURFA	ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FEE	T BELOW				EAR OCTOBI	ER 1997 T	O SEPTEMBI	ER 1998 AUG	SEP
DAY 1 2 3 4 5					DA	ILY LOWES	T VALUES					SEP 18.07 18.07 18.45 18.66 18.93
1 2 3 4	OCT 14.07 14.07 14.14 14.14	NOV 14.28 14.30 14.19 14.28	DEC 13.26 13.41 13.41 13.44	JAN 13.82 14.01 14.17 13.94	DA FEB 15.14 15.33 15.32 15.21	MAR 16.07 16.07 16.00 16.06	T VALUES APR 16.12 16.11 16.11 15.95	MAY 14.34 14.42 14.42 14.65	JUN 15.09 15.40 15.41 15.22	JUL 16.30 16.43 16.60 16.60	AUG 14.85 14.73 14.50 14.52	18.07 18.07 18.45 18.66
1 2 3 4 5 6 7 8 9	OCT 14.07 14.107 14.14 14.14 14.19 14.42 14.27 14.48 14.48	NOV 14.28 14.30 14.19 14.28 14.30 14.4 14.00 14.04	DEC 13.26 13.41 13.41 13.44 13.33 13.07 13.09 13.41	JAN 13.82 14.01 14.17 13.94 14.16 14.23 14.17 14.19 14.32	DA FEB 15.14 15.33 15.32 15.21 15.39 15.39 15.31 15.37 15.55	MAR 16.07 16.07 16.00 16.06 16.14 16.13 16.29 16.35 16.38	APR 16.12 16.11 16.11 15.95 15.65 15.58 15.50 15.46 15.39	MAY 14.34 14.42 14.65 14.62 14.70 14.69 14.63 14.58	JUN 15.09 15.40 15.41 15.22 15.08 14.94 14.78 14.53 14.60	JUL 16.30 16.43 16.60 16.60 16.61 16.85 16.95 16.59	AUG 14.85 14.73 14.50 14.52 14.51 14.86 15.19 15.62 16.06	18.07 18.07 18.45 18.66 18.93 19.13 19.16 19.22 19.37
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 14.07 14.107 14.14 14.14 14.19 14.42 14.27 14.48 14.48 14.45 14.10 14.18 14.32 14.32	NOV 14.28 14.30 14.19 14.28 14.30 14.24 14.04 14.02 14.00 13.81 13.58 13.45 13.45 13.41 13.59	DEC 13.26 13.41 13.41 13.44 13.33 13.07 13.09 13.41 13.62 13.66 13.58 13.53 13.49	JAN 13.82 14.01 14.17 13.94 14.16 14.23 14.17 14.32 14.36 14.34 14.41 14.39 14.41	DA FEB 15.14 15.33 15.32 15.21 15.39 15.39 15.31 15.37 15.55 15.60	MAR 16.07 16.07 16.00 16.06 16.14 16.13 16.29 16.35 16.38 16.59 16.58 16.15 16.36 16.35	APR 16.12 16.11 15.95 15.65 15.58 15.50 15.46 15.39 15.27 14.98 14.63 14.63 14.67	MAY 14.34 14.42 14.42 14.65 14.62 14.70 14.69 14.63 14.58 14.37	JUN 15.09 15.40 15.41 15.22 15.08 14.94 14.78 14.53 14.60 14.51 14.66 14.80 14.73	JUL 16.30 16.43 16.60 16.61 16.85 16.95 16.95 16.59 16.34 16.19 16.03	AUG 14.85 14.73 14.50 14.52 14.51 14.86 15.19 15.62 16.06 16.39 16.45 16.55 16.55	18.07 18.07 18.45 18.66 18.93 19.13 19.16 19.22 19.37 19.66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 14.07 14.14 14.14 14.19 14.42 14.27 14.48 14.48 14.45 14.10 14.18 14.32 14.34 14.59 14.59	NOV 14.28 14.30 14.19 14.28 14.30 14.24 14.04 14.02 14.00 13.81 13.58 13.45 13.45 13.59 13.59 13.32 13.33 13.33	DEC 13.26 13.41 13.41 13.44 13.34 13.07 13.09 13.41 13.62 13.66 13.58 13.53 13.49 13.53	JAN 13.82 14.01 14.17 13.94 14.16 14.23 14.17 14.19 14.32 14.36 14.34 14.41 14.39 14.46 14.39	DA FEB 15.14 15.33 15.32 15.21 15.39 15.39 15.37 15.55 15.60 15.62 15.62 15.62 15.62 15.62 15.65 15.65 15.65	MAR 16.07 16.07 16.00 16.06 16.14 16.13 16.29 16.35 16.38 16.59 16.58 16.15 16.36 16.35 16.36 16.35 16.36 16.35	APR 16.12 16.11 15.95 15.65 15.58 15.50 15.46 15.39 15.27 14.98 14.63 14.63 14.64 14.73 14.64	MAY 14.34 14.42 14.42 14.65 14.62 14.70 14.69 14.63 14.58 14.37 14.31 14.23 14.07 14.13 14.11 14.11 14.10 14.28 14.40	JUN 15.09 15.40 15.41 15.22 15.08 14.94 14.78 14.53 14.60 14.51 14.66 14.80 14.73 14.79 15.11 15.07 14.96	JUL 16.30 16.43 16.60 16.60 16.61 16.85 16.95 16.95 16.59 16.34 16.19 16.03 15.96 16.14 16.05 15.96 15.96 15.96	AUG 14.85 14.73 14.50 14.52 14.51 14.86 15.19 15.62 16.06 16.39 16.45 16.55 16.55 16.59 16.62 16.85 16.96 16.97 17.15	18.07 18.45 18.66 18.93 19.13 19.16 19.22 19.37 19.66 19.82 19.79 19.62 19.40 19.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 14.07 14.07 14.14 14.14 14.19 14.42 14.27 14.48 14.45 14.10 14.18 14.32 14.34 14.59 14.59 14.65 14.60 14.17 14.40	NOV 14.28 14.30 14.19 14.28 14.30 14.24 14.04 14.02 14.00 13.81 13.58 13.45 13.45 13.45 13.32 13.32 13.32 13.32 13.32 13.32 13.32	DEC 13.26 13.41 13.41 13.44 13.34 13.07 13.09 13.41 13.62 13.66 13.53 13.49 13.53 13.47 13.65 13.81 13.71 13.62 13.66 13.77	JAN 13.82 14.01 14.17 13.94 14.16 14.23 14.32 14.36 14.32 14.36 14.39 14.46 14.39 14.62 14.72 14.62 14.76 14.77 14.80 14.90 14.77	DA FEB 15.14 15.33 15.32 15.21 15.39 15.39 15.37 15.55 15.60 15.62 15.62 15.62 15.62 15.62 15.65 15.80 15.81 15.78	ILY LOWES MAR 16.07 16.07 16.00 16.06 16.14 16.13 16.29 16.35 16.38 16.59 16.58 16.35 16.36 16.35 16.36 16.35 16.36 16.35 16.37 16.48	T VALUES APR 16.12 16.11 15.95 15.65 15.58 15.50 15.46 15.39 15.27 14.98 14.63 14.69 14.67 14.64 14.76 14.73 14.69 14.58 14.62 14.39 14.39 14.39 14.39	MAY 14.34 14.42 14.42 14.65 14.62 14.70 14.69 14.63 14.58 14.37 14.31 14.23 14.07 14.13 14.11 14.11 14.10 14.28 14.40 14.42 14.46 14.41 14.34 14.36	JUN 15.09 15.40 15.41 15.22 15.08 14.94 14.78 14.53 14.60 14.51 14.66 14.80 14.73 14.79 15.11 15.07 14.96 14.80 14.70 14.58	JUL 16.30 16.43 16.60 16.61 16.85 16.95 16.95 16.34 16.19 16.03 15.96 16.14 16.05 15.96 16.06 16.14	AUG 14.85 14.73 14.50 14.52 14.51 14.86 15.19 15.62 16.06 16.39 16.45 16.55 16.55 16.55 16.55 16.97 17.15 17.18 17.14 16.98 16.91 17.10	18.07 18.45 18.66 18.93 19.13 19.16 19.22 19.37 19.66 19.82 19.79 19.62 19.40 19.09 18.66 18.64 18.83 18.94 18.87 18.74 18.74 18.75 18.70 18.30

SITE NUMBER FROM LOCATION MAP.—32.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N7E17BAAD.

SITE ID (STATION NUMBER).—440818103180801.

OTHER IDENTIFIER.—PE-84B and Dog Track.

LOCATION.—Lat 44°08′19.8″, long 103°18′09.9″, in SE¹/4NE¹/4NE¹/4NW¹/4 sec. 17, T. 2 N., R. 7 E., Hydrologic Unit 10120111, at Blackhawk. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observationó well, 560 ft deep with 510 ft of 5-in. steel casing; open hole from 510 to 560 ft.

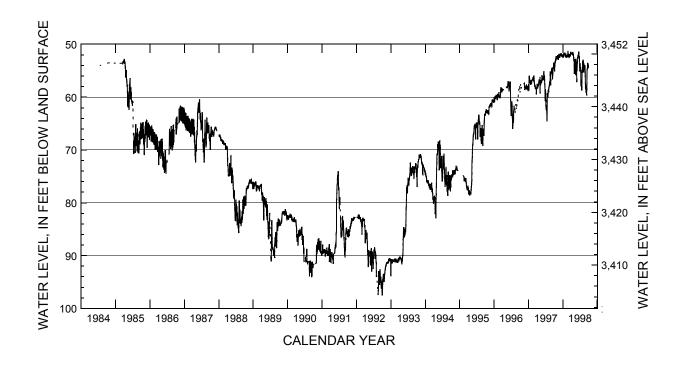
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,501.8 ft above sea level. Measuring point: Top of steel casing, 1.40 ft above land-surface datum.

REMARKS.—Records good. Water levels affected by pumping of nearby well.

PERIOD OF RECORD.—July 1984 to September 1998.

EXTREMES.—Highest daily water level, 51.25 ft below land-surface datum, Feb. 25, 1998; lowest daily water level, 97.55 ft below land-surface datum, Oct. 3, 1992.



WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 75.49 77.14 74.01 73.41 75.67 78.35 66.79 65.38 64.61 67.86 ___ ___ 77.36 2 75.37 74.06 73.26 75.77 78.11 66.69 65.71 64 73 68.80 75.41 77.36 77.68 75.16 74.07 73.26 ------65.08 66.35 65.76 68.80 75.67 ___ ___ 5 74 85 74 58 73 66 75 93 77 22 77 58 65 79 64 73 65 27 69 24 75.42 73.50 75.94 77.69 65.57 74.58 76.93 65.55 66.26 68.01 ___ ___ 75.73 74.24 73.92 75.96 78.41 77.01 65.49 65.63 66.89 66.65 65.51 8 74.64 74.11 73.78 75.96 78.14 76.84 67.50 65.36 65.98 74.76 73.89 75.56 78.36 76.66 65.20 65.81 66.49 66.21 ---10 75.13 73.82 ------75.44 78.36 76.43 65.31 66.18 66.68 66.76 11 75 13 74.04 75.44 78 19 75 79 65.37 66.84 66 92 66.76 73.94 74.12 ---------76.12 76.12 77.97 77.96 74.48 72.18 65.30 65.35 67.18 68.00 66.13 66.57 12 75.03 66.92 13 74.99 66.20 14 75.13 74 52 ___ ___ ___ 76.21 77.67 72.47 65.35 66.50 65 86 66.35 ------74.99 15 75.09 74.53 76.86 77.78 72.12 65.75 65.52 66.27 66.23 16 74 71 74.24 ___ ___ 75.15 76.79 77.67 71.40 65.74 65.25 66.87 66.54 73.75 73.70 ------76.78 77.18 77.98 65.89 66.72 67.25 67.25 17 74.83 75.28 70.53 65.11 67.74 18 74.56 78.61 65.09 68.35 19 74 56 73 56 ___ ___ 75 78 77.23 78 55 69 81 67.16 64.36 67.33 65.21 ---2.0 74.13 73.81 ---75.93 77.21 78.12 69.05 67.79 64.12 68.09 64.67 73.85 73.75 75.58 77.34 77.87 69.05 68.01 64.14 68.75 73.75 22 ------77.34 68.72 74.73 75.52 78.05 68.86 65.85 63.89 64.02 23 73.69 77.20 78.06 65.24 63.45 63.38 74.80 68.85 24 74.73 73.61 ___ ---75.28 77.50 78.07 68.35 65.06 63.45 67.92 63.42 ___ 25 ---74.30 73.19 75.40 77.65 78.05 68.08 64.99 63.31 67.01 63.26 26 73.97 73.00 ___ ---75.77 77.59 78.05 67 52 65.15 63.46 66.44 63.20 77.46 77.46 ___ ---27 74.30 73.68 75.77 78.26 67.40 65.45 63.60 66.74 63.22 28 74.42 73.60 ___ ___ 75.55 66.98 65.45 66.74 63.22 78.38 77.34 77.08 67.09 67.11 29 74.44 73.58 ------78.23 64.90 64.61 65.30 63 09 ------30 74.48 65.05 66.28 73.65 78.35 65.14 63.19 66.66 31 74.31 76.79 66.88 65.05 75.73 75.93 77.65 LOW 74.58 73.92 78.61 78.35 68.01 68.00 68.85 69.24 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT DEC FEB SEP NOV JAN MAR APR MAY JUN JUL AUG 62 84 61 33 60.74 59 84 59.84 58 67 ___ 57 20 63 15 e61 58 ___ 61.28 60.74 63.49 62.84 60.10 59.77 58.69 ---57.21 63.47 63.57 63.18 62.78 60.29 60.32 60.09 58.60 ---57.21 ------4 62 69 62.70 61.58 60.34 60 14 60.21 58 49 ___ 57.11 62 86 --e60.40 5 57.22 e62.18 62.94 63.23 61.36 60.39 60.57 60.15 58.69 62.60 6 62 94 63 25 60 42 60 08 60 14 57 20 61 30 61 23 ___ ___ ___ 62.69 63.01 61.07 60.74 60.13 ------57.59 ---59.65 61.62 58.51 63.07 61.45 60.78 59.55 61.22 ___ ___ 62.85 62.13 61.62 60.38 59.39 59.89 ------58.91 60.86 e62.27 e60.79 10 61.85 61.74 59.87 62.32 60.04 59.98 58.72 62.25 61.79 60.04 60.19 61.26 11 62.48 61.70 59.34 58.30 ---------62.45 61.73 59.92 60.04 59.22 61.52 12 61.10 58.31 13 62.61 61.99 59.78 59.70 58.99 ___ ___ 58.27 61.88 ___ ___ 60.60 58.17 57.74 14 62.78 61.72 60.58 60.21 59.56 58.63 ------63.51 15 63.84 61.64 60.25 59.63 58.17 e62.93 e59.76 59.78 16 62.79 61.52 60.43 59.83 58.38 ------57.98 64.42 ---62.74 60.84 58.58 61.45 57.97 59.93 59.67 65.32 18 62.53 61.59 60.84 60.30 59.56 58.66 ___ 58.02 58.17 65.98 ___ ___ 59.95 19 62.95 61.86 60.61 59.58 58.55 ---58.28 57.56 65.21 20 61.86 58.17 57.63 64.93 e61.35 e58.55 59.61 21 61.83 60.66 59.84 59.60 58.22 63.26 62.68 58.42 ---57.41 ___ 57.07 62.83 61.45 60.66 60.21 59.30 58.23 58.22 63.50 23 63.03 61.58 60.81 60.19 59.04 58 48 ___ 58.20 57.62 63.69 ___ ___ 24 61.29 60.87 59.80 59.09 58.04 57.99 64.83 62.90 59.41 ---64.81 e62.22 e58.49 26 62.59 61.36 60.97 59.64 59.73 58.66 57.92 60.49 62.78 ---27 62.49 61.57 60.97 60.01 59.94 58.50 ---57.84 64.50 ------28 62.67 61.59 60.84 59.73 59.94 58.43 57.46 60.89 63.80 ------29 63.05 61.37 61.01 60.11 59.92 58.58 ---57.20 61.58 62.63 ---30 63.05 61.14 60.84 60.21 58.38 ___ 56.97 e62.50 e57.94 31 62.52 60.41 60.14 ---58.48 ---57.11 e62.31 e61.59 LOW 63.49 63.25 61.74 60.78 60.57 60.21 58.69 58.28 62.53 65.98 62.93 60.79

146

e Estimated

SITE NUMBER 32—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITI. ATIG SEP 56.27 58.29 58.14 57.26 58.16 56.83 56.74 60 78 58.61 55.55 2 ___ ---58.12 58.11 57.31 56.20 58.23 56.78 56.75 58.48 59.06 55.29 ---57.42 57.41 ---56.97 57.93 57.50 56.85 56.19 58.04 57.58 59.19 58.95 55.07 58.09 ___ 58.43 57.13 56.18 59.55 59.10 55.14 5 e59.08 ---57.95 58.75 57.02 57.25 57.76 59.18 56.38 60.52 58.37 54.65 6 58.24 ___ ___ 58.11 57.12 56.90 57.60 58.16 57.07 56.83 56.75 56.70 61.95 58.08 55.05 ---56.92 57.64 56.28 8 58.46 58.17 61.50 58.08 55.02 56.86 10 e57.56 ___ 57.81 56.03 56.83 57.94 57.94 57.66 56.71 62.30 57.91 54.50 57.99 57.97 57.55 57.77 57.49 12 ___ ___ 56.57 57.79 57.89 57.14 55.51 62.29 54.38 13 ------56.46 57.87 57.74 57.81 57.36 55.54 61.59 55.71 58.48 56.52 56.58 56.91 62.13 15 e58.33 ---58.32 57.24 56.73 58.01 57.89 57.25 55.25 62.50 57.08 56.31 16 58.48 56 97 56 59 58.36 57.25 56 15 62.95 57.31 55 85 57.31 57.15 55.48 17 ------58.56 56.99 56.38 58.30 57.57 57.24 56.40 64.28 ___ 58.38 56.38 56.21 57.50 57.12 55.57 18 57.00 58.35 56.40 64.57 e57.35 57.60 56.16 19 58.24 57.19 58.35 56.71 62.12 56.93 54.72 20 ___ 58.25 57.88 56.32 58.30 57.65 57.03 55.95 60.86 57.09 54.69 56.84 21 58.08 58.00 22 ___ 57.97 58.46 57.39 56.56 58.44 56.95 57.10 56.82 59.36 55.22 54.55 56.69 57.02 56.80 56.71 57.58 57.63 23 ---58.63 58.41 57.24 58.25 56.89 59.51 55.23 54.25 58.49 58.20 57.31 55.91 56.55 24 58.46 59.43 54.28 25 ___ 58.63 58.31 57.40 56.38 58.42 56.67 55.82 58.06 59.21 57.47 54.14 26 58.39 57.92 56.13 55.99 58.73 57.74 2.7 ---58.34 58.36 55.93 59.48 57.37 56.03 59.03 59.93 55.67 57.69 53.47 28 ___ 58 26 58 85 57 29 56 15 58 51 57.13 56 30 60.10 59 97 55 67 53.62 ---56.66 60.39 53.75 29 58.00 58.62 56.90 58.40 56.59 59.22 55.39 ---30 ___ 58.09 58.48 56.76 ---58.16 56.85 56.39 60.63 58.90 55.31 53.75 31 ___ 58.42 56.96 ___ 58.20 56.74 58.75 55.45 LOW 59.08 58.63 58.85 58.75 57.42 59.48 58.23 59.18 60.63 64.57 59.10 56.62 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES OCT JUN DAY NOV DEC JAN FEB MAR APR MAY JUL AUG SEP 53.87 52.39 52.41 51.91 52.36 52.39 51.64 52.86 54.87 53.44 52.83 52.14 52.36 52.27 54.07 54.91 55.12 53.20 2 53.99 52.19 51.68 58.08 52.48 52.60 51.90 51.74 55.59 54.55 3 54.13 52.02 52.36 52.01 51.86 54.11 54.83 53.08 58.54 51.78 52.46 51.97 53.51 52.91 54.39 51.63 53.59 58.69 55.07 52.67 52.17 52.45 52.03 52.03 51.76 54.11 53.51 54.29 53.03 59.18 55.07 52.05 52.16 52.14 54.11 53.08 6 52.42 52.12 51.69 53.14 54.10 52.04 51.85 51.86 52.21 52.51 51.72 53.51 53.21 53.32 54.70 58.88 52.19 52.65 52.52 52.42 51.66 51.58 53.46 54.05 52.47 52.36 8 54.10 51.90 51.89 52.59 54.70 53.68 58.85 51.81 54.35 53.64 51.79 52.47 55.22 58.41 10 52.30 52.30 51.86 52.47 54.83 53.64 52.40 51.83 52.04 52.98 55.22 59.58 11 53 34 52 14 52.02 52 33 52 24 52.09 51 73 52 78 52 02 55 21 54 32 12 51.96 52.18 51.87 51.59 52.97 57.13 53.61 53.37 53.39 52.25 52.41 51.92 52.21 52.20 52.11 51.99 51.74 53.04 53.56 57.82 57.95 53.97 53.97 13 51.90 52.04 52.22 58.61 52.02 51.96 52.32 14 56.22 15 53.09 52.84 51.87 51.85 52.38 52.36 51.53 55.44 52.13 56.79 54.61 51.58 52.85 52.84 51.86 51.74 52.47 52.14 55.60 52.11 56.66 54.96 16 54.82 51.98 52.02 55.57 56.84 54.77 18 53.11 52.51 51.91 51.95 52.12 52.17 51.87 55.17 51.70 57.13 54.66 54.69 52.46 52.14 51.74 52.07 52.19 51.76 54.41 51.38 58.21 54.42 19 53.06 54.62 20 53.01 52.17 51.96 51.95 52.01 51.82 52.18 53.43 51.52 58.63 54.62 54.45 51.88 52.04 54.16 21 52.97 52.23 52.20 52.80 52.25 58.65 51.82 51.92 22 52.42 52.11 52.24 52.21 52.19 53.94 52.44 51.63 52.73 52.66 58.55 52.38 52.49 52.33 52.33 52.11 51.79 52.08 51.72 51.74 52.05 52.20 52.68 54.77 54.77 23 52.21 51.56 53.14 58.21 53.70 52.58 51.91 53.36 56.01 53.52 24 25 52.81 52.34 52.23 51.95 51.25 51.45 52.60 54.02 52.44 54.95 54.75 54.21 26 52.70 52.23 52.24 51.89 51.81 51.59 52.39 54.38 52.75 54.83 54.28 52.24 52.65 51.61 54.92 54.51 28 52.52 52.18 52.13 52.05 51.91 51.65 53.18 54.46 53.99 55.36 55.94 54.38 51.99 52.12 56.95 57.14 57.45 29 52.25 52.25 ---51.79 53.12 54.47 54.43 54.08 52.36 52.43 ---51.79 53.70 58.38 30 52.44 53.21 54.44 53.81 52.23 ---51.86 58.38 31 52.30 51.89 56.71 53.16 55.07 52.43 52.46 52.52 52.59 53.21 57.14 54.91 58.65 58.38 LOW 52.84 59.59

e Estimated

SITE NUMBER FROM LOCATION MAP.—33.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N7E13DDAA.

SITE ID (STATION NUMBER).—440746103124201.

OTHER IDENTIFIERS.—PE-95E and West Nike Rd.

LOCATION.—Lat 44°07′46.0″, long 103°12′41.8″, in NE¹/4NE¹/4SE¹/4SE¹/4SE¹/4 sec. 13, T. 2 N., R. 7 E., Hydrologic Unit 10120111, about 2 mi north of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Inyan Kara.

WELL CHARACTERISTICS.—Drilled observation well, 1,448 ft deep with 1,418 ft of 5.5-in. steel casing; 3-in. PVC, 18-slot well screen from 1,418 to 1,448 ft.

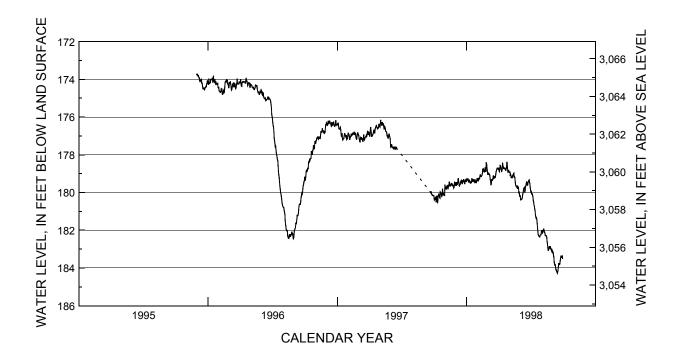
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,238.9 ft above sea level. Measuring point: Top of steel casing, 1.5 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—November 1995 to September 1998.

EXTREMES.—Highest daily water level, 173.72 ft below land-surface datum, Nov. 30 and Dec. 1, 1995. Lowest daily water level, 184.28 ft below land-surface datum, Sept. 15, 1998.



SITE NUMBER 33—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			100 00	154.05	174 60	104 14	154 10	1.74 00	154 50	106 10	100 70	100.00
1 2			173.72 173.76	174.25 174.26	174.60 174.61	174.14 174.19	174.18 174.01	174.29 174.29	174.73 174.81	176.12 176.30	180.79 180.80	182.02 181.96
3			173.84	173.96	174.66	174.16	174.21	174.31	174.84	176.45	180.93	181.90
4			173.76	174.19	174.69	174.14	174.36	174.38	174.70	176.54	181.05	181.86
5			173.85	174.22	174.69	174.28	174.37	174.44	174.73	176.82	181.17	181.60
6			173.92	174.20	174.64	174.42	174.20	174.45	174.90	177.12	181.46	181.69
7			173.92	174.18	174.52	174.57	174.13	174.42	174.99	177.27	181.70	181.58
8			174.08	173.98	174.56	174.54	174.16	174.42	174.99	177.45	181.82	181.37
9 10			174.12 174.09	174.03 174.00	174.48 174.78	174.42 174.26	174.16 174.11	174.52 174.53	175.02 175.04	177.57 177.53	181.96 182.01	181.22 181.24
10			1/4.09	174.00	1/4.70	174.20	1/4.11	1/4.55	173.04	177.55	102.01	101.24
11			174.03	174.01	174.80	174.23	174.12	174.54	175.00	177.75	182.04	181.22
12 13			174.05	174.01 173.91	174.78	174.20 174.39	174.12 174.14	174.46 174.44	175.13 175.11	177.91 178.01	181.99 182.28	181.12 180.95
14			173.96 174.20	174.11	174.60 174.56	174.39	174.14	174.44	175.11	178.01	182.38	180.72
15			174.20	174.07	174.73	174.40	174.20	174.32	175.07	178.25	182.42	180.63
1.0			174 24	172 00	174 64	174 00	17/ 1/	174 20	175 04	170 20	100 42	100 (1
16 17			174.34 174.50	173.80 174.14	174.64 174.43	174.22 174.25	174.14 173.92	174.32 174.38	175.04 175.00	178.32 178.58	182.43 182.34	180.61 180.63
18			174.50	174.16	174.20	174.36	173.97	174.35	174.91	178.90	182.21	180.63
19			174.50	174.10	174.09	174.48	174.09	174.48	175.02	179.07	182.34	180.46
20			174.43	174.00	174.11	174.44	174.09	174.63	174.98	179.22	182.32	180.27
21			174.53	174.13	174.16	174.27	174.22	174.69	175.06	179.42	182.21	180.16
22			174.55	174.22	174.01	174.22	174.33	174.66	175.00	179.67	182.28	180.04
23			174.45	174.16	174.09	173.96	174.27	174.68	175.02	179.82	182.23	180.09
24 25			174.43 174.42	174.22 174.26	174.03 174.22	174.22 174.25	174.18 174.18	174.79 174.80	175.07 175.09	180.00 180.06	182.15 182.08	180.00 179.79
23			1/4.42	174.20	1/4.22	174.23	1/4.10	1/4.00	173.09	100.00	102.00	113.13
26			174.33	174.22	174.20	174.22	174.18	174.71	175.18	180.20	182.20	179.62
27			174.41	174.25	174.33	174.24 174.24	174.19 174.42	174.63	175.33	180.34	182.18	179.56
28 29		173.77	174.22 174.20	174.22 174.44	174.44 174.44	174.24	174.42	174.66 174.69	175.55 175.87	180.52 180.63	182.30 182.44	179.43 179.40
30		173.72	174.05	174.46		174.16	174.26	174.56	175.97	180.73	182.39	179.20
31			174.13	174.44		174.19		174.60		180.76	182.24	
LOW		173.77	174.55	174.46	174.80	174.57	174.42	174.80	175.97	180.76	182.44	182.02
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOR	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				EAR OCTOE	ER 1996 T JUN	O SEPTEMB	ER 1997 AUG	SEP
	OCT	NOV	DEC	JAN	D <i>l</i> FEB	AILY LOWES	ST VALUES APR	MAY	JUN	JUL	AUG	
DAY 1 2					DA	AILY LOWES	ST VALUES					SEP
1 2 3	OCT 179.21 179.36 179.18	NOV 177.26 177.26 177.14	DEC 176.31 176.36 176.44	JAN 176.36 176.32 176.32	FEB 176.91 176.91 176.99	MAR 176.96 176.96 177.10	APR 176.96 177.03 176.96	MAY 176.53 176.40 176.15	JUN 177.60 177.56 177.44	JUL 	AUG 	
1 2 3 4	OCT 179.21 179.36 179.18 178.95	NOV 177.26 177.26 177.14 177.09	DEC 176.31 176.36 176.44 176.42	JAN 176.36 176.32 176.32 176.44	FEB 176.91 176.91 176.99 177.18	MAR 176.96 176.96 177.10 177.20	APR 176.96 177.03 176.96 176.61	MAY 176.53 176.40 176.15 176.36	JUN 177.60 177.56 177.44 177.52	JUL 	AUG 	
1 2 3	OCT 179.21 179.36 179.18	NOV 177.26 177.26 177.14	DEC 176.31 176.36 176.44	JAN 176.36 176.32 176.32	FEB 176.91 176.91 176.99	MAR 176.96 176.96 177.10	APR 176.96 177.03 176.96	MAY 176.53 176.40 176.15	JUN 177.60 177.56 177.44	JUL 	AUG 	
1 2 3 4 5	OCT 179.21 179.36 179.18 178.95 178.84	NOV 177.26 177.26 177.14 177.09 177.09	DEC 176.31 176.36 176.44 176.42 176.29	JAN 176.36 176.32 176.32 176.44 176.62	FEB 176.91 176.91 176.99 177.18 177.05	MAR 176.96 176.96 177.10 177.20 177.31	APR 176.96 177.03 176.96 176.61 176.53	MAY 176.53 176.40 176.15 176.36 176.27	JUN 177.60 177.56 177.44 177.52 177.61	JUL 	AUG	
1 2 3 4 5	OCT 179.21 179.36 179.18 178.95 178.84	NOV 177.26 177.26 177.14 177.09 177.09	DEC 176.31 176.36 176.44 176.42 176.29 176.20 176.35	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61	FEB 176.91 176.91 176.99 177.18 177.18	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62	JUL	AUG	
1 2 3 4 5	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17	DEC 176.31 176.36 176.44 176.42 176.29 176.20 176.35 176.35	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59	FEB 176.91 176.99 177.18 177.05 177.05 176.98	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.32 177.13	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66	JUL 	AUG	
1 2 3 4 5	OCT 179.21 179.36 179.18 178.95 178.84	NOV 177.26 177.26 177.14 177.09 177.09	DEC 176.31 176.36 176.44 176.42 176.29 176.20 176.35	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61	FEB 176.91 176.91 176.99 177.18 177.18	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17 177.05	DEC 176.31 176.36 176.44 176.42 176.29 176.20 176.35 176.35 176.21	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66	FEB 176.91 176.99 177.18 177.05 177.05 176.88 176.98	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.13 177.09 177.07	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.57	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.88 178.74 178.76 178.73	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17 177.05 177.05	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66	FEB 176.91 176.91 176.99 177.18 177.05 177.05 176.98 176.88 176.98	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.13 177.17	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.33	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.57	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17 177.05	DEC 176.31 176.36 176.44 176.42 176.29 176.20 176.35 176.35 176.21	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66	FEB 176.91 176.99 177.18 177.05 177.05 176.88 176.98	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.13 177.09 177.07	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.57	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.38 178.38	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17 177.05 177.12 177.14 177.14	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.36 176.36 176.36	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66 176.84 177.01 177.03	FEB 176.91 176.91 176.99 177.18 177.05 177.05 176.98 176.88 176.98 176.98 176.85 176.85 176.85	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.17 177.15 177.26 177.26 177.31	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 176.96 176.97 176.92 176.76 176.76 176.76	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.33 176.66 176.46	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.66 177.68 177.68 177.56 177.56	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.05 177.05	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.29 176.36	JAN 176.36 176.32 176.44 176.62 176.64 176.59 176.54 176.54 176.84 177.01	FEB 176.91 176.99 177.18 177.05 176.98 176.88 176.98 176.98	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.13 177.79 177.17 177.17	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97 176.92 176.95	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.49 176.26 176.39 176.42 176.31 176.65	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.56 177.66 177.67 177.68	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.38 178.38	NOV 177.26 177.26 177.14 177.09 177.09 177.03 177.15 177.17 177.05 177.12 177.14 177.14	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.36 176.36 176.36	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66 176.84 177.01 177.03	FEB 176.91 176.91 176.99 177.18 177.05 177.05 176.98 176.88 176.98 176.98 176.85 176.85 176.85	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.17 177.15 177.26 177.26 177.31	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 176.96 176.97 176.92 176.76 176.76 176.76	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.33 176.66 176.46	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.66 177.68 177.68 177.56 177.56	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.26 178.30	NOV 177.26 177.26 177.14 177.09 177.09 177.15 177.15 177.17 177.05 177.12 177.14 177.14 177.14 176.98 176.75	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.22 176.36 176.47 176.49 176.47	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 176.66 177.01 177.03 176.86 177.17	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.98 176.98 176.95 176.76 176.76 176.76 176.77 176.77	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.13 177.15 177.07	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97 176.92 176.85 176.76 176.76 176.76	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.33 176.51 176.66 176.46 176.53	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.57 177.66 177.57 177.66 177.57 177.64	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.30 178.31	NOV 177.26 177.26 177.26 177.14 177.09 177.03 177.15 177.05 177.05 177.12 177.14 176.98 176.75 176.75	DEC 176.31 176.36 176.42 176.29 176.20 176.35 176.35 176.21 176.21 176.29 176.42 176.47 176.49	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.59 176.54 176.66 176.84 177.01 177.03 176.86 177.17	FEB 176.91 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.95 176.85 176.85 176.85 176.87 176.90 176.78	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.17 177.17 177.17 177.17 177.18 177.26 177.31 177.18 176.92 177.13 177.18	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97 176.92 176.85 176.76 176.83 176.76 176.83	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.49 176.33 176.51 176.66 176.53 176.58 176.74	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.66 177.56 177.68 177.61 177.56 177.72 177.64	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.36 178.30 178.21 178.19 178.19	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.15 177.05 177.12 177.05 177.14 176.98 176.75 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.22 176.32 176.42 176.49 176.47 176.44 176.44	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.13	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.88 176.98 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.95	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.15 177.26 177.31 177.18 176.92 177.13 177.18 176.92 177.11	APR 176.96 177.03 176.96 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.85 176.76 176.83 176.84 176.76 176.58 176.76 176.58 176.76	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.33 176.51 176.66 176.53 176.53 176.53	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.68 177.61 177.66 177.61 177.66 177.62 177.66	JUL.	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.30 178.31	NOV 177.26 177.26 177.26 177.14 177.09 177.03 177.15 177.05 177.05 177.12 177.14 176.98 176.75 176.75	DEC 176.31 176.36 176.42 176.29 176.20 176.35 176.35 176.21 176.21 176.29 176.42 176.47 176.49	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.59 176.54 176.66 176.84 177.01 177.03 176.86 177.17	FEB 176.91 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.95 176.85 176.85 176.85 176.87 176.90 176.78	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.17 177.17 177.17 177.17 177.18 177.26 177.31 177.18 176.92 177.13 177.18	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.97 176.92 176.85 176.76 176.83 176.76 176.83	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.49 176.33 176.51 176.66 176.53 176.58 176.74	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.62 177.66 177.66 177.56 177.68 177.61 177.56 177.72 177.64	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.26 178.30 178.19 177.80 177.86	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.17 177.05 177.12 177.05 177.12 177.65 177.14 176.98 176.75 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.29 176.36 176.42 176.44 176.42 176.44 176.48	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.01 176.85	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.95 176.95 176.95 176.95 176.95 176.85 176.95 176.85 176.85 176.91	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.26 177.31 177.18 176.92 177.08 177.08	APR 176.96 177.03 176.96 176.96 176.61 176.53 176.74 176.92 177.05 176.92 177.05 176.96 176.83 176.84 176.76 176.83 176.84 176.76 176.83	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.33 176.51 176.51 176.66 176.53 176.53 176.58 176.74 176.75 176.75 176.75 176.81	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.61 177.66 177.61 177.66 177.62 177.67	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.38 178.26 178.30 178.19 177.86	NOV 177.26 177.26 177.26 177.14 177.09 177.03 177.15 177.05 177.12 177.14 177.14 176.78 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.31 176.21 176.22 176.36 176.47 176.49 176.42 176.42 176.42 176.42 176.42 176.42 176.38	JAN 176.36 176.32 176.44 176.62 176.64 176.61 176.59 176.54 177.03 177.03 177.13 177.13 177.01	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.88 176.98 176.95 176.95 176.85 176.85 176.85 176.85 176.85 176.85 176.85 176.85	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.15 177.15 177.18 176.92 177.18 176.92 177.18 177.26 177.18 177.26 177.18	APR 176.96 177.03 176.96 176.61 176.53 176.74 176.92 177.05 176.96 176.76 176.76 176.76 176.76 176.76 176.76 176.83	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.66 176.53 176.51 176.68 176.77 176.81 177.02 176.97	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.68 177.61 177.66 177.64 177.67 177.67	JUL	AUG	 179.98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.26 178.30 178.19 177.80 177.86	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.17 177.05 177.12 177.05 177.12 177.65 177.14 176.98 176.75 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.29 176.36 176.42 176.44 176.42 176.44 176.48	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.01 176.85	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.95 176.95 176.95 176.95 176.95 176.85 176.95 176.85 176.85 176.91	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.26 177.31 177.18 176.92 177.08 177.08	APR 176.96 177.03 176.96 176.96 176.61 176.53 176.74 176.92 177.05 176.92 177.05 176.96 176.83 176.84 176.76 176.83 176.84 176.76 176.83	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.33 176.51 176.51 176.66 176.53 176.53 176.58 176.74 176.75 176.75 176.75 176.81	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.61 177.66 177.61 177.66 177.62 177.67	JUL	AUG	
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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	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.76 178.73 178.40 178.35 178.26 178.30 178.21 178.19 177.80 177.86 177.75 177.48 177.65	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.05 177.12 177.05 177.16 176.98 176.75 176.75 176.75 176.80 176.75 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.29 176.32 176.49 176.49 176.44 176.48 176.48 176.48 176.49 176.47 176.48	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.54 176.66 177.01 177.03 176.86 177.17 177.22 177.16 177.13 177.13 177.01 176.85 176.94 176.94 177.08	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.98 176.95 176.95 176.95 176.95 176.95 176.85 176.95 176.85 176.91 176.90 176.78 176.93 176.86	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.15 177.26 177.18 176.92 177.18 176.92 177.08 177.08	APR 176.96 177.03 176.96 176.96 176.61 176.53 176.92 177.05 176.92 176.92 176.85 176.76 176.83 176.84 176.76 176.83 176.84 176.76 176.85 176.76 176.67 176.85 176.76 176.80 176.92	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.33 176.51 176.66 176.53 176.58 176.74 176.75 176.77 176.81 177.02 176.97 177.05 177.14 177.07	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.61 177.66 177.61 177.62 177.64 177.67 177.62	JUL	AUG	
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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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.35 178.40 178.35 178.26 178.30 178.21 178.19 177.80 177.86 177.75 177.48 177.65 177.76 177.760 177.60 177.60	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.15 177.05 177.12 177.05 177.16 176.98 176.75 176.80 176.75 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.31 176.21 176.29 176.32 176.47 176.49 176.47 176.44 176.48 176.48 176.49 176.47 176.48 176.49 176.77 176.48 176.38 176.48 176.39	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.13 177.01 176.85 176.94 176.94 176.96 177.19	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.95 176.95 176.95 176.95 176.85 176.91 176.90 176.78 176.93 176.93 176.93 177.08	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.26 177.31 177.18 176.92 177.08 177.08 177.08 177.09 177.09 177.16 177.09 177.17 177.16 177.09 177.17 177.16 177.08 176.92	APR 176.96 177.03 176.96 177.03 176.96 176.61 176.74 176.92 176.92 176.97 176.92 176.85 176.76 176.83 176.84 176.76 176.58 176.76 176.54 176.54 176.54 176.59 176.59 176.59 176.59 176.51 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54 176.54	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.39 176.42 176.33 176.51 176.66 176.46 176.75 176.71 176.81 177.02 176.97 177.07 176.87 176.898 177.07	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.67 177.66 177.61 177.62 177.64 177.67 177.62 177.62	JUL	AUG	179.98 180.02 179.94 180.06 180.11 180.15 180.15
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 27 28 29 30 20 21 21 21 21 21 21 21 21 21 21 21 21 21	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.73 178.40 178.35 178.30 178.21 178.19 177.80 177.75 177.76 177.76 177.65 177.70 177.60 177.27 177.34	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.05 177.12 177.14 177.14 176.98 176.75 176.78 176.78 176.78 176.78 176.78 176.83 176.83 176.83 176.83 176.83 176.83 176.83	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.21 176.21 176.32 176.32 176.36 176.47 176.49 176.44 176.42 176.49 176.44 176.42 176.47 176.48 176.49 176.49 176.49 176.41 176.38	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.61 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.01 176.85 176.94 177.08	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.95 176.95 176.95 176.95 176.95 176.95 176.95 176.85 176.91 176.90 176.78 176.93 176.93 177.08 177.08 177.08 177.08 177.08 177.08	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.18 176.92 177.18 176.92 177.08 177.09 177.17 177.15 177.26 177.31 177.18	APR 176.96 177.03 176.96 176.96 176.61 176.53 176.74 176.92 177.05 176.97 176.92 176.85 176.76 176.83 176.84 176.76 176.52 176.48 176.52 176.54 176.54 176.54 176.54 176.54 176.54 176.55 176.66 176.57	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.40 176.26 176.39 176.42 176.33 176.51 176.53 176.58 176.74 176.75 176.75 176.77 176.81	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.68 177.61 177.68 177.61 177.62 177.64 177.67 177.62 177.67	JUL	AUG	179.98 180.02 179.94 180.15 180.15 180.16 180.16
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 179.21 179.36 179.18 178.95 178.84 178.88 178.74 178.76 178.35 178.40 178.35 178.26 178.30 178.21 178.19 177.80 177.86 177.75 177.48 177.65 177.76 177.760 177.60 177.60	NOV 177.26 177.26 177.14 177.09 177.03 177.15 177.15 177.05 177.12 177.05 177.16 176.98 176.75 176.80 176.75 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78 176.78	DEC 176.31 176.36 176.44 176.42 176.29 176.35 176.35 176.31 176.21 176.29 176.32 176.47 176.49 176.47 176.44 176.48 176.48 176.49 176.47 176.48 176.49 176.77 176.48 176.38 176.48 176.39	JAN 176.36 176.32 176.32 176.44 176.62 176.64 176.59 176.54 177.03 176.86 177.17 177.22 177.16 177.13 177.13 177.01 176.85 176.94 176.94 176.96 177.19	FEB 176.91 176.99 177.18 177.05 177.05 176.98 176.98 176.95 176.95 176.95 176.95 176.85 176.91 176.90 176.78 176.93 176.93 176.93 177.08	MAR 176.96 176.96 177.10 177.20 177.31 177.32 177.09 177.17 177.15 177.26 177.31 177.18 176.92 177.08 177.08 177.08 177.09 177.09 177.16 177.09 177.17 177.16 177.09 177.17 177.16 177.08 176.92	APR 176.96 177.03 176.96 177.03 176.96 176.61 176.74 176.92 176.92 176.97 176.92 176.85 176.76 176.83 176.84 176.76 176.52 176.48 176.54 176.54 176.54 176.59 176.59 176.59 176.59 176.60	MAY 176.53 176.40 176.15 176.36 176.27 176.45 176.39 176.42 176.33 176.51 176.66 176.46 176.75 176.71 176.81 177.02 176.97 177.07 176.87 176.898 177.07	JUN 177.60 177.56 177.44 177.52 177.61 177.63 177.66 177.66 177.66 177.67 177.66 177.61 177.62 177.64 177.67 177.62 177.62	JUL	AUG	179.98 180.02 179.94 180.06 180.11 180.15 180.15

SITE NUMBER 33—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	180.23 180.39 180.35 180.39 180.25	179.58 179.74 179.83 179.68 179.74	179.52 179.46 179.64 179.45 179.58	179.35 179.27 179.33 179.35 179.25	179.31 179.25 179.40 179.35 179.22	178.85 179.04 179.04 178.97 178.98	178.72 178.70 178.85 178.89 178.76	178.85 178.93 178.94 178.89 179.12	180.23 180.15 180.39 180.39	179.82 179.95 179.94 180.06 180.03	182.06 182.03 182.05 182.14 182.11	183.21 183.13 183.18 183.32 183.40
6 7 8 9 10	180.24 180.51 180.45 180.17 180.35	179.79 179.69 179.60 179.74 179.77	179.57 179.49 179.27 179.26 179.46	179.37 179.44 179.42 179.32 179.45	179.29 179.27 179.12 179.04 179.14	179.04 179.03 179.12 179.31 179.35	178.56 178.57 178.66 178.74 178.88	179.06 179.18 179.16 179.22 179.22	180.36 180.33 180.26 180.09 180.02	180.07 180.15 180.25 180.43 180.49	181.99 181.91 181.97 182.07 182.11	183.69 183.82 183.80 183.82 183.96
11 12 13 14 15	180.56 180.39 180.18 180.11 180.05	179.63 179.65 179.43 179.48 179.61	179.63 179.65 179.58 179.58 179.46	179.48 179.44 179.52 179.42 179.48	179.15 179.15 179.10 179.08 178.93	179.61 179.55 179.33 179.35 179.31	178.86 178.74 178.41 178.58 178.65	179.18 179.08 179.10 178.99 178.97	179.86 179.79 179.76 179.69 179.98	180.68 180.74 180.87 180.96 181.20	182.18 182.28 182.28 182.31 182.30	184.10 184.10 184.20 184.23 184.28
16 17 18 19 20	180.18 180.27 180.30 179.97 180.01	179.65 179.63 179.57 179.63 179.50	179.40 179.44 179.31 179.46 179.55	179.27 179.28 179.35 179.44 179.31	178.73 178.79 178.76 178.90 178.92	179.33 179.24 179.09 179.26 179.26	178.72 178.70 178.74 178.70 178.71	179.18 179.16 179.24 179.48 179.61	179.90 179.63 179.67 179.55 179.44	181.31 181.36 181.34 181.48 181.61	182.39 182.58 182.73 182.94 183.06	184.20 184.12 183.91 183.74 183.82
21 22 23 24 25	180.02 180.18 180.20 180.07 179.79	179.55 179.57 179.67 179.61 179.62	179.46 179.34 179.42 179.29 179.42	179.33 179.39 179.43 179.46 179.29	178.90 178.79 178.67 178.91 178.83	179.16 179.18 179.15 179.18 179.01	178.76 178.84 178.77 178.69 178.38	179.65 179.69 179.66 179.65 179.79	179.46 179.61 179.61 179.46 179.42	181.89 182.11 182.25 182.29 182.32	183.06 182.96 182.88 182.87 182.93	183.82 183.78 183.62 183.51 183.38
26 27 28 29 30 31	179.98 180.10 180.06 180.13 180.13	179.75 179.70 179.42 179.51 179.58	179.49 179.55 179.37 179.35 179.31 179.44	179.39 179.49 179.37 179.44 179.37 179.24	178.40 178.51 178.70 	178.88 178.80 178.74 178.70 178.71 178.75	178.42 178.70 178.92 178.91 178.83	179.79 179.69 179.73 180.00 179.98 180.11	179.35 179.33 179.46 179.50 179.69	182.32 182.35 182.28 182.25 182.25 182.22	182.85 182.93 183.01 183.06 182.98 183.14	183.40 183.46 183.36 183.36
LOW	180.56	179.83	179.65	179.52	179.40	179.61	178.92	180.11	180.39	182.35	183.14	184.28

SITE NUMBER FROM LOCATION MAP.—34.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N6E15ADAA2.

SITE ID (STATION NUMBER).—440811103222202.

OTHER IDENTIFIER.—PE-96B and Doty Ddwd.

LOCATION.—Lat 44°08′11.0″, long 103°22′21.8″, in NE¹/4NE¹/4SE¹/4NE¹/4 sec. 15, T. 2N., R. 6 E., Hydrologic Unit 10120111, 5 mi west of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled observation well, 910 ft deep with 870 ft of 5-in. steel casing; open hole from 870 to 910 ft.

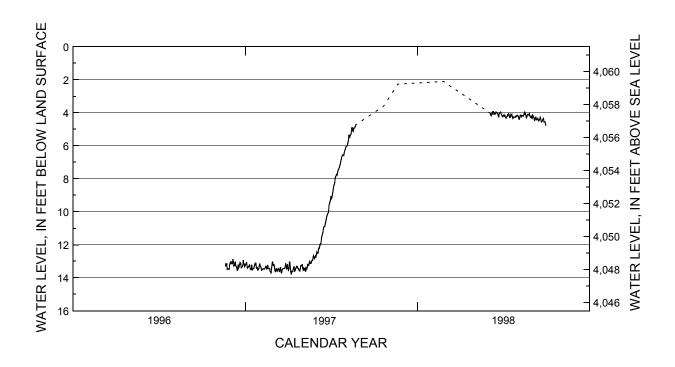
INSTRUMENTATION.—Electronic data logger.

DATUM.—Elevation of land-surface datum is 4,061.5 ft above sea level. Measuring point: Top of steel casing, 1.0 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—November 1996 to September 1998.

EXTREMES.—Highest daily water level, 2.11 ft (estimated) below land-surface datum, Feb. 25, 1998; lowest water level, 13.8 ft below land-surface datum, Apr. 8, 1997.



SITE NUMBER 34—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF.	ACE DATUM			ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			13.00	13.20	13.32	13.28	13.48	13.17	12.45	9.06	6.18	
2			13.12	13.13	13.34	13.18	13.55	13.41	12.52	9.20	6.06	
3 4			13.16 13.15	13.05 13.27	13.44 13.55	13.33 13.52	13.43 13.02	13.51 13.43	12.53 12.44	9.14 8.99	6.03 6.02	
5			12.87	13.43	13.52	13.63	13.09	13.57	12.22	8.81	5.95	
_			12.05	12 40	12 40	12 50	12 45	12 47	10 04	0 63	F 03	
6 7			13.05 13.30	13.40 13.32	13.48 13.48	13.59 13.44	13.45 13.68	13.47 13.41	12.24 12.14	8.63 8.44	5.83 5.71	
8			13.27	13.32	13.45	13.58	13.80	13.63	11.98	8.37	5.34	
9			13.11	13.23	13.48	13.61	13.61	13.54	11.99	8.26	5.45	
10			13.03	13.29	13.48	13.49	13.63	13.38	11.88	7.98	5.50	
11			13.29	13.49	13.42	13.50	13.62	13.49	11.60	7.87	5.36	
12			13.32	13.51	13.34	13.45	13.53	13.32	11.46	7.81	5.34	
13 14			13.36 13.54	13.52 13.22	13.30 13.34	13.60 13.62	13.37 13.34	13.17 13.25	11.37 11.25	7.74 7.78	5.25 4.95	
15			13.55	13.52	13.45	13.48	13.60	13.25	11.04	7.64	4.87	
16 17			13.20 13.41	13.52 13.44	13.40 13.23	13.36 13.61	13.58 13.46	13.10 13.01	10.92 10.90	7.49 7.43	5.08 5.14	
18			13.33	13.44	13.45	13.74	13.40	13.13	10.89	7.43	4.95	
19		13.14	13.22	13.37	13.44	13.58	13.32	13.13	10.75	7.32	4.92	
20		13.27	13.08	13.22	13.44	13.48	13.36	13.12	10.62	7.19	4.94	
21		13.22	13.12	13.13	13.46	13.46	13.33	12.99	10.46	7.09	4.90	
22		13.13	13.22	13.22	13.62	13.45	13.45	12.95	10.32	6.94	4.78	
23		13.50	13.40	13.17	13.66	13.44	13.45	12.96	10.21	6.80	4.73	
24 25		13.47 13.47	13.37 13.34	13.43 13.43	13.71 13.45	13.44 13.44	13.54 13.55	12.78 12.67	10.13 10.09	6.67 6.60		
23		13.47	13.34	13.43	13.43	13.44	13.33	12.07	10.09	0.00		
26		13.49	13.28	13.40	13.23	13.33	13.59	12.75	9.96	6.55		
27 28		13.49 13.21	12.93 13.16	13.57 13.48	13.02 13.13	13.13 13.26	13.45 13.27	12.84 12.77	9.62 9.53	6.57 6.60		
28 29		13.21	13.16	13.48	13.13	13.46	13.27	12.77	9.53	6.50		
30		13.13	13.32	13.26		13.38	13.27	12.74	9.29	6.33		
31			13.24	13.15		13.19		12.64		6.25		
LOW		13.50	13.55	13.57	13.71	13.74	13.80	13.63	12.53	9.20	6.18	
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				YEAR OCTOB	ER 1997 T JUN	O SEPTEMB	ER 1998 AUG	SEP
					D <i>P</i>	AILY LOWES	ST VALUES			JUL	AUG	
1 2	OCT	NOV	DEC	JAN	D <i>F</i> FEB	AILY LOWES	ST VALUES APR	MAY	JUN 	JUL 4.23 4.16	AUG 4.16 4.19	4.35 e4.16
1 2 3	OCT	NOV	DEC 	JAN 	D# FEB 	AILY LOWES MAR	APR	MAY 	JUN 4.01	JUL 4.23 4.16 4.20	AUG 4.16 4.19 4.24	4.35 e4.16 e4.21
1 2 3 4	OCT	NOV 	DEC 	JAN 	D# FEB 	MAR	APR	MAY 	JUN 4.01 4.04	JUL 4.23 4.16 4.20 4.21	AUG 4.16 4.19 4.24 4.40	4.35 e4.16 e4.21 e4.27
1 2 3 4 5	OCT	NOV	DEC 	JAN 	D# FEB 	AILY LOWES MAR	APR	MAY 	JUN 4.01	JUL 4.23 4.16 4.20 4.21 4.14	AUG 4.16 4.19 4.24	4.35 e4.16 e4.21
1 2 3 4 5	OCT	NOV	DEC	JAN	D# FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19	JUL 4.23 4.16 4.20 4.21 4.14	AUG 4.16 4.19 4.24 4.40 4.39	4.35 e4.16 e4.21 e4.27 e4.31
1 2 3 4 5	OCT	NOV	DEC	JAN	D# FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44
1 2 3 4 5	OCT	NOV	DEC	JAN	D# FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19	JUL 4.23 4.16 4.20 4.21 4.14	AUG 4.16 4.19 4.24 4.40 4.39	4.35 e4.16 e4.21 e4.27 e4.31
1 2 3 4 5	OCT	NOV	DEC	JAN	D# FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28
1 2 3 4 5 6 7 8 9	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27
1 2 3 4 5 6 7 8 9 10 11 12 13	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21	4.35 e4.16 e4.21 e4.27 e4.31 e4.44 e4.28 e4.27 e4.44 e4.43 e4.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.02 4.10	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.25 4.23 4.12 4.15 4.06 4.10	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.44 e4.43 e4.35 e4.44
1 2 3 4 5 6 7 8 9 10 11 12 13	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21	4.35 e4.16 e4.21 e4.27 e4.31 e4.44 e4.28 e4.27 e4.44 e4.43 e4.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.48 e4.27 e4.40 e4.44 e4.43 e4.35 e4.44 e4.50 e4.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 3.94 4.07 4.02 4.10 3.97 4.01	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.45 e4.44
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.48 e4.27 e4.40 e4.44 e4.43 e4.35 e4.44 e4.50 e4.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.02 4.10 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.48 e4.27 e4.40 e4.43 e4.43 e4.43 e4.44 e4.43 e4.44 e4.43 e4.44 e4.44
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.02 4.10 4.07 3.97 4.02 4.10 4.07	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.06 4.19 4.30	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.43 e4.43 e4.44 e4.50 e4.45 e4.45 e4.45 e4.28 e4.51
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV	DEC	JAN	DF FEB	MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.08 4.08 4.19 4.30	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.45 e4.28 e4.28 e4.28 e4.28 e4.28
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.02 4.10 4.07 3.98 4.02 4.06 4.20 4.25 4.10	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.36 4.31	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.06 4.19 4.30 4.23 4.15 4.10	4.35 e4.16 e4.21 e4.27 e4.31 e4.44 e4.28 e4.27 e4.40 e4.43 e4.43 e4.43 e4.44 e4.53 e4.45 e4.45 e4.51 e4.53 e4.53
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.31 4.25	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.08 4.08 4.19 4.30 4.23 4.15 4.10 4.12	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.45 e4.51 e4.51 e4.57 e4.53 e4.44
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 4.07 4.02 4.10 4.07 3.98 4.02 4.06 4.20 4.25 4.10	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.36 4.31	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.06 4.19 4.30 4.23 4.15 4.10	4.35 e4.16 e4.21 e4.27 e4.31 e4.44 e4.28 e4.27 e4.40 e4.43 e4.43 e4.43 e4.44 e4.53 e4.45 e4.45 e4.51 e4.53 e4.53
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	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01 3.99 3.96	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.31 4.25 4.31 4.27 4.28	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.08 4.19 4.30 4.23 4.15 4.10 4.12 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.45 e4.51 e4.51 e4.51 e4.51 e4.51
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01 3.99	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.36 4.31 4.25 4.27	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.06 4.19 4.30 4.23 4.15 4.10 4.12 4.15 4.10 4.12 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.48 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.50 e4.51 e4.51 e4.53 e4.36 e4.51 e4.53 e4.51 e4.55 e4.54
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	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01 3.99 3.96	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.31 4.25 4.31 4.27 4.28	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.08 4.19 4.30 4.23 4.15 4.10 4.12 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.45 e4.50 e4.45 e4.40 e4.28 e4.36 e4.51
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01 3.99 3.96 4.04 4.11 4.18 4.25	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.33 4.25 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.36 4.31 4.27 4.28 4.28 4.23	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.06 4.19 4.30 4.23 4.15 4.10 4.12 4.15 4.10 4.12 4.15 4.10 4.20 4.21 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.47 e4.44 e4.28 e4.27 e4.40 e4.43 e4.35 e4.44 e4.50 e4.45 e4.51 e4.57 e4.53 e4.51 e4.57 e4.61 e4.57 e4.61 e4.79
1 2 3 4 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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	DF FEB	AILY LOWES MAR	APR	MAY	JUN 4.01 4.04 4.14 4.19 4.10 4.00 4.10 3.94 3.94 4.07 4.02 4.10 4.07 3.97 4.01 3.98 4.02 4.06 4.20 4.25 4.10 4.01 3.99 3.96 4.04 4.11 4.18	JUL 4.23 4.16 4.20 4.21 4.14 4.25 4.31 4.23 4.12 4.15 4.06 4.10 4.28 4.30 4.26 4.11 4.17 4.12 4.26 4.31 4.25 4.32 4.12 4.36 4.31 4.25 4.27	AUG 4.16 4.19 4.24 4.40 4.39 4.25 4.14 4.14 4.24 4.19 4.17 4.20 4.21 4.15 4.04 3.97 4.08 4.08 4.19 4.30 4.23 4.15 4.10 4.12 4.15 4.06 4.20 4.21 4.15	4.35 e4.16 e4.21 e4.27 e4.31 e4.44 e4.28 e4.27 e4.40 e4.44 e4.35 e4.44 e4.50 e4.45 e4.45 e4.51 e4.51 e4.57 e4.44 e4.51 e4.57 e4.53 e4.51 e4.57 e4.61

e Estimated

SITE NUMBER FROM LOCATION MAP.—35.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N6E15ADAA.

SITE ID (STATION NUMBER).—440811103222201.

OTHER IDENTIFIER.—PE-95C and Doty Mdsn.

LOCATION.—Lat 44°08′11.1″, long 103°22′21.8″, in NE¹/4NE¹/4SE¹/4NE¹/4 sec. 15, T. 2N., R. 6 E., Hydrologic Unit 10120111, 5 mi west of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 425 ft deep with 385 ft of 5-in. steel casing; open hole from 385 to 425 ft.

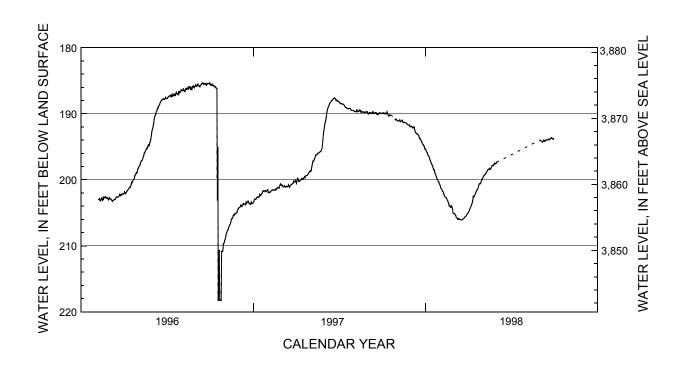
INSTRUMENTATION.—Electronic data logger.

DATUM.—Elevation of land-surface datum is 4,060.7 ft above sea level. Measuring point: Top of steel casing, 1.2 ft above land-surface datum.

REMARKS.—Records good. Sudden decrease in water level during October 1996 caused by drilling of adjacent well at site.

PERIOD OF RECORD.—February 1996 to September 1998.

EXTREMES.—Highest daily water level, 185.33 ft below land-surface datum, Sept. 15, 1996; lowest water level, 218.36 ft below land-surface datum, Oct. 18, 1996.



		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOE	ER 1995 T	TO SEPTEME	BER 1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						202.74	202.05	198.32	192.19	187.72	186.47	185.76
2						202.94	201.85	198.08	191.82	187.69	186.44	185.86
3 4						202.93 202.90	202.05 202.16	197.94 197.84	191.42 190.87	187.52 187.48	186.50 186.44	185.77 185.60
5						203.07	202.16	197.81	190.42	187.38	186.17	185.50
6					202.99	203.13	201.84	197.44	190.29	187.33	186.53	185.76
7					202.99	203.13	201.04	197.27	190.29	187.29	186.63	185.74
8					203.00	203.19	201.68	197.11	189.78	187.22	186.68	185.86
9					202.89	203.11	201.57	197.11	189.70	187.44 187.46	186.37	185.95
10					203.18	203.11	201.40	196.97	189.49	187.40	186.18	185.69
11					203.21	203.01	201.35	196.75	189.16	187.14	186.34	185.67
12					203.06	202.98	201.28	196.53	189.18	187.25	186.22	185.60
13 14					202.80 202.93	202.99 202.87	201.15 201.18	196.34 195.92	188.88 188.77	187.35 187.05	186.20 186.25	185.39 185.46
15					203.12	202.67	201.10	195.90	188.71	187.29	186.00	185.33
1.0					202 04	202 67	200 70	105 70	100 45	107.06	106 22	105 42
16 17					202.84 202.96	202.67 202.61	200.78 200.40	195.70 195.54	188.45 188.26	187.26 187.05	186.22 186.02	185.43 185.54
18					202.59	202.63	200.48	195.43	188.15	187.09	185.89	185.42
19					202.62	202.67	200.26	195.25	188.01	187.32	185.88	185.51
20					202.75	202.60	200.14	195.30	187.90	186.86	186.37	185.41
21					202.72	202.53	200.02	195.10	187.93	186.75	186.00	185.57
22					202.72	202.33	199.92	194.82	187.84	186.98	186.36	185.47
23					202.73	202.21	199.70	194.71	187.74	186.93	186.36	185.69
24					202.70	202.44	199.36	194.86	187.71	186.96	185.86	185.59
25					202.84	202.38	199.28	194.61	187.83	187.22	185.88	185.41
26					202.75	202.24	199.13	194.29	187.81	186.56	185.80	185.43
27					202.92	202.31	198.94	194.14	187.71	186.88	186.05	185.39
28					203.05	202.18	198.99	193.86	187.53	186.75	186.09 185.85	185.47
29 30					202.87	202.14	198.83 198.40	193.33 192.78	187.70 187.71	186.65 186.71	185.85	185.52 185.32
31						202.18		192.40		186.40	185.62	
LOW					203.21	203.30	202.16	198.32	192.19	187.72	186.68	185.95
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOE	BER 1996 T	TO SEPTEME	BER 1997	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW				EAR OCTOE	BER 1996 I	TO SEPTEME	BER 1997 AUG	SEP
	OCT	NOV	DEC	JAN	Di FEB	AILY LOWE:	ST VALUES APR	MAY	JUN	JUL	AUG	
DAY 1 2					Di	AILY LOWE:	ST VALUES			JUL 188.13 188.37		SEP 189.99 190.05
1 2 3	OCT 185.55 185.70 185.72	NOV 209.11 208.94 208.57	DEC 204.20 204.18 204.16	JAN 203.38 203.17 202.94	FEB 201.98 201.97 201.89	MAR 200.88 200.79 200.91	APR 200.34 200.56 200.21	MAY 198.65 198.75 198.67	JUN 191.58 191.25 190.96	JUL 188.13 188.37 188.41	AUG 189.57 189.55 189.66	189.99 190.05 189.97
1 2 3 4	OCT 185.55 185.70 185.72 185.54	NOV 209.11 208.94 208.57 208.16	DEC 204.20 204.18 204.16 204.09	JAN 203.38 203.17 202.94 202.95	DE FEB 201.98 201.97 201.89 201.97	MAR 200.88 200.79 200.91 201.03	APR 200.34 200.56 200.21 199.76	MAY 198.65 198.75 198.67 198.28	JUN 191.58 191.25 190.96 190.56	JUL 188.13 188.37 188.41 188.42	AUG 189.57 189.55 189.66 189.69	189.99 190.05 189.97 189.83
1 2 3	OCT 185.55 185.70 185.72	NOV 209.11 208.94 208.57	DEC 204.20 204.18 204.16	JAN 203.38 203.17 202.94	FEB 201.98 201.97 201.89	MAR 200.88 200.79 200.91	APR 200.34 200.56 200.21	MAY 198.65 198.75 198.67	JUN 191.58 191.25 190.96	JUL 188.13 188.37 188.41	AUG 189.57 189.55 189.66	189.99 190.05 189.97
1 2 3 4	OCT 185.55 185.70 185.72 185.54	NOV 209.11 208.94 208.57 208.16	DEC 204.20 204.18 204.16 204.09	JAN 203.38 203.17 202.94 202.95	DE FEB 201.98 201.97 201.89 201.97	MAR 200.88 200.79 200.91 201.03	APR 200.34 200.56 200.21 199.76	MAY 198.65 198.75 198.67 198.28	JUN 191.58 191.25 190.96 190.56	JUL 188.13 188.37 188.41 188.42	AUG 189.57 189.55 189.66 189.69	189.99 190.05 189.97 189.83
1 2 3 4 5	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75	FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.71	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26	MAY 198.65 198.75 198.67 198.28 197.83	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33	JUL 188.13 188.37 188.41 188.42 188.51	AUG 189.57 189.55 189.66 189.69 189.70 189.65	189.99 190.05 189.97 189.83 189.83
1 2 3 4 5	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71	FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.71 201.65	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35	189.99 190.05 189.97 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.73 185.91	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59	Di FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.71 201.65 201.60	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57 188.57	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.65 189.35 189.35	189.99 190.05 189.97 189.83 189.83 189.83 189.83
1 2 3 4 5	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71	FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.71 201.65	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35	189.99 190.05 189.97 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9 10	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.67 185.82 185.83	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74 203.61	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67	Di FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.71 201.65 201.60 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.08	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.57 188.54 188.61	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.75 189.71 189.72	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.88 189.91 189.85
1 2 3 4 5 6 7 8 9 10	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67	DI FEB 201.98 201.97 201.89 201.97 201.91 201.61 201.65 201.62 201.52 201.50	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.03	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.10 200.08 199.98	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57 188.54 188.61 188.71	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.65 189.35 189.71 189.72	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.88 189.91 189.85
1 2 3 4 5 6 7 8 9 10	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.05 186.05	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74 203.61 203.73 203.73	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.65 201.62 201.52 201.50 201.52	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.03	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.80	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.23	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.29	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.57 188.54 188.61 188.71 188.84	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35 189.71 189.72 189.59 189.64 189.63	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.88 189.91 189.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.71 203.80	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.61 202.24	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.60 201.62 201.52 201.52 201.52 201.55	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.03 201.03 201.00 201.10 201.10	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.80 199.79	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.23 196.23	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.29	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.54 188.61 188.71 188.84 188.99	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.71 189.72 189.59 189.64 189.63 189.42	189.99 190.05 189.97 189.83 189.83 189.91 189.88 189.91 189.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.26 207.09 206.89 206.81 206.00 206.29 205.93	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74 203.61 203.73 203.73 203.71 203.80 203.80	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.67 202.61 202.24 202.38	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.60 201.62 201.50 201.52 201.57 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.10 201.10 201.03	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.99	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.23 196.25	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.48 188.39 188.49 188.49 188.39	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.57 188.54 188.61 188.71 188.84 188.99 189.07	AUG 189.57 189.55 189.66 189.69 189.70 189.75 189.71 189.72 189.59 189.64 189.63 189.42	189.99 190.05 189.97 189.83 189.83 189.81 189.91 189.85 189.67 189.77 189.95 189.94
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.82 185.83 186.05 186.05 186.04 186.15 186.20	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74 203.61 203.73 203.73 203.73 203.71 203.80 203.40	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.61 202.38 202.41	Di FEB 201.98 201.97 201.97 201.91 201.65 201.60 201.62 201.52 201.52 201.57 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.01 201.01 201.79	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.98 199.99 199.94	MAY 198.65 198.75 198.67 198.28 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.23 196.25 196.26	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.29 188.21 188.05	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.54 188.61 188.71 188.84 188.99 189.07	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.71 189.72 189.59 189.64 189.63 189.44 189.69	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.88 189.91 189.85 189.77 189.75 189.95
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.67 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.93	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.73 203.73 203.75 203.80 203.80	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.67 202.61 202.38	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.60 201.62 201.50 201.52 201.57 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.10 201.03 201.00 201.10 200.97 201.10 201.01	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.80 199.79 199.94	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78 188.48 188.39 188.21 188.05	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57 188.54 188.61 188.71 188.84 188.99 189.07	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.65 189.71 189.72 189.59 189.64 189.63 189.42 189.44 189.69	189.99 190.05 189.97 189.83 189.83 189.91 189.85 189.67 189.77 189.95 189.94 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 218.36	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.26 207.09 206.89 206.81 206.00 205.93 205.93	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.73 203.74 203.61 203.73 203.73 203.73 203.73 203.74 203.80 203.40	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.65 201.62 201.52 201.57 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.79 200.79 200.98 201.16	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.98 199.99 199.79 199.94	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.23 196.25 196.26	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.29 188.21 188.05	JUL 188.13 188.37 188.41 188.51 188.50 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08	AUG 189.57 189.55 189.66 189.69 189.70 189.75 189.71 189.72 189.59 189.44 189.69 189.69	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.97 189.77 189.95 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.67 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.93	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.73 203.73 203.75 203.80 203.80	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.75 202.71 202.59 202.67 202.67 202.67 202.61 202.38	Di FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.60 201.62 201.50 201.52 201.57 201.62	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.03 201.10 201.03 201.00 201.10 200.97 201.10 201.01	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.80 199.79 199.94	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78 188.48 188.39 188.21 188.05	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.47 188.57 188.54 188.61 188.71 188.84 188.99 189.07	AUG 189.57 189.55 189.66 189.69 189.69 189.70 189.65 189.71 189.72 189.59 189.64 189.63 189.42 189.44 189.69	189.99 190.05 189.97 189.83 189.83 189.91 189.85 189.67 189.77 189.95 189.94 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.26 207.09 206.89 206.89 205.93 205.93 205.83 205.83 205.42	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.73 203.71 203.80 203.80 203.40 203.40 203.58 203.39 203.23	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.08 201.82	PEB 201.98 201.97 201.89 201.97 201.91 201.81 201.65 201.62 201.52 201.57 201.62 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.79 201.10 201.11 201.01	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.98 199.79 199.94 199.92 199.78 199.95 199.75	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.23 196.23 196.25 196.26 196.12 195.99 195.98 196.00	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.29 188.21 188.05 187.97 188.00 187.97 187.69	JUL 188.13 188.37 188.41 188.51 188.50 188.57 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07	AUG 189.57 189.55 189.66 189.69 189.70 189.71 189.72 189.72 189.59 189.44 189.63 189.42 189.44 189.69 189.73 189.73	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.95 189.67 189.77 189.95 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 185.55 185.70 185.72 185.54 185.51 185.73 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.27	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.83 205.65 205.36 205.42	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.71 203.80 203.80 203.40 203.58 203.46 203.39 203.23	JAN 203.38 203.17 202.94 202.95 202.99 202.75 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.09 202.08 201.82	Division of the control of the contr	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.01 201.01 201.01 201.01 201.01 201.01 200.98 201.06	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.99 199.99 199.79 199.94 199.92 199.78 199.79 199.71 199.45	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26 196.12 195.99 195.99 195.99 195.93	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.29 188.21 188.05 187.97 188.00 187.87 187.69	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.57 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07 189.08 189.25 189.26	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.71 189.72 189.59 189.64 189.63 189.42 189.64 189.65 189.73 189.73	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.97 189.77 189.95 189.95 189.83 189.83 189.83 189.85
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.83 205.65 205.36 205.42	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.73 203.71 203.80 203.80 203.40 203.40 203.58 203.39 203.23	JAN 203.38 203.17 202.94 202.95 202.99 202.98 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.08 201.82	PEB 201.98 201.97 201.89 201.97 201.91 201.81 201.65 201.62 201.52 201.57 201.62 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59 201.59	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.79 201.10 201.11 201.01	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.98 199.79 199.94 199.92 199.78 199.95 199.75	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.23 196.23 196.25 196.26 196.12 195.99 195.98 196.00	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.29 188.21 188.05 187.97 188.00 187.97 187.69	JUL 188.13 188.37 188.41 188.51 188.50 188.57 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07	AUG 189.57 189.55 189.66 189.69 189.70 189.71 189.72 189.72 189.59 189.44 189.63 189.42 189.44 189.69 189.73 189.73	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.95 189.67 189.77 189.95 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.82 185.83 186.05 186.05 186.04 186.15 186.20 203.14 195.06 218.36 212.68 210.65 218.37 218.32 218.31 218.32	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.83 205.65 205.42 205.33 205.14 205.19	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.71 203.80 203.40 203.58 203.46 203.39 203.42 203.63	JAN 203.38 203.17 202.94 202.95 202.99 202.75 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.08 201.82 201.69 201.75 201.67 201.75	Diagram Diagra	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.97 201.10 201.11 201.01 200.79 200.86 200.80 200.75 200.72 200.61	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.99 199.79 199.94 199.92 199.78 199.79 199.71 199.45 199.40 199.37	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26 195.99 195.99 195.99 195.93 195.83 195.75 195.75	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.21 188.05 187.97 188.00 187.69 187.69 187.69 187.69 187.69	JUL 188.13 188.37 188.41 188.42 188.51 188.57 188.54 188.61 188.61 188.99 189.07 189.08 189.07 189.21 189.25 189.26 189.22 189.18 189.18	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35 189.71 189.72 189.59 189.64 189.63 189.42 189.64 189.69 189.73 189.73 189.73 189.77	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.97 189.77 189.95 189.94 189.83 189.83 189.83 189.83 189.83 189.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.27 218.32 2218.31	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 205.93 205.93 205.93 205.36 205.34 205.34 205.34	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.73 203.71 203.80 203.40 203.40 203.50 203.42 203.50 203.67	JAN 203.38 203.17 202.94 202.95 202.99 202.88 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.08 201.69 201.69 201.69	Division of the control of the contr	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.10 201.11 201.01 200.79 201.10 201.11 200.79 200.80 200.86 200.86	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.79 199.80 199.79 199.94 199.92 199.75 199.71 199.45 199.40 199.37	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.23 196.23 196.25 196.26 195.99 195.98 196.00 195.93	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78 188.48 188.39 188.21 188.05 187.97 187.69 187.69	JUL 188.13 188.37 188.41 188.51 188.50 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.21 189.25 189.26 189.22 189.18	AUG 189.57 189.55 189.66 189.69 189.70 189.75 189.71 189.72 189.59 189.44 189.63 189.42 189.44 189.69 189.73 189.73	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.95 189.67 189.77 189.95 189.89 189.83 189.83 189.83 189.83 189.83
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	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.27 218.32 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.26 207.09 206.89 205.93 205.93 205.36 205.42 205.34 205.14 205.19 205.16 205.00	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.73 203.71 203.80 203.40 203.50 203.42 203.50 203.42 203.50 203.64 203.74	JAN 203.38 203.17 202.94 202.95 202.99 202.88 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 202.08 201.69 201.78 201.75 201.75	PER 201.98 201.97 201.89 201.97 201.65 201.60 201.52 201.57 201.62 201.50 201.45 201.21 201.27 201.27 201.27 201.28 201.29 201.04	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.79 201.10 201.11 200.79 200.80 200.75 200.61 200.60	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.79 199.80 199.79 199.94 199.92 199.78 199.95 199.71 199.45 199.45 199.37 199.38 199.31	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.23 196.23 196.25 196.26 195.99 195.98 196.00 195.93 195.83 195.75 195.58 195.48	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78 188.48 188.39 188.21 188.05 187.97 187.69 187.69 187.69 187.69 187.80 188.04	JUL 188.13 188.37 188.41 188.42 188.51 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.21 189.25 189.26 189.26 189.26 189.21	AUG 189.57 189.55 189.66 189.69 189.70 189.71 189.72 189.72 189.59 189.44 189.63 189.42 189.44 189.67 189.73 189.77 189.77 189.77	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.97 189.85 189.67 189.95 189.89 189.89 189.89 189.89 189.89
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	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.36 212.68 210.65 218.37 218.32 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.83 205.83 205.83 205.142 205.33 205.142 205.33 205.142 205.30	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.73 203.71 203.80 203.40 203.58 203.46 203.39 203.23 203.42 203.67 203.67 203.67	JAN 203.38 203.17 202.94 202.95 202.99 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.38 201.82 201.69 201.78 201.75 201.75 201.75	Display FEB 201.98 201.97 201.89 201.97 201.91 201.65 201.62 201.52 201.57 201.62 201.57 201.40 201.50 201.40 201.51 201.21 201.27 201.27 201.28 201.29 201.04 200.82	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.10 201.11 201.01 200.79 200.98 200.86 200.80 200.75 200.72 200.60 200.45	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.99 199.79 199.94 199.92 199.78 199.79 199.71 199.45 199.40 199.37 199.31 199.24	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26 195.99 195.99 195.93 195.83 195.75 195.75 195.75 195.58 195.48	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.21 188.05 187.97 188.00 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.80 188.04	JUL 188.13 188.37 188.41 188.42 188.51 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07 189.21 189.25 189.26 189.22 189.18 189.19 189.21 189.33	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35 189.71 189.72 189.59 189.64 189.63 189.42 189.69 189.65 189.35 189.73 189.73 189.73 189.77 189.79 189.73	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.97 189.77 189.95 189.94 189.83 189.83 189.85 190.07 190.12
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	OCT 185.55 185.70 185.72 185.54 185.51 185.71 185.67 185.73 185.91 185.82 185.83 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.27 218.32 210.85 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 205.93 205.93 205.83 205.65 205.36 205.42 205.33 205.14 205.19 205.16 205.00	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.99 203.74 203.61 203.73 203.71 203.80 203.40 203.40 203.58 203.46 203.39 203.23 203.42 203.50 203.67 203.64 203.74	JAN 203.38 203.17 202.94 202.99 202.98 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.09 201.69 201.69 201.75 201.75 201.75 201.67 201.83 201.74	PER 201.98 201.97 201.89 201.97 201.65 201.60 201.52 201.57 201.62 201.50 201.45 201.21 201.27 201.27 201.27 201.28 201.29 201.04	MAR 200.88 200.79 200.91 201.03 201.10 201.06 201.14 201.03 201.03 201.10 201.10 201.11 201.01 200.92 201.06 201.14 201.03	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.28 200.14 200.10 200.08 199.79 199.80 199.79 199.94 199.92 199.78 199.95 199.71 199.45 199.45 199.37 199.38 199.31	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.23 196.23 196.25 196.26 195.99 195.98 196.00 195.93 195.83 195.75 195.58 195.48	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.78 188.48 188.39 188.21 188.05 187.97 187.69 187.69 187.69 187.69 187.80 188.04	JUL 188.13 188.37 188.41 188.51 188.50 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.28 189.21 189.25 189.26 189.22 189.18 189.19 189.21	AUG 189.57 189.55 189.66 189.69 189.70 189.71 189.72 189.72 189.59 189.44 189.63 189.42 189.44 189.67 189.73 189.77 189.77 189.77	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.95 189.67 189.77 189.95 189.85 190.07 190.10 190.10 189.93 189.93
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 185.55 185.70 185.72 185.54 185.51 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.32 218.31 218.32 210.85 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.81 206.60 206.29 205.93 205.93 205.83 205.65 205.36 205.42 205.33 205.14 205.19 205.19 204.93 204.93 204.58 204.33	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.73 203.73 203.73 203.80 203.40 203.40 203.50 203.46 203.39 203.23 203.42 203.50 203.67 203.64 203.74	JAN 203.38 203.17 202.94 202.95 202.99 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.38 201.69 201.75 201.67 201.75 201.67 201.83 201.74 201.69	Display FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.65 201.60 201.52 201.57 201.62 201.59 201.40 201.50 201.40 201.50 201.40 201.21 201.17 201.27 201.27 201.28 201.29 201.04	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.97 201.10 201.11 201.01 200.79 200.86 200.86 200.86 200.80 200.75 200.61 200.60 200.45 200.20 200.29 200.37	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.88 199.98 199.79 199.94 199.92 199.78 199.71 199.45 199.40 199.37 199.38 199.31 199.24 199.07 198.93 199.07	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26 196.12 195.99 196.00 195.93 195.83 195.75 195.75 195.75 195.58 195.48	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.21 188.05 187.97 187.69 188.06	JUL 188.13 188.37 188.41 188.42 188.51 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07 189.21 189.25 189.26 189.22 189.18 189.21 189.25 189.26 189.22 189.18	AUG 189.57 189.55 189.66 189.69 189.70 189.55 189.71 189.72 189.59 189.64 189.63 189.42 189.44 189.69 189.73 189.73 189.73 189.77 189.79 189.74 189.83 189.77 189.79 189.74 189.83	189.99 190.05 189.97 189.83 189.83 189.83 189.91 189.85 189.67 189.77 189.95 189.83 189.83 189.83 189.83 189.85 190.07 190.10 190.03 189.96 190.10 189.97 189.93
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 20 30 30 30 30 30 30 30 30 30 30 30 30 30	OCT 185.55 185.70 185.72 185.54 185.51 185.67 185.67 185.82 185.83 186.05 186.05 186.04 186.15 186.20 203.14 195.06 218.36 212.68 210.65 218.32 218.31 218.32 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.89 206.81 206.60 206.29 205.93 205.83 205.65 205.36 205.42 205.33 205.14 205.19 205.19 204.93 204.39	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.71 203.80 203.80 203.40 203.58 203.46 203.39 203.46 203.61	JAN 203.38 203.17 202.94 202.95 202.99 202.59 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.08 201.67 201.75 201.67 201.75 201.67 201.75 201.67 201.67 201.75	Dispersion of the control of the con	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.01 201.01 201.01 201.01 200.97 201.10 201.11 201.01 200.79 200.98 201.66 200.86 200.86 200.86 200.86 200.80 200.75 200.72 200.61 200.60 200.45 200.20 200.29 200.37 200.37	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.08 199.98 199.99 199.79 199.94 199.92 199.79 199.69 199.71 199.45 199.37 199.37 199.37 199.37 199.38 199.31	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.11 196.80 196.71 196.53 196.25 196.26 196.12 195.99 195.98 196.00 195.93 195.75 195.75 195.75 195.75 195.75 195.75 195.38	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.21 188.05 187.97 188.00 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 187.69 188.04	JUL 188.13 188.37 188.41 188.42 188.51 188.50 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07 189.18 189.21 189.25 189.26 189.22 189.18 189.19 189.21 189.53 189.53 189.53 189.53	AUG 189.57 189.55 189.66 189.69 189.70 189.65 189.35 189.71 189.72 189.59 189.64 189.63 189.44 189.69 189.80 189.73 189.77 189.79 189.77 189.79 189.77 189.79 189.74 189.83	189.99 190.05 189.97 189.83 189.83 189.83 189.85 189.97 189.95 189.97 189.95 189.88 189.91 189.88 189.91 189.88 189.97 189.98 189.83 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85 189.85
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 185.55 185.70 185.72 185.54 185.51 185.73 185.91 185.82 185.83 186.05 186.04 186.15 186.20 203.14 195.06 212.68 210.65 218.32 218.31 218.32 210.85 210.85	NOV 209.11 208.94 208.57 208.16 208.00 207.79 207.62 207.59 207.26 207.09 206.81 206.60 206.29 205.93 205.93 205.83 205.65 205.36 205.42 205.33 205.14 205.19 205.19 204.93 204.93 204.58 204.33	DEC 204.20 204.18 204.16 204.09 203.83 203.90 204.08 203.74 203.61 203.73 203.73 203.73 203.73 203.73 203.80 203.40 203.40 203.50 203.46 203.39 203.23 203.42 203.50 203.67 203.64 203.74	JAN 203.38 203.17 202.94 202.95 202.99 202.71 202.59 202.67 202.67 202.61 202.24 202.38 202.41 202.24 202.38 201.69 201.75 201.67 201.75 201.67 201.83 201.74 201.69	Display FEB 201.98 201.97 201.89 201.97 201.91 201.81 201.65 201.60 201.52 201.57 201.62 201.59 201.40 201.50 201.40 201.50 201.40 201.21 201.17 201.27 201.27 201.28 201.29 201.04	MAR 200.88 200.79 200.91 201.03 201.10 201.04 200.92 201.06 201.14 201.03 201.10 201.11 201.01 200.97 201.10 201.11 201.01 200.79 200.86 200.86 200.86 200.80 200.75 200.61 200.60 200.45 200.20 200.29 200.37	APR 200.34 200.56 200.21 199.76 199.83 200.11 200.26 200.28 200.14 200.10 200.88 199.98 199.79 199.94 199.92 199.78 199.71 199.45 199.40 199.37 199.38 199.31 199.24 199.07 198.93 199.07	MAY 198.65 198.75 198.67 198.28 197.83 197.56 197.17 197.19 197.11 196.80 196.71 196.53 196.25 196.26 196.12 195.99 196.00 195.93 195.83 195.75 195.75 195.75 195.58 195.48	JUN 191.58 191.25 190.96 190.56 190.00 189.65 189.33 189.06 188.96 188.78 188.48 188.39 188.21 188.05 187.97 187.69 188.06	JUL 188.13 188.37 188.41 188.42 188.51 188.57 188.54 188.54 188.61 188.71 188.84 188.99 189.07 189.08 189.07 189.21 189.25 189.26 189.22 189.18 189.21 189.25 189.26 189.22 189.18	AUG 189.57 189.55 189.66 189.69 189.70 189.55 189.71 189.72 189.59 189.64 189.63 189.42 189.44 189.69 189.73 189.73 189.73 189.77 189.79 189.74 189.83 189.77 189.79 189.74 189.83	189.99 190.05 189.97 189.83 189.83 189.83 189.85 189.97 189.85 189.97 189.95 189.96 189.83 189.83 189.83 189.83 189.83 189.83 189.85 190.07 190.12

SITE NUMBER 35—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	189.93 189.86	191.03 191.11	191.87 192.00	195.34 195.64	200.87	205.12	205.03	199.86 199.79	197.32 197.29			193.98 194.05
3	189.86	191.11	192.00	195.84	201.22	205.14	204.81	199.61	197.28			194.13
4	189.91	191.12	192.10	195.85	201.32	205.26	204.58	199.46				194.16
5	190.03	191.13	192.19	196.10	201.65	205.36	204.35	199.38				194.26
6	190.00	191.07	192.10	196.34	201.78	205.40	204.21	199.25				194.33
7	189.88	190.95	191.97	196.34	201.82	205.68	204.07	199.24				194.23
8	189.95	191.19	192.09	196.51	202.02	205.78	203.86	199.10				194.08
9	190.06	191.23	192.46	196.76	202.31	205.85	203.68	199.02				193.98
10	190.03	191.12	192.77	196.92	202.48	206.00	203.46	198.96				194.10
11	189.73	191.12	192.92	197.10	202.59	205.97	203.13	198.77				194.21
12	189.96	190.98	192.93	197.33	202.65	205.88	202.55	198.65				194.12
13	190.13	191.08	193.04	197.46	202.73	206.02	202.63	198.52				194.00
14	190.25	191.34	193.04	197.63	202.76	206.00	202.53	198.41				193.94
15	190.35	191.36	193.17	197.80	202.93	206.07	202.33	198.40				194.00
16	190.34	191.31	193.18	198.02	203.12	206.03	202.18	198.45				194.01
17	190.34	191.31	193.10	198.25	203.12	206.03	202.10	198.28				194.01
18	190.17	191.31	193.27	198.49	203.25	206.03	202.02	198.42				193.83
19	190.23	191.30	193.76	198.49	203.40	206.11	201.63	198.42				193.83
20	190.20	191.39	193.70	198.82	203.02	206.09	201.63	198.17				193.86
20	190.27	191.40	193.73	190.02	203.93	200.04	201.30	190.17				193.00
21	190.28	191.42	193.87	199.03	203.90	205.99	201.43	198.06				193.95
22		191.57	194.08	199.20	204.09	205.94	201.30	197.87				193.89
23		191.57	194.09	199.43	204.19	205.88	201.06	197.81				193.78
24		191.62	194.34	199.51	204.13	205.80	200.76	197.88				193.72
25		191.72	194.51	199.83	203.99	205.67	200.59	197.89				193.62
26		191.72	194.69	199.97	204.22	205.62	200.65	197.66				193.74
27		191.70	194.74	200.06	204.35	205.59	200.59	197.51				193.82
28		191.82	194.87	200.35	205.03	205.48	200.46	197.61				193.82
29	190.95	191.99	195.00	200.35		205.34	200.23	197.51				193.77
30	190.82	191.91	195.32	200.59		205.27	200.16	197.55				193.94
31	190.86		195.32	200.74		205.11		197.52				
LOW	190.95	191.99	195.32	200.74	205.03	206.11	205.03	199.86	197.32			194.33
2011	10.00		10.02	200.71	200.00	200.11	200.00		201.00			

SITE NUMBER FROM LOCATION MAP.—36.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2N1E27ADAC.

SITE ID (STATION NUMBER).—440623103583701.

OTHER IDENTIFIERS.—PE-91A and Blind Park.

LOCATION.—Lat 44°06′26.8″, long 103°58′35.9″, in SW¹/4NE¹/4SE¹/4NE¹/4 sec. 27, T. 2 N., R. 1 E., Hydrologic Unit 10120107, about 13 mi west of Rochford. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled observation well, 450 ft deep with 420 ft of 5.5-in. steel casing; open hole from 420 to 450 ft.

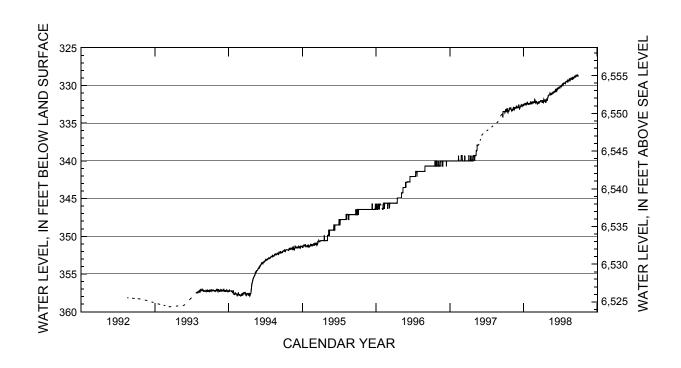
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 6,883.7 ft above sea level. Measuring point: Top of steel casing, 3.0 ft above land-surface datum.

REMARKS.—Records good. The raw data were truncated to nearest 0.01 volt before converting to feet, which caused the stairstep look for years 1995-97.

PERIOD OF RECORD.—August 1992 to September 1998.

EXTREMES.—Highest daily water level, 328.56 ft below land-surface datum, Sept. 19, 26, 1998; lowest daily water level, 359.35 ft below land-surface datum, Mar. 16, 1993.



SITE NUMBER 36—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	351.90 351.89 351.97	351.50 351.62 351.63 351.63 351.74	351.47 351.44 351.44 351.52 351.52	351.43 351.48 351.50 351.50 351.22	351.18 351.33 351.40 351.32 351.30	351.21 351.12 351.02 350.92 350.93	350.58 350.58 350.58 350.58 350.58	350.58 350.58 350.58 350.58 350.58	349.19 349.19 349.19 349.19 349.19	348.50 347.80 347.80 347.80 347.80	347.80 347.80 347.80 347.80 347.80	347.14 347.14 347.14 347.14 347.14
6 7 8 9 10	351.74 352.03 352.04 352.03 351.94	351.74 351.66 351.67 351.67 351.59	351.47 351.54 351.54 351.54 351.55	351.19 351.20 351.28 351.28 351.24	351.30 351.35 351.32 351.20 351.13	351.08 351.12 351.12 350.97 350.93	350.58 350.58 350.58 350.58 350.58	349.88 349.88 349.88 349.88	348.50 348.50 349.19 349.19 349.19	348.50 348.50 347.80 347.80 347.80	347.11 347.11 347.11 347.80 347.11	347.14 347.14 347.14 347.14 347.14
11 12 13 14 15	351.85 351.77	351.54 351.48 351.78 351.78	351.43 351.43 351.43 351.35 351.39	351.12 351.25 351.29 351.29 351.17	351.20 351.24 351.24 351.08 351.08	350.89 350.90 351.16 351.20 351.16	350.58 350.58 350.58 350.58 350.58	349.88 349.19 349.19 349.88 349.88	349.19 348.50 348.50 348.50 348.50	347.80 347.80 347.80 347.80 347.80	347.11 347.11 347.11 347.11 347.11	347.14 347.14 347.14 347.14 347.14
16 17 18 19 20	 	351.51 351.46 351.66 351.66 351.57	351.43 351.51 351.51 351.43 351.51	351.07 351.24 351.39 351.39 351.37	351.19 351.19 351.28 351.28 351.26	351.07 351.07 350.94 350.70 350.70	350.58 350.58 350.58 350.58 349.88	349.19 349.19 349.19 349.19 349.19	348.50 348.50 348.50 348.50 348.50	347.80 347.80 347.80 347.80 347.80	347.14 347.14 347.14 347.84 347.14	347.14 347.14 347.14 347.14 347.14
21 22 23 24 25	351.81 351.82 351.88 351.89 351.89	351.78 351.81 351.59 351.56	351.57 351.57 351.53 351.32 351.35	351.37 351.32 351.32 351.35 351.35	351.19 351.07 351.17 351.16 351.00	350.61 350.68 350.71 350.57 350.64	350.58 350.58 350.58 350.58 350.58	349.19 349.19 349.19 349.19 349.19	348.50 348.50 348.50 348.50 348.50	347.80 347.80 347.80 347.80 347.80	347.14 347.14 347.14 347.14 347.14	347.14 347.14 346.45 347.14 347.14
26 27 28 29 30 31	351.78 351.61 351.67 351.75 351.75 351.71	351.29 351.31 351.51 351.54 351.54	351.35 351.37 351.37 351.33 351.38 351.42	351.20 351.24 351.41 351.43 351.37 351.20	351.00 351.19 351.21 	350.65 350.71 350.72 350.72 350.67	350.58 350.58 350.58 350.58 350.58	349.19 349.19 349.19 349.19 349.19 349.19	348.50 348.50 348.50 348.50 348.50	347.80 347.80 347.80 347.80 347.80 347.80	347.14 347.14 347.14 347.14 347.14 347.14	347.14 347.14 347.14 346.45 346.45
LOW	352.04	351.81	351.57	351.50	351.40	351.21	350.58	350.58	349.19	348.50	347.84	347.14
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM	, WATER Y	EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	347.14 347.14 346.45	346.45	346.45	345.76		345.62		344.93	342.85	342.09	341.40	
5	346.45 346.45	346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45	346.45 345.76 345.76 346.45	346.45 346.45 346.45 345.76	345.62 345.62 345.62 345.62	345.62 345.62 345.62 345.62 345.62	344.93 344.93 344.93 344.93	342.85 342.85 342.85 342.85 342.78	342.09 342.09 342.09 342.09	341.40 341.40 341.40 341.40	340.70 340.70 340.70 340.70 340.70
6 7 8 9	346.45	346.45 346.45	346.45 346.45	345.76 345.76	346.45 346.45 346.45	345.62 345.62 345.62	345.62 345.62 345.62	344.93 344.93 344.93	342.85 342.85 342.85	342.09 342.09	341.40 341.40 341.40	340.70 340.70 340.70
6 7 8 9	346.45 346.45 347.14 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	345.76 345.76 346.45 346.45 346.45 346.45 345.76 345.76	346.45 346.45 346.45 345.76 345.76 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	344.93 344.93 344.93 344.93 344.24 344.24 344.24 344.24 344.24	342.85 342.85 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78	342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09	341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40	340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70
6 7 8 9 10 11 12 13 14	346.45 347.14 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.576	345.76 345.76 346.45 346.45 346.45 346.45 345.76 345.76 345.76 345.76	346.45 346.45 345.76 345.76 345.62 345.62 345.62 345.62 346.31 346.31 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	344.93 344.93 344.93 344.93 344.24 344.24 344.24 344.24 344.24 344.24 345.24	342.85 342.85 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78	342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09	341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40	340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70
6 7 8 9 10 11 12 13 14 15 16 17 18	346.45 347.14 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 345.76 345.76 345.76 346.45	345.76 346.45 346.45 346.45 346.45 345.76 345.76 345.76 345.76 345.76 345.76 345.76 345.76 345.76	346.45 346.45 346.45 345.76 345.76 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 349.62	344.93 344.93 344.93 344.24 344.24 344.24 344.24 344.24 345.24 345.24 343.54 343.54 343.54 343.54 343.54	342.85 342.85 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78	342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 341.40 341.40 341.40	341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40	340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	346.45 347.14 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45	346.45 346.45 346.45 346.45 346.45 346.45 346.45 346.45 345.76 345.76 345.76 346.45 346.45 346.45 346.45 346.45 346.45 346.45	345.76 346.45 346.45 346.45 346.45 345.76 345.76 345.76 345.76 345.76 345.76 345.76 345.76 345.76 345.76	346.45 346.45 346.45 345.76 345.76 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62	345.62 345.62	345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 345.62 344.93 344.93 344.93 344.93 344.93 344.93	344.93 344.93 344.93 344.24 344.24 344.24 344.24 344.24 343.54 343.54 343.54 343.54 343.54 343.54 343.54 343.54 343.54 343.54	342.85 342.85 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.78 342.09 342.09 342.09 342.09 342.09 342.09	342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 342.09 341.40 341.40 341.40 341.40 341.40	341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40 341.40	340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70 340.70

SITE	NUMBE	ER 36—C	Continue	d								
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	340.70 340.70	340.70 340.70	340.01 340.01	340.01 340.01	340.01 340.01	339.32 339.32	340.01 340.01	339.32 339.32				
3	340.70	340.70	340.01	340.01	340.01	339.32	340.01	339.32				
4 5	340.70 340.70	340.70 340.70	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 339.32	340.01 339.32				
6	340.70	340.70	340.01	340.01	340.01	340.01	339.32	339.32				
7	340.70	340.01	340.01	340.01	340.01	340.01	340.01	339.32				
8 9	340.70 340.70	340.70 340.70	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	339.32 339.32				
10	340.70	340.70	340.01	340.01	340.01	340.01	340.01	339.32	336.50			
11	340.70	340.70	340.01	340.01	340.01	340.01	340.01	339.32				
12 13	340.70 340.70	340.70 340.70	340.01 340.01	340.01 340.01	340.01 339.32	340.01 340.01	340.01 340.01	338.62 338.62				333.93
14 15	340.70 340.70	340.70 340.01	340.01 340.70	340.01 340.01	340.01 340.01	340.01 340.01	339.32 340.01	338.62 338.62				
16 17	340.70 340.70	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	339.32 340.01	340.01 340.01	338.62 337.93				
18 19	340.70 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	337.93 337.93				333.80
20	340.01	340.01	340.01	340.01	340.01	340.01	340.01	337.93				334.18
21	340.70	340.01	340.01	340.01	340.01	340.01	339.32	337.93				334.18
22 23	340.70 340.70	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01	337.93 337.93				333.48 333.48
24	340.70	340.70	340.01	340.01	340.01	340.01	340.01					333.48
25	340.01	340.70	340.01	340.01	340.01	340.01	340.01				334.90	333.48
26 27	340.01 340.70	340.70 340.70	340.01 340.01	340.01 340.01	340.01 339.32	340.01 340.01	340.01 340.01					333.48 333.48
28	340.70	340.01	340.01	340.01	339.32	340.01	339.32					333.48
29 30	340.01 340.01	340.01 340.01	340.01 340.01	340.01 340.01		340.01 340.01	339.32 339.32					333.48 333.48
31	340.70		340.01	340.01		340.01						
LOW	340.70	340.70	340.70	340.01	340.01	340.01	340.01	340.01	336.50		334.90	334.18
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333.62	333.22	332.87	332.60	332.39	332.25	332.04	331.63	330.86	330.29	329.46	329.12
2 3	333.55 333.35	333.29 333.36	332.94 332.94	332.46 332.53	332.32 332.46	332.32 332.25	332.18 332.25	331.56 331.49	330.80 330.86	330.16 330.16	329.46 329.46	328.98 329.02
4 5	333.41 333.41	333.22 333.36	332.80 332.94	332.53 332.46	332.32 332.25	332.11 332.11	332.25 332.04	331.35 331.35	330.80 330.80	330.16 330.09	329.46 329.53	328.98 328.98
6	333.48	333.36	332.87	332.60	332.39	332.18	332.04	331.28	330.86	330.09	329.46	328.98
7	333.35	333.29	332.67	332.60	332.32	332.18	332.04	331.28	330.86	330.16	329.39	329.05
8 9	333.14 333.35	333.15 333.29	332.60 332.60	332.39 332.39	332.25 332.32	332.32 332.39	332.11 332.18	331.28 331.28	330.66 330.73	330.09 330.09	329.32 329.39	328.91 328.91
10	333.41	333.15	332.80	332.46	332.39	332.39	332.25	331.28	330.66	330.02	329.46	328.84
11	333.21	333.01	333.01	332.39	332.46	332.53	332.18	331.21	330.59	330.02	329.39	328.91
12 13	333.00 333.21	333.01 332.87	333.08 333.01	332.39 332.46	332.46 332.32	332.39 332.32	331.83 331.90	331.07 331.14	330.66 330.73	329.88 329.88	329.39 329.39	328.91 328.77
14 15	333.41 333.55	332.94 333.15	333.01 332.87	332.53 332.46	332.32 332.18	332.39 332.39	332.04 332.04	331.07 331.07	330.59 330.66	329.81 329.88	329.32 329.19	328.77 328.91
16 17	333.62 333.48	333.22 333.15	332.87 332.80	332.39 332.46	332.18 332.25	332.32 332.18	332.04 332.11	331.21 331.14	330.52 330.57	329.95 329.88	329.12 329.12	328.91 328.84
18 19	333.28 333.41	333.08 333.08	332.74 332.80	332.46 332.53	332.18 332.32	332.18 332.32	332.11 332.04	331.14 331.21	330.57 330.36	329.81 329.74	329.19 329.12	328.77 328.56
20	333.41	332.94	332.80	332.18	332.32	332.32	332.11	331.21	330.36	329.67	329.32	328.70
21	333.41	332.94	332.53	332.39	332.25	332.25	332.25	331.14	330.43	329.67	329.26	328.77
22 23	333.21 333.00	332.94 333.01	332.67 332.67	332.46 332.46	332.11 332.25	332.18 332.18	332.25 332.11	331.00 331.00	330.50 330.36	329.74 329.74	329.19 329.12	328.77 328.77
24	333.00	333.01	332.60	332.39	332.32	332.18	331.90	331.00	330.29	329.67	328.98	328.77
25	333.21	332.94	332.67	332.39	331.97	332.11	331.77	331.07	330.29	329.67	329.12	328.63
26 27	333.14 333.07	333.01 332.67	332.74 332.67	332.53 332.53	331.90 332.04	332.04 332.04	331.90 331.97	331.00 330.93	330.23 330.23	329.67 329.74	329.05 329.05	328.56 328.77
28 29	333.07 333.00	332.87 333.01	332.60	332.46 332.53	332.18	332.04	332.04 331.90	331.00 331.07	330.29 330.29	329.60 329.53	329.19 329.19	328.77 328.77
30	332.93	333.01	332.60 332.60	332.39		332.04 332.04	331.77	330.86	330.36	329.53	329.12	328.70
31	333.08		332.74	332.39		332.04		330.93		329.53	329.05	

332.53 332.25 331.63

330.86

330.29

329.53

332.60 332.46

329.12

LOW

333.62 333.36

333.08

SITE NUMBER FROM LOCATION MAP.—37.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N8E19AAAB.

SITE ID (STATION NUMBER).—440216103114101.

OTHER IDENTIFIERS.—PE-95B and Scales.

LOCATION.—Lat 44°02′15.6″, long 103°11′41.4″, in NW¹/4NE¹/4NE¹/4NE¹/4 sec. 19, T. 1 N., R. 8 E., Hydrologic Unit 10120110, 1 mi south of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Inyan Kara.

WELL CHARACTERISTICS.—Drilled observation well, 600 ft deep with 560 ft of 5-in. steel casing; 3-in., 18-slot, schedule 80 well screen from 560 to 600 ft.

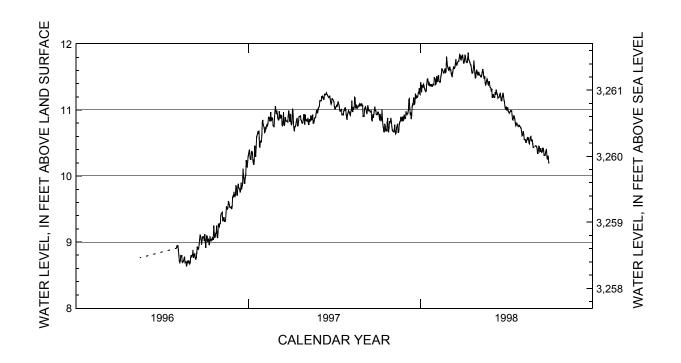
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,249.7 ft above sea level. Measuring point: Top of steel casing, 1.50 ft above land-surface datum.

REMARKS.—Records fair.

PERIOD OF RECORD.—May 1996 to September 1998.

EXTREMES.—Highest daily water level, 11.87 ft above land-surface datum, Apr. 12, 1998; lowest daily water level, 8.74 ft above land-surface datum, Sept. 11, 1996.



WATER LEVEL,	IN FEET	ABOVE	LAND.	-SURFACE	DATUM,	WATER	YEAR	OCTOBER	1995	TO	SEPTEMBER	1996
				DAILY	LOWEST	VALUE	S					

					DAILY	LOWEST	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											+8.91	+8.80
2											+8.94	+8.77
3											+8.93	+8.80
4											+8.95	+8.80
5											+8.88	+8.88
6											+8.79	+8.76
7											+8.71	+8.78
8											+8.69	+8.82
9											+8.72	+8.82
10											+8.79	+8.75
10											.0.75	10.75
11											+8.78	+8.74
12											+8.80	+8.76
13											+8.70	+8.84
14											+8.69	+8.93
15								e+8.76			+8.71	+8.90
13								210.70			10.71	10.50
16											+8.71	+8.89
17											+8.75	e+8.90
18											+8.78	+8.96
19											+8.69	+9.03
20											+8.70	+9.11
21											+8.70	+9.09
22											+8.63	+9.05
23											+8.66	+8.96
24											+8.71	+9.01
25											+8.71	+9.07
26											+8.68	+9.08
27											+8.72	+9.08
28											+8.70	+9.06
29											+8.67	+9.02
30											+8.69	+9.12
31										e+8.91	+8.77	
31										E+0.91	+0.//	
LOW								+8.76		+8.91	+8.63	+8.74
		WATER LEVEL,	IN FEET	ABOVE	LAND-SURFACE DAILY		WATER YEA	AR OCTOBER	1996 T	CO SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+9.00 +8.91 +9.03 +9.10 +9.08	+9.28 +9.28 +9.40 +9.43 +9.44	+9.76 +9.70 +9.69 +9.72 +9.86	+10.33 +10.38 +10.40 +10.29 +10.25	+10.77 +10.75 +10.73 +10.66 +10.67	+10.94 +10.99 +10.93 +10.87 +10.85	+10.79 +10.77 +10.81 +11.02 +10.99	+10.93 +10.85 +10.84 +10.85 +10.83	+11.14 +11.14 +11.14 +11.14 +11.21	+11.12 +11.05 +11.02 +11.02 +11.05	+10.99 +10.97 +10.97 +10.93 +10.92	+10.90 +10.90 +10.90 +11.01 +11.04
6 7 8 9 10	+9.01 +9.02 +9.05 +8.96 +8.96	+9.45 +9.32 +9.32 +9.37 +9.37	+9.82 +9.71 +9.71 +9.84 +9.88	+10.25 +10.35 +10.38 +10.35 +10.24	+10.73 +10.72 +10.76 +10.78 +10.76	+10.85 +10.98 +10.89 +10.87 +10.93	+10.81 +10.72 +10.68 +10.75 +10.75	+10.85 +10.88 +10.78 +10.78 +10.86	+11.19 +11.21 +11.20 +11.16 +11.16	+11.05 +11.07 +11.06 +11.09 +11.13	+10.98 +10.99 +11.14 +11.01 +10.97	+11.05 +11.02 +10.96 +10.94 +11.01
11 12 13 14 15	+9.09 +9.03 +9.02 +9.04 +9.03	+9.31 +9.31 +9.32 +9.44 +9.54	+9.82 +9.81 +9.80 +9.75 +9.79	+10.19 +10.17 +10.23 +10.46 +10.31	+10.80 +10.89 +10.89 +10.88 +10.83	+10.90 +10.92 +10.77 +10.76 +10.81	+10.76 +10.81 +10.85 +10.88 +10.76	+10.82 +10.85 +10.92 +10.85 +10.85	+11.24 +11.24 +11.23 +11.24 +11.26	+11.09 +11.07 +11.00 +10.98 +10.99	+11.03 +11.02 +11.04 +11.19 +11.18	+11.07 +11.02 +10.99 +11.00
16 17 18 19 20	+9.06 +9.04 +9.04 +9.25 +9.13	+9.51 +9.50 +9.52 +9.62 e+9.60	+9.90 +9.80 +9.84 +9.87 +10.11	+10.29 +10.43 +10.59 +10.62 +10.64	+10.86 +10.97 +10.84 +10.85 +10.88	+10.97 +10.78 +10.76 +10.83 +10.89	+10.76 +10.83 +10.90 +10.90 +10.90	+10.90 +10.93 +10.80 +10.80 +10.83	+11.24 +11.23 e+11.21 +11.20 +11.19	+11.01 +11.01 +10.92 +10.94 +10.94	+11.04 +11.02 +11.08 +11.04 +11.03	+10.97 +10.97 +10.98 +10.86 +10.83
21 22 23 24 25	+9.06 +9.08 +9.13 +9.13 +9.25	+9.57 +9.53 +9.52 +9.52 +9.53	+10.01 +9.96 +9.89 +9.89 +9.98	+10.68 +10.64 +10.69 +10.45 +10.43	+10.87 +10.76 +10.76 +10.74 +10.89	+10.84 +10.83 +10.83 +10.83	+10.92 +10.85 +10.84 +10.81 +10.80	+10.88 +10.88 +10.89 +10.94 +10.99	+11.20 +11.21 +11.17 +11.12 +11.09	+10.93 +10.99 +11.01 +10.99 +11.04	+11.04 +11.06 +11.07 +11.09 +11.06	+10.90 +10.94 +10.88 +10.95 +11.00
26 27 28 29 30 31	+9.09 +9.06 +9.15 +9.28 +9.25 +9.23	+9.50 +9.54 +9.68 +9.70 +9.68	+10.02 +10.24 +10.15 +10.14 +10.22 +10.30	+10.53 e+10.53 +10.51 +10.62 +10.82 +10.85	+10.98 +11.06 +10.99 	+10.90 +10.99 +10.94 +10.83 +10.83	+10.81 +10.85 +10.93 +10.93 +10.78	+11.00 +10.95 +10.98 +11.03 +11.04 +11.06	+11.11 +11.18 +11.16 +11.16 +11.14	+11.01 +10.93 +10.88 +10.85 +10.94 +10.95	+11.07 +11.09 +11.07 +11.09 +11.07	+11.05 +10.99 +10.99 +10.93 +10.93
LOW	+8.91	+9.28	+9.69	+10.17	+10.66	+10.76	+10.68	+10.78	+11.09	+10.85	+10.92	+10.83

e Estimated

SITE NUMBER 37—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+10.93 +10.97 +10.97 +10.95 +10.92	+10.74 +10.69 +10.68 +10.68 +10.67	+10.98 +10.94 +10.93 +10.95 +10.95	+11.42 +11.36 +11.27 +11.38 +11.36	+11.47 +11.39 +11.40 +11.51 +11.43	+11.61 +11.60 +11.65 +11.65 +11.61	+11.78 +11.71 +11.71 +11.75 +11.84	+11.56 +11.54 +11.58 +11.54 +11.56	+11.32 +11.19 +11.19 +11.24 +11.21	+11.02 +11.05 +11.00 +11.01 +11.04	+10.73 +10.73 +10.68 +10.61 +10.62	+10.46 +10.45 +10.45 +10.42
6	+10.84	+10.70	+11.00	+11.34	+11.43	+11.61	+11.81	+11.53	+11.19	+10.98	+10.65	+10.34
7	+10.94	+10.78	+11.16	+11.39	+11.51	+11.56	+11.76	+11.53	+11.19	+10.97	+10.68	+10.34
8	+10.89	+10.67	+11.17	+11.37	+11.53	+11.53	+11.73	+11.51	+11.27	+10.95	+10.62	+10.40
9	+10.83	+10.64	+11.03	+11.32	+11.44	+11.50	+11.72	+11.50	+11.23	+10.96	+10.55	+10.45
10	+10.87	+10.66	+10.94	+11.32	+11.43	e+11.56	+11.72	+11.50	+11.31	+10.98	+10.55	+10.44
11	+11.01	+10.74	+10.95	+11.29	+11.42	e+11.61	+11.79	+11.54	+11.28	+10.99	+10.55	+10.37
12	+10.85	+10.76	e+10.86	+11.28	+11.43	+11.66	+11.87	+11.58	+11.24	+10.98	+10.51	+10.38
13	+10.77	+10.79	e+10.92	+11.29	+11.51	+11.63	+11.76	+11.62	+11.24	+10.99	+10.51	+10.42
14	+10.73	+10.66	+11.05	+11.39	+11.54	+11.63	+11.75	+11.57	+11.18	+10.93	+10.54	+10.37
15	+10.67	+10.66	+11.09	+11.46	+11.63	+11.66	+11.73	+11.51	+11.19	+10.86	+10.57	+10.36
16	+10.67	+10.70	+11.08	+11.47	+11.61	+11.71	+11.70	+11.47	+11.19	+10.85	+10.59	+10.37
17	+10.79	+10.79	+11.19	+11.43	+11.60	+11.77	+11.68	+11.51	+11.21	+10.89	+10.56	+10.42
18	+10.75	+10.82	+11.16	+11.39	+11.57	+11.68	+11.68	+11.40	+11.24	+10.92	+10.57	+10.42
19	+10.69	+10.83	+11.08	+11.41	+11.56	+11.68	+11.61	+11.38	+11.26	+10.89	+10.50	+10.39
20	+10.70	+10.89	+11.12	+11.38	+11.57	+11.71	+11.56	+11.41	+11.19	+10.86	+10.49	+10.31
21	+10.68	+10.89	+11.25	+11.36	+11.61	+11.73	+11.56	+11.44	+11.14	+10.80	+10.55	+10.31
22	+10.81	+10.83	+11.17	+11.39	+11.63	+11.74	+11.58	+11.47	+11.14	+10.76	+10.59	+10.31
23	+10.88	+10.85	+11.21	+11.36	+11.57	+11.74	+11.64	+11.45	+11.18	+10.78	+10.60	+10.35
24	+10.69	+10.90	+11.19	+11.39	+11.58	+11.79	+11.75	+11.39	+11.22	+10.80	+10.54	+10.38
25	+10.66	+10.84	+11.19	+11.36	+11.81	+11.84	+11.64	+11.38	+11.26	+10.78	+10.53	+10.41
26 27 28 29 30 31	+10.73 +10.83 +10.81 +10.83 +10.88 +10.81	+10.85 +10.93 +10.90 +10.87 +10.87	+11.21 +11.26 +11.27 +11.33 +11.25 +11.24	+11.36 +11.39 +11.39 +11.38 +11.50 +11.47	+11.73 +11.66 +11.64	+11.83 +11.77 +11.76 +11.81 +11.80 +11.84	+11.55 +11.48 +11.50 +11.57 +11.61	+11.43 +11.43 +11.35 +11.34 +11.33	+11.21 +11.15 +11.12 +11.05 +11.02	+10.77 +10.75 +10.76 +10.77 +10.75	e+10.54 +10.48 +10.43 	+10.29 +10.25 +10.31 +10.29 +10.19
LOW	+10.66	+10.64	+10.86	+11.27	+11.39	+11.50	+11.48	+11.28	+11.02	+10.75	+10.43	+10.19

e Estimated

SITE NUMBER FROM LOCATION MAP.—38.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E29CADD.

SITE ID (STATION NUMBER).—440052103181201.

OTHER IDENTIFIERS.—PE-84A and Countryside.

LOCATION.—Lat 44°00′53.6″, long 103°18′10.4″, in SE¹/4SE¹/4NE¹/4SW¹/4 sec. 29, T. 1 N., R. 7 E., Hydrologic Unit 10120110, 3 mi southwest of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled observation well, 940 ft deep with 895 ft of 5-in. steel casing; open hole from 895 to 940 ft.

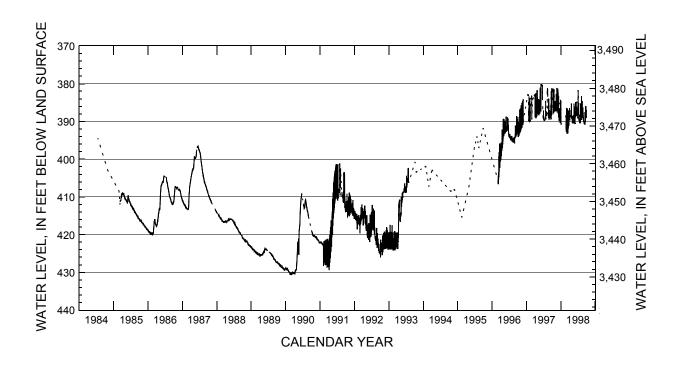
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,861.2 ft above sea level. Measuring point: Top of steel casing, 1.50 ft above land-surface datum.

REMARKS.—Available records fair. Water levels affected by pumping of nearby well since 1991.

PERIOD OF RECORD.—July 1984 to September 1998.

EXTREMES.—Highest daily water level, 380.12 ft below land-surface datum, June 6, 1997; lowest daily water level, 430.60 ft below land-surface datum, Feb. 27, 1990.



SITE NUMBER 38—Continued
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			e408.06									
2												
3								e407.16				
4												
5												
3												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15					e415.46						e397.06	
16												
17												
18	e408.52											
19												
20												
21												
22												
23												
24												
25												
26										e393.96		
27									e397.16			
28												
29												e391.75
30												
31												
LOW	408.52		408.06		415.46			407.16	397.16	393.96	397.06	391.75

e Estimated

WAII	LK.	LEVEL,	ΤIΛ	LFFI	BETOM	LAND-SURFACE	DAIUM,	WAILK	YEAR	OCTOBER	1995	10	SEPIEMBER	T990	
						DAILY	LOWEST	VALUE	S						

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							400.19	393.89	391.69	393.98	393.99	394.46
2							396.23	392.27	391.36	394.08	394.62	394.38
3							400.17	393.84	392.04	393.79	394.80	394.30
4							400.23	391.93	391.32	394.00	394.87	394.00
5							399.44	393.90	391.32	394.21	394.95	393.19
6							399.44	393.65	391.27	394.37	395.16	391.11
7						405.86	399.42	390.20	391.38	393.50	395.31	393.26
8						406.53	395.60	393.20	391.77	394.15	395.39	393.97
9						404.36	397.89	389.35	392.45	393.77	395.38	394.15
10						406.60	399.18	393.27	392.41	393.32	394.53	393.88
11						404.48	395.74	390.08	392.18	394.28	394.65	393.45
12						405.46	397.65	393.13	391.90	393.79	395.22	393.05
13						403.51	395.95	392.04	391.72	394.40	395.51	393.16
14						404.77	397.79	393.04	388.90	394.42	395.27	391.97
15						399.28	395.75	392.84	391.57	394.17	395.36	393.31
16						403.98	397.52	392.84	390.74	394.25	394.36	393.66
17						400.51	392.70	392.53	391.59	394.62	394.76	392.68
18						403.31	397.00	389.86	390.99	394.81	394.90	393.39
19						398.19	392.15	392.98	391.35	394.61	395.14	388.59
20						402.11	396.79	393.21	389.28	394.68	394.31	392.60
21						396.44	397.03	390.32	392.04	394.94	394.69	391.94
22						401.68	397.05	392.93	391.31	394.99	395.18	393.13
23						395.86	395.84	390.22	390.93	394.69	395.43	393.07
24						402.32	396.03	392.91	391.66	394.92	395.43	389.80
25						396.48	395.14	391.11	392.32	394.74	395.54	393.01
26						401.41	394.59	392.65	392.86	395.00	395.68	390.13
27						399.02	395.32	391.83	393.20	393.88	395.57	392.44
28						400.42	394.58	392.73	393.58	394.89	395.63	390.88
29						400.13	394.44	388.91	393.84	394.19	395.78	393.16
30						400.59	389.34	391.98	393.86	394.88	394.10	392.69
31						399.25		388.77		394.35	394.33	
LOW						406.60	400.23	393.90	393.86	395.00	395.78	394.46

SITE	NUMBI	ER 38—C	ontinue	i								
		WATER LEVE	CL, IN FE	ET BELOW		FACE DATUM AILY LOWE:			BER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	389.40 393.56 388.85 392.74 393.69	392.36 389.59 392.19 392.19 387.30	 		390.08 388.15 390.18 389.64	 	383.20 388.74 382.75 388.95	384.58 384.31 384.31 388.03 384.85	381.26 387.32 384.28 380.20 380.49	388.89 387.10 388.73 389.52	387.36 388.55 388.40 388.48	387.00 389.17 389.11
6 7 8 9 10	394.09 393.00 390.22 393.39 391.80	391.59 385.75 391.69 388.70 391.82	 	 	383.86 390.08 385.87 390.07	383.91 	387.52	384.30 384.10 384.31 384.31 388.22	380.12 380.32 380.32 380.33 380.52	389.57 389.74 389.49 389.65 389.79	387.94 387.94 382.47	387.67 389.05
11 12 13 14 15	393.21 393.18 393.67 393.81 393.49	391.10 390.99 391.65 385.10 391.43	 	 382.86	387.50 	384.01	382.50 389.18 386.92 388.40 384.74	384.31 385.32 387.57 388.32 387.96	380.52 380.29 380.32 380.36 380.37	389.88 389.89 389.88 	381.91 381.32 381.32 381.91 383.11	
16 17 18 19 20	393.60 390.77 393.22 390.60 392.89	390.43	 	 	 383.70 	 	388.78 388.78 388.53	384.31 384.31 384.31 384.30 384.30	380.53 380.53 380.33 380.54 384.00	 389.18	 	385.79 389.48 389.18
21 22 23 24 25	391.09 393.14 386.89 392.62 387.06	384.64 385.55 390.84 390.84	 	382.92 389.80	384.08 	 	388.54 381.89 388.27 381.89 381.89	384.30 387.83 387.83 384.31 384.27	 	389.01 389.01 389.46 384.64		389.20 381.97 383.25 388.43 385.50
26 27 28 29 30 31	392.49 389.39 392.79 386.56 392.71 387.06	386.96 390.40 384.17 389.84	 		383.18 389.47 	382.92 383.15 383.12	381.89 388.01 384.30 384.19 387.54	387.32 381.90 381.32 381.02 387.32 381.03	388.72 388.99 389.08 389.13	388.98 389.47 388.09	384.00 388.28 389.21 389.08 389.52 389.22	381.43 381.33 381.32 381.40 381.91
LOW	394.09	392.36		389.80	390.18	384.01	389.18	388.32	389.13	389.89	389.52	389.48
		WATER LEVE	L, IN FE	ET BELOW		FACE DATUM AILY LOWE:		TEAR OCTOE	BER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	387.25 387.25 387.07		384.63 389.06 390.86 	 	392.61 389.95 392.51 386.45 392.77	388.19 386.45	389.32 389.05 390.22 390.47 389.80	390.48 390.49 386.03 388.89 388.82	389.14 387.96 388.33 381.74	388.56 385.40 387.71 388.60 388.00	389.98 389.89 390.09 390.14 390.27
6 7 8 9 10	388.12 387.11	386.85 384.78	383.10 383.33 388.88 383.40	 	 	389.72 393.10 393.24 392.85 392.87	389.23 389.72 	388.60 390.09 390.23 389.75 388.75	388.82 385.38 384.91 387.93	 385.34 385.34	386.65 388.94 383.35 387.17 389.56	390.52 390.52 390.36 390.02 390.55
11 12 13 14 15	381.47 381.41 381.42 385.02 384.56	387.02 387.18 382.89 382.90	389.61 389.85 389.34		 	390.81 392.70 386.68 392.66 392.07	388.69 388.33 388.86 388.68 388.47	390.06 389.33 388.39 388.83	388.61 388.05 388.50 388.00 388.26	388.44 389.41 389.46 389.83 389.95	388.32 388.51 387.89 388.93	390.69 390.71 390.74 387.60 389.87
16 17 18 19 20	387.68 385.61 381.99 387.54	387.08 383.87 381.15 386.94	387.36 389.12 386.60 389.84 387.69			393.11 389.10 392.47 387.68 392.02	388.76 386.99 388.39 388.89	389.70 389.62 390.41 390.42 389.90	388.45 386.68 387.95 384.80	389.74 389.97 390.04 390.14 390.13	384.61 388.93 389.06 388.78 387.32	389.81 389.93 389.92 389.96 390.22
21 22 23 24 25	384.87 381.66 381.66 	384.72 387.43 387.50 387.12 385.38	385.04 390.32		 388.46	389.52 391.62 390.44 391.43 387.78	388.63 388.39 385.23 385.50 389.14	388.77 385.32 388.72 388.27 388.77	388.40 387.98 386.60	390.39 390.30 390.44 388.88 388.28	388.62 388.55 388.50 388.32 386.34	386.37 388.68 385.90 388.79 387.17

388.73 392.15

390.71

392.15

390.86

390.42 387.47 390.12

390.39 384.55

390.42

387.05

385.17 381.33 382.31

381.72

387.50

390.88 387.12 390.73 390.59

391.11

393.24

389.52 389.97 390.31 390.28

389.14 385.21

390.44

387.76

388.72 389.02

389.79 389.92

389.92

388.94

388.82

389.05 388.85

386.94

390.74

388.76

389.45 389.61 388.96

389.84 390.52

390.52

389.27

389.36

389.47

389.72

388.09

389.07

389.07

390.49

LOW

386.75

384.58

386.85 385.80

388.12

SITE NUMBER FROM LOCATION MAP.—39.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E18AAAD.

SITE ID (STATION NUMBER).—440308103184601.

OTHER IDENTIFIERS.—PE-96A and Cleghorn.

LOCATION.—Lat 44°03′08.5″, long 103°18′47.5″, in SE¹/4NE¹/4NE¹/4NE¹/4 sec. 18, T. 1 N., R. 7 E., Hydrologic Unit 10120110, 1 mi west of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 200 ft deep with 90 ft of 5-in. steel casing; open hole from 90 to 200 ft.

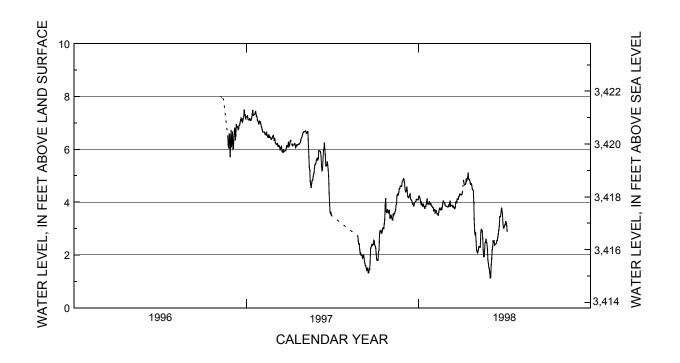
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,415.4 ft above sea level. Measuring point: Top of steel casing, 1.65 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—November 1996 to September 1998.

EXTREMES.—Highest daily water level, 8.0 ft (estimated) above land-surface datum, Nov. 7, 1996; lowest daily water level, 1.13 ft above land-surface datum, June 2, 1998.



SITE 1	NUMBI	ER 39—C	Continued									
		WATER LEV	EL, IN FEET	ABOVE		CE DATUM,		R OCTOBER	1996 Т	O SEPTEMBE	R 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				+7.24	+6.87	+6.32		+6.65	+5.57			+1.99
2 3				+7.23 +7.29	+6.82 +6.74	+6.41 +6.24	+6.15 +6.23	+6.64 +6.67	+5.66 +5.94			+2.00 +1.99
4				+7.13	+6.66	+6.21		+6.67	+5.94			+1.88
5			+6.50	+7.11	+6.66	+6.18	+6.34	+6.68	+5.95			+1.91
6			+6.71	+7.11	+6.65	+6.20		+6.70	+5.93			+2.02
7		e+8.0		+7.16	+6.65	+6.22		+6.67	+5.91			+1.91
8 9				+7.16 +7.09	+6.65 +6.56	+6.12 +6.11		+6.60 +6.61	+5.73 +5.37			+1.76 +1.66
10				+7.09	+6.56	+6.15	+6.16	+6.67	+5.19			+1.59
11			+6.85	+7.15	+6.54	+6.11	+6.16	+6.67	+5.22			+1.59
12				+7.21	+6.66	+6.12		+6.09	+5.60			+1.48
13 14		e+7.9	+6.85 +6.75	+7.33	+6.55 +6.51	+5.96 +6.01	+6.22 +6.19	+5.69 +5.34	+5.95 +6.02			+1.41 +1.44
15				+7.29	+6.46	+6.07		+5.22	+6.26			+1.52
16			+6.91	+7.29	+6.45	+6.10	+6.09	+4.78	+6.02			+1.32
17				+7.30		+5.92			+5.80			+1.32
18 19				+7.33	+6.43 +6.48	+5.89 +5.90		+4.54 +4.71	+5.35			+1.44 +1.45
20				+7.45	+6.44	+5.98		+4.71	+5.39			+1.45
21			+7.11	+7.33	+6.44	+5.90	+6.20	+4.83	+5.54			+2.24
22		+6.48	+7.13	+7.24	+6.38	+5.93	+6.18	+4.94	+5.41			+2.30
23		+6.15	+7.03	+7.23	+6.38	+5.95	+6.20	+5.07	+5.23			+2.31
24 25		+6.03 +6.57	+7.08 +7.17	+7.08 +7.07	+6.41 +6.49	+5.94 +5.94	+6.24 +6.26	+5.10 +5.30	+4.99 +4.35		+2.71	+2.42 +2.36
26		+6.56	+7.24	+7.00	+6.49	+6.04	+6.35	+5.43	+3.96		+2.51	+2.39
27		+5.70		+6.94		+6.15		+5.43	+3.65		+2.40	+2.40
28		+6.31		+7.08	+6.41	+6.09		+5.47	+3.58		+2.42	+2.55
29 30		+6.72 +6.08	+7.31 +7.13	+6.99		+6.09 +6.18	+6.51 +6.59	+5.60 +5.61	+3.63		+2.19 +2.06	+2.52 +2.36
31				+6.97		+6.29		+5.68			+2.07	
LOW		+5.70	+6.00	+6.94	+6.38	+5.89	+6.06	+4.54	+3.49		+2.06	+1.32
	WATER	LEVEL, IN	FEET BELOW	OR ABO		D-SURFACE LLY LOWEST		FER YEAR (OCTOBER	1997 TO SE	PTEMBER	1998
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+2.32	+3.39	+4.87	+4.20	+3.79	+3.84	+4.29	+2.74	+1.34	+3.01		
2	+2.26	+3.39		+4.23	+3.67	+3.84		+2.86	+1.13	+3.11		
3 4	+2.06 +1.83	+3.52 +3.47		+4.17	+3.68 +3.74	+3.81 +3.81	+4.30 +4.38	+2.53	+1.14	+3.14 +3.14		
5	+1.79	+3.41		+4.01	+3.59	+3.82		+2.12	+1.85	+3.28		
6	+1.79	+3.34		+3.93	+3.62	+3.88		+2.08	+2.17	+3.21		
7	+1.80	+3.32		+3.98	+3.69	+3.85		+2.12	+2.30	+3.11		
8 9	+2.13 +2.18	+3.54 +3.50		+3.89	+3.60 +3.55	+3.97 +4.05	+4.65 +4.65	+2.21 +2.32	+2.52 +2.50	+2.88		
10	+2.79	+3.57	+4.16	+3.88	+3.56	+3.83	+4.67	+2.32	+2.56			
11	+2.91	+3.57		+3.94	+3.50	+3.87	+4.71	+2.29	+2.37			
12	+2.89	+3.64	+4.20	+3.84	+3.50	+3.88	+4.89	+2.29	+2.39			
13 14	+2.92 +2.82	+3.69 +3.89	+4.28 +4.31	+3.84	+3.64 +3.74	+3.88 +3.86	+4.81 +4.87	+2.86 +2.96	+2.41			
15	+2.82	+3.94	+4.11	+3.83	+3.77	+3.79	+4.95	+2.95	+2.44			
16	+2.91	+4.20	+4.09	+3.83	+3.71	+3.86	+5.12	+2.91	+2.55			
17	+3.02	+4.29	+4.06	+3.90	+3.71	+3.79	+4.87	+2.63	+2.55			
18 19	+3.03	+4.26 +4.27	+4.03 +3.92	+4.01 +4.14	+3.76	+3.75	+4.87 +4.84	+2.17	+2.68			
20	+3.00	+4.27	+3.92	+3.95	+3.72 +3.81	+3.75 +3.81	+4.84	+1.93	+2.78			
21	+3.33	+4.51	+3.92	+3.91	+3.91	+4.01	+4.67	+2.11	+3.09			
22	+3.88	+4.51	+3.83	+3.94	+4.06	+4.03	+4.67	+2.47	+3.45			
23 24	+4.15 +3.66	+4.60 +4.61	+3.97 +3.99	+3.94	+4.00 +4.00	+3.99 +4.12	+4.69 +4.60	+2.48	+3.45			
25	+3.60	+4.59	+4.02	+3.91	+3.97	+4.11	+4.48	+2.46	+3.63			

+3.89

+3.85

+3.50

+4.10 +4.20

+4.20

+4.31

+3.75

+4.47 +4.42

+3.98

+3.37

+2.90

+2.90

+2.45 +2.21 +1.80

+1.67

+1.51 +1.45

+1.45

+3.79 +3.68

+3.53

+3.18

+3.01

+1.13

.36

LOW

+4.60 +4.76

+4.79

+4.84

+4.88

+3.32

+3.60 +3.71 +3.69

+3.61

+3.66

+3.68

+1.79

+4.01 +4.10

+4.11

+4.09 +4.08 +4.08

+3.83

+3.91 +3.96 +3.85

+3.85 +3.82 +3.79

+3.75

SITE NUMBER FROM LOCATION MAP.—40.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E8DDCD.

SITE ID (STATION NUMBER).—440310103173801.

OTHER IDENTIFIER.—Chapel Lane 1.

LOCATION.—Lat 44°03′12.4″, long 103°17′41.6″, in SE¹/4SW¹/4SE¹/4SE¹/4 sec. 8, T. 1N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: Chapel Lane Water Company.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled unused production well, 360 ft deep with 360 ft of 7-in. steel casing.

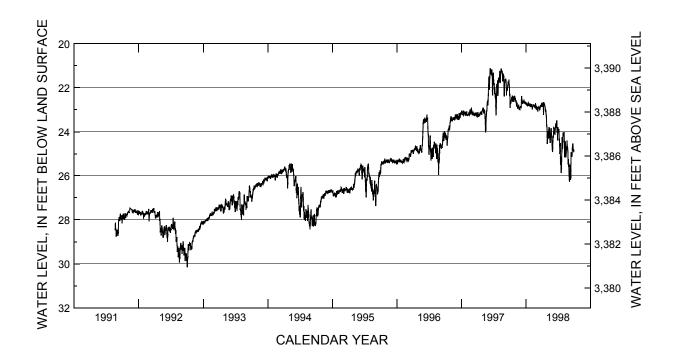
INSTRUMENTATION.—Electronic data logger with float.

DATUM.—Elevation of land-surface datum is 3,411.1 ft above sea level. Measuring point: Top of recorder platform, 2.0 ft above land-surface datum since June 2, 1997.

REMARKS.—Records good.

PERIOD OF RECORD.—August 1991 to September 1998.

EXTREMES.—Highest daily water level, 21.12 ft below land-surface datum, June 13, 1997; lowest water level, 30.16 ft below land-surface datum, Oct. 2, 1992.



SITE NUMBER 40—Continued

		WATER LEV	EL, IN FEE	T BELOW	LAND-SURFA	ACE DATUM		EAR OCTOBI	ER 1994 T	O SEPTEMBI	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	28.18 27.79 27.83 27.78 27.56	26.95 27.04 27.04 26.92 26.99	26.71 26.72 26.77 26.79 26.77	26.69 26.75 26.71 26.70 26.75	26.69 26.80 26.80 26.82 26.75	26.74 26.64 26.63 26.71 26.64	26.67 26.77 26.73 26.65 26.67	26.53 26.39 26.49 26.55 26.50	25.78 25.87 25.98 25.70 25.70	25.88 25.84 26.07 25.62 25.68	26.03 26.14 26.29 26.36 26.07	26.68 26.73 26.79 27.37 27.11
6 7 8 9 10	27.50 27.52 27.49 27.51 27.85	26.96 26.94 27.01 26.93 26.86	26.73 26.75 26.72 26.74 26.80	26.83 26.90 26.92 26.92 26.87	26.72 26.81 26.72 26.65 26.69	26.67 26.82 26.70 26.60 26.64	26.68 26.64 26.63 26.75 26.80	26.35 26.42 26.31 26.18 26.13	25.66 25.71 25.76 25.62 25.52	25.95 26.22 26.30 26.66 26.71	26.45 26.40 26.36 26.52 26.57	26.60 26.42 26.41 26.43 26.53
11 12 13 14 15	27.70 27.78 27.77 27.51 27.52	26.92 26.85 27.01 27.04 26.94	26.70 26.77 26.66 26.69 26.71	26.83 26.90 26.83 26.82 26.77	26.75 26.71 26.69 26.67 26.65	26.56 26.70 26.67 26.70 26.63	26.62 26.71 26.59 26.56 26.62	26.01 25.88 25.97 25.98 25.85	25.60 25.54 25.50 25.51 25.52	26.77 26.98 26.70 26.17 26.15	26.54 26.72 26.21 26.52 26.37	26.53 26.51 26.71 26.85 26.82
16 17 18 19 20	27.43 27.43 27.35 27.43 27.35	26.85 26.84 26.94 26.90 26.83	26.70 26.78 26.66 26.69 26.70	26.90 26.83 26.80 26.96 26.91	26.73 26.66 26.64 26.60 26.69	26.65 26.64 26.62 26.63 26.60	26.64 26.55 26.55 26.53 26.56	25.89 25.80 25.82 25.78 25.81	25.64 25.84 25.98 26.17 26.09	26.13 26.23 26.04 25.73 25.65	26.60 26.85 26.66 26.65 26.72	26.69 26.75 26.67 26.29 26.11
21 22 23 24 25	27.34 27.37 27.38 27.42 27.42	26.89 26.89 26.80 26.82 26.82	26.72 26.76 26.65 26.65 26.65	26.93 26.99 26.90 26.96 26.78	26.54 26.56 26.62 26.62 26.77	26.51 26.62 26.62 26.57 26.67	26.60 26.64 26.60 26.57 26.63	25.89 25.84 25.79 25.80 25.82	25.93 25.54 25.65 25.76 25.67	25.60 25.52 25.51 25.47 25.47	26.91 27.12 26.88 26.94 26.94	26.14 25.97 25.84 26.02 26.05
26 27 28 29 30 31	27.30 27.16 27.16 27.22 27.12 27.08	26.69 26.72 26.78 26.78 26.72	26.67 26.67 26.63 26.73 26.71 26.77	26.70 26.75 26.85 26.84 26.71 26.69	26.69 26.71 26.73 	26.67 26.77 26.67 26.65 26.68 26.60	26.61 26.60 26.58 26.64 26.57	25.70 25.70 25.72 25.78 25.81 25.73	25.74 25.77 25.80 25.73 25.74	25.63 25.91 25.91 26.05 25.94 25.99	26.67 26.80 26.69 26.23 26.50 26.83	25.93 25.93 25.79 25.75 25.93
LOW	28.18	27.04	26.80	26.99	26.82	26.82	26.80	26.55	26.17	26.98	27.12	27.37
		WATER LEV	EL, IN FEE	T BELOW	LAND-SURFA	ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMBI	ER 1996	
DAY	OCT	WATER LEV	EL, IN FEE	T BELOW				EAR OCTOBI	ER 1995 T JUN	O SEPTEMBI	ER 1996 AUG	SEP
DAY 1 2 3 4 5					DA	ILY LOWES	T VALUES					SEP 24.63 24.70 24.53 24.68 24.65
1 2 3 4	OCT 25.91 25.85 25.66 25.47	NOV 25.35 25.35 25.32 25.29	DEC 25.24 25.34 25.36 25.36	JAN 25.49 25.41 25.28 25.45	DA FEB 25.41 25.41 25.43 25.40	MAR 25.19 25.27 25.26 25.21	T VALUES APR 24.83 24.82 24.90 25.01	MAY 24.88 24.90 24.90 24.94	JUN 23.52 23.44 23.63 23.42	JUL 24.97 25.05 24.78 24.77	AUG 24.46 24.51 24.65 24.67	24.63 24.70 24.53 24.68
1 2 3 4 5 6 7 8 9	OCT 25.91 25.85 25.66 25.47 25.53 25.45 25.37 25.37 25.37	NOV 25.35 25.35 25.32 25.29 25.29 25.40 25.40 25.40 25.27	DEC 25.24 25.34 25.36 25.36 25.35 25.29 25.29 25.38 25.36	JAN 25.49 25.41 25.28 25.45 25.45 25.45 25.42 25.41 25.33 25.36	DA FEB 25.41 25.43 25.40 25.37 25.30 25.26 25.30 25.25	ILY LOWES MAR 25.19 25.27 25.26 25.21 25.29 25.34 25.36 25.30 25.25	APR 24.83 24.82 24.90 25.01 24.95 24.88 24.85 24.88 24.83	MAY 24.88 24.90 24.90 24.94 24.98 24.97 24.98	JUN 23.52 23.44 23.63 23.42 23.49 23.43 23.52 23.38 23.36	JUL 24.97 25.05 24.78 24.77 24.70 24.62 24.24 24.22 24.17	AUG 24.46 24.51 24.65 24.67 24.55 24.80 24.80 24.98	24.63 24.70 24.53 24.68 24.65 24.67 24.59 24.64 24.71
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 25.91 25.85 25.66 25.47 25.53 25.45 25.37 25.37 25.38 25.49 25.47 25.47	NOV 25.35 25.35 25.32 25.29 25.29 25.40 25.40 25.40 25.33 25.35 25.33	DEC 25. 24 25. 34 25. 36 25. 35 25. 29 25. 38 25. 36 25. 32 25. 29 25. 32	JAN 25.49 25.41 25.28 25.45 25.45 25.45 25.42 25.33 25.36 25.31 25.38 25.31 25.38	DA FEB 25.41 25.43 25.40 25.37 25.30 25.26 25.30 25.25 25.39 25.32 25.32 25.32	ILY LOWES MAR 25.19 25.27 25.26 25.21 25.29 25.34 25.36 25.30 25.25 25.26 25.17 25.04 25.05 25.05 25.05	T VALUES APR 24.83 24.82 24.90 25.01 24.95 24.88 24.85 24.88 24.83 24.80 24.83 24.83 24.83 24.83	MAY 24.88 24.90 24.94 24.98 24.97 24.94 24.97 24.98 24.77 24.75 24.69 24.61	JUN 23.52 23.44 23.63 23.42 23.49 23.43 23.52 23.38 23.36 23.59 23.47 23.43 23.46 23.50	JUL 24.97 25.05 24.78 24.77 24.70 24.62 24.24 24.24 24.27 24.85 24.84 24.96 25.31 24.77	AUG 24.46 24.51 24.65 24.67 24.55 24.80 24.80 24.89 24.98 24.67 24.55 24.91 24.89 25.24	24.63 24.70 24.53 24.68 24.65 24.65 24.67 24.71 24.77 24.72 24.71 24.73
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 25.91 25.85 25.66 25.47 25.53 25.45 25.37 25.37 25.38 25.47 25.45 25.45 25.45 25.45 25.45	NOV 25.35 25.32 25.32 25.29 25.29 25.40 25.40 25.40 25.33 25.33 25.33 25.33 25.33 25.33	DEC 25.24 25.34 25.36 25.35 25.29 25.29 25.38 25.36 25.32 25.29 25.29 25.39 25.39 25.34 25.41 25.34 25.34	JAN 25.49 25.41 25.28 25.45 25.45 25.45 25.42 25.41 25.33 25.36 25.31 25.31 25.38 25.38 25.30 25.38 25.37 25.38	DA FEB 25.41 25.43 25.40 25.37 25.30 25.26 25.30 25.25 25.39 25.40 25.32 25.25 25.36 25.32 25.24 25.25 25.36	ILY LOWES MAR 25.19 25.27 25.26 25.21 25.29 25.34 25.36 25.30 25.25 25.26 25.17 25.04 25.07 25.08 24.99	T VALUES APR 24.83 24.90 25.01 24.95 24.88 24.85 24.88 24.83 24.80 24.83 24.77 24.67 24.67 24.68 24.68 24.68	MAY 24.88 24.90 24.90 24.94 24.98 24.97 24.98 24.77 24.75 24.69 24.61 24.77 24.75 24.85 24.87	JUN 23.52 23.44 23.63 23.42 23.49 23.43 23.52 23.38 23.56 23.59 23.47 23.43 23.45 23.50 23.44 23.45 23.55 23.38 23.37	JUL 24.97 25.05 24.78 24.77 24.70 24.62 24.24 24.22 24.17 24.85 24.84 24.96 24.77 25.09 24.79 24.99 25.05 25.15	AUG 24.46 24.51 24.65 24.67 24.55 24.54 24.80 24.89 24.98 24.67 24.55 24.91 24.64 24.63 24.85 24.78	24.63 24.70 24.53 24.68 24.65 24.67 24.59 24.64 24.71 24.77 24.72 24.73 24.58 24.43 24.22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 25.91 25.85 25.66 25.47 25.53 25.45 25.37 25.37 25.37 25.37 25.47 25.45 25.47 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45 25.45	NOV 25.35 25.32 25.32 25.29 25.29 25.30 25.40 25.40 25.33 25.35 25.34 25.33 25.35 25.34 25.35 25.34 25.35 25.35 25.35 25.37 25.37 25.32	DEC 25. 24 25. 34 25. 36 25. 35 25. 29 25. 38 25. 36 25. 32 25. 29 25. 39 25. 39 25. 34 25. 34 25. 34 25. 34 25. 34 25. 34 25. 34 25. 35	JAN 25.49 25.41 25.28 25.45 25.45 25.45 25.41 25.33 25.36 25.31 25.31 25.36 25.31 25.36 25.30 25.38 25.38 25.38 25.38 25.38 25.38 25.38 25.38 25.38 25.38	DA FEB 25.41 25.43 25.40 25.37 25.30 25.26 25.39 25.40 25.32 25.32 25.36 25.25 25.36 25.25 25.36 25.25 25.36 25.27 25.16 25.18 25.20 25.21 25.18 25.20	ILY LOWES MAR 25.19 25.27 25.26 25.21 25.29 25.34 25.36 25.30 25.25 25.26 25.17 25.04 24.88 24.87 24.88	T VALUES APR 24.83 24.82 24.90 25.01 24.95 24.88 24.88 24.83 24.80 24.83 24.77 24.67 24.68 24.68 24.69 24.78	MAY 24.88 24.90 24.90 24.94 24.98 24.97 24.98 24.97 24.75 24.69 24.61 24.77 24.79 24.85 24.87 24.93	JUN 23.52 23.44 23.63 23.42 23.49 23.43 23.55 23.47 23.45 23.55 23.47 23.22 23.47 23.38 23.37 23.22	JUL 24.97 25.05 24.78 24.77 24.70 24.62 24.22 24.17 24.85 24.84 24.96 24.99 25.05 25.15 25.23 24.73 25.06 24.99	AUG 24.46 24.51 24.65 24.67 24.55 24.58 24.89 24.98 24.67 24.55 24.91 24.64 24.63 24.85 24.78 24.78 25.07	24.63 24.70 24.53 24.68 24.65 24.67 24.59 24.64 24.71 24.77 24.72 24.73 24.58 24.43 24.22 24.10 24.11

SITE NUMBER 40—Continued

		WATER LEVI	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOBI	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	24.09 24.30 24.06 24.17 24.18	23.41 23.39 23.29 23.42 23.34	23.25 23.39 23.32 23.34 23.23	23.12 23.14 23.04 23.17 23.24	23.25 23.21 23.25 23.27 23.27	23.13 23.05 23.15 23.19 23.18	23.33 23.33 23.19 23.11 23.13	22.97 22.96 23.07 22.93 22.93	22.80 22.56 22.32 21.91 21.60	21.39 21.59 21.67 21.88 21.80	21.64 21.76 21.68 21.68 21.45	22.40 21.77 21.79 21.78 21.62
6 7 8 9	24.37 24.19 24.19 24.21 24.27	23.36 23.50 23.43 23.53 23.46	23.35 23.43 23.40 23.28 23.21	23.21 23.09 23.13 23.08 23.18	23.24 23.21 23.26 23.23 23.23	23.15 23.13 23.19 23.25 23.15	23.27 23.31 23.31 23.23 23.25	22.97 23.10 23.16 23.06 23.16	21.49 21.68 21.58 22.09 21.57	21.82 22.08 22.29 22.03 22.21	21.27 21.28 21.39 21.79 21.67	21.68 21.62 21.61 21.61 21.66
11 12 13 14 15	24.35 24.63 24.50 24.42 24.30	23.52 23.46 23.45 23.35 23.37	23.36 23.29 23.33 23.47 23.40	23.23 23.25 23.16 23.04 23.26	23.21 23.17 23.20 23.24 23.25	23.15 23.15 23.23 23.24 23.23	23.24 23.25 23.18 23.28 23.22	23.13 23.04 23.05 23.19 23.42	21.50 21.24 21.12 21.14 21.17	22.26 22.41 22.52 22.27 22.83	21.40 21.28 21.20 21.13 21.24	21.67 21.88 22.35 22.07 22.12
16 17 18 19 20	24.27 24.09 23.94 23.90 23.88	23.45 23.42 23.40 23.37 23.46	23.30 23.47 23.33 23.26 23.16	23.22 23.17 23.12 23.21 23.09	23.18 23.09 23.07 22.99 23.09	23.22 23.27 23.29 23.21 23.14	23.22 23.19 23.13 23.13 23.10	23.31 23.93 24.03 23.52 23.96	21.23 21.40 21.25 21.28 21.21	23.26 23.19 22.64 22.42 21.94	21.23 21.29 21.23 21.24 21.28	21.99 22.14 22.10 22.02 21.99
21 22 23 24 25	23.94 23.91 23.86 23.76 23.73	23.41 23.33 23.48 23.45 23.45	23.26 23.28 23.37 23.35 23.35	23.11 23.15 23.10 23.17 23.26	23.05 23.17 23.16 23.18 23.06	23.23 23.26 23.19 23.21 23.22	23.14 23.12 23.09 23.14 23.11	23.52 23.25 23.15 23.09 23.02	21.40 21.17 21.47 21.39 21.62	21.83 22.24 21.88 21.88	21.36 21.48 21.71 21.65 21.45	21.88 21.86 21.72 21.80 21.76
26 27 28 29 30 31	23.93 23.85 23.71 23.57 23.59 23.47	23.45 23.40 23.25 23.26 23.26	23.21 23.13 23.20 23.16 23.21 23.13	23.22 23.28 23.20 23.25 23.11 23.08	23.02 22.91 23.01 	23.17 23.13 23.18 23.31 23.25 23.17	23.23 23.07 23.06 23.05 23.02	22.89 22.78 22.65 22.62 22.59 22.77	22.19 22.35 22.04 21.66 21.32	22.37 21.78 22.27 21.75 21.56 21.56	21.40 21.41 21.43 21.50 21.96 22.30	21.81 21.63 21.81 21.84 22.00
LOW	24.63	23.53	23.47	23.28	23.27	23.31	23.33	24.03	22.80	23.26	22.30	22.40
		WATER LEVI	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOBI	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEVI	EL, IN FE	ET BELOW				EAR OCTOBI	ER 1997 T JUN	O SEPTEMB JUL	ER 1998 AUG	SEP
DAY 1 2 3 4 5					DA	LILY LOWES	T VALUES					SEP 25.46 25.84 25.98 26.20 26.27
1 2 3 4	OCT 22.36 22.34 22.42 22.92	NOV 22.56 22.52 22.47 22.58	DEC 22.87 22.87 22.84 22.89	JAN 22.66 22.70 22.77 22.75	DA FEB 22.82 22.88 22.84 22.75	MAR 22.97 22.91 22.84 22.88	T VALUES APR 22.76 22.87 22.83 22.82	MAY 23.86 24.55 24.37 24.03	JUN 24.92 24.75 24.44 24.23	JUL 23.82 23.82 23.88 23.91	AUG 24.10 24.04 24.07 24.20	25.46 25.84 25.98 26.20
1 2 3 4 5 6 7 8 9	OCT 22.36 22.34 22.42 22.92 22.65 22.76 22.58 22.62 22.71	NOV 22.56 22.52 22.47 22.58 22.63 22.64 22.58 22.68 22.84	DEC 22.87 22.84 22.89 22.90 22.87 22.52 22.38 22.53	JAN 22.66 22.70 22.77 22.75 22.75 22.80 22.74 22.76 22.76	DA FEB 22.82 22.88 22.84 22.75 22.83 22.87 22.99 22.81 22.88	MAR 22.97 22.91 22.84 22.88 22.91 22.88 22.91 22.88 23.00 22.96 22.97 23.08	T VALUES APR 22.76 22.87 22.83 22.82 22.71 22.72 22.78 22.79 22.78	MAY 23.86 24.55 24.37 24.03 24.23 24.31 24.30 23.96 24.04	JUN 24.92 24.75 24.44 24.23 24.19 24.27 24.07 23.82 23.83	JUL 23.82 23.88 23.91 23.97 24.04 23.88 23.97 24.41	AUG 24.10 24.04 24.07 24.20 24.02 24.03 24.46 25.00 25.16	25.46 25.84 25.98 26.20 26.27 25.88 26.15 25.51 25.97
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 22.36 22.34 22.42 22.92 22.65 22.76 22.58 22.62 22.71 22.60 22.56 22.47	NOV 22.56 22.52 22.47 22.58 22.63 22.64 22.58 22.68 22.84 22.70 22.74 22.67 22.76 22.86	DEC 22.87 22.87 22.84 22.89 22.90 22.87 22.52 22.38 22.53 22.65 22.65 22.64	JAN 22.66 22.70 22.77 22.75 22.75 22.80 22.76 22.85 22.80 22.82 22.76 22.76	DA FEB 22.82 22.88 22.84 22.75 22.83 22.87 22.89 22.81 22.88 22.85 22.85 22.83 22.82	MAR 22.97 22.91 22.84 22.88 22.91 22.88 23.00 22.96 22.97 23.08 23.01 22.89 22.89	T VALUES APR 22.76 22.87 22.83 22.82 22.71 22.72 22.78 22.78 22.79 22.78 22.84 23.23 22.66 22.75 22.72	MAY 23.86 24.55 24.37 24.03 24.23 24.31 24.30 23.96 24.04 24.28 23.79 23.83 23.83	JUN 24.92 24.75 24.44 24.23 24.19 24.27 24.07 23.82 23.83 23.98 24.06 24.10 24.06 23.87	JUL 23.82 23.88 23.91 23.97 24.04 23.88 23.97 24.41 24.31 24.63 25.01 24.94 24.68	AUG 24.10 24.04 24.07 24.20 24.02 24.03 24.46 25.00 25.16 24.92 24.44 24.48 24.59 24.93	25.46 25.84 25.98 26.20 26.27 25.88 26.15 25.51 25.97 26.19 25.85 26.12 25.45 25.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 22.36 22.34 22.42 22.92 22.65 22.76 22.58 22.62 22.71 22.60 22.56 22.47 22.45 22.45 22.45 22.45 22.55	NOV 22.56 22.52 22.47 22.58 22.63 22.64 22.58 22.68 22.84 22.70 22.74 22.67 22.76 22.86 22.95 22.93 22.88	DEC 22.87 22.84 22.89 22.90 22.87 22.52 22.38 22.53 22.65 22.64 22.64 22.68 22.66 22.66 22.66 22.65 22.71	JAN 22.66 22.77 22.75 22.75 22.80 22.76 22.76 22.85 22.80 22.82 22.76 22.77 22.69	DA FEB 22.82 22.88 22.84 22.75 22.83 22.87 22.89 22.81 22.85 22.85 22.83 22.81 22.76 22.84 22.81 22.84	MAR 22.97 22.91 22.84 22.88 22.91 22.88 23.00 22.96 22.97 23.08 23.01 22.89 22.91 22.89 22.92 22.88 22.90	T VALUES APR 22.76 22.87 22.83 22.82 22.71 22.72 22.78 22.78 22.79 22.78 22.84 23.23 22.66 22.75 22.76 22.76 22.77 22.76	MAY 23.86 24.55 24.37 24.03 24.23 24.31 24.30 23.96 24.04 24.28 23.94 23.79 23.83 23.85 24.19 24.31 24.31 24.31	JUN 24.92 24.75 24.44 24.23 24.19 24.27 24.07 23.82 23.83 23.98 24.06 24.10 24.06 23.87 24.15	JUL 23.82 23.88 23.91 23.97 24.04 23.88 23.97 24.41 24.31 24.63 25.01 24.94 24.68 24.53	AUG 24.10 24.04 24.07 24.20 24.02 24.03 24.46 25.00 25.16 24.92 24.44 24.48 24.59 24.93 25.15 25.15 24.98 24.82 24.67	25.46 25.84 25.98 26.20 26.27 25.88 26.15 25.51 25.97 26.19 25.85 26.12 25.45 25.45 25.05 24.94 25.14 25.12
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 22.36 22.42 22.92 22.65 22.76 22.58 22.62 22.71 22.60 22.56 22.47 22.45 22.45 22.46 22.55 22.51 22.36 22.58 22.63 22.56 22.45 22.45 22.45 22.45	NOV 22.56 22.52 22.47 22.58 22.63 22.64 22.58 22.84 22.70 22.74 22.76 22.86 22.95 22.93 22.93 22.84 22.82	DEC 22.87 22.84 22.89 22.90 22.87 22.52 22.38 22.53 22.65 22.64 22.64 22.64 22.66 22.62 22.65 22.65 22.66 22.66 22.66 22.66 22.62 22.60 22.60	JAN 22.66 22.77 22.75 22.75 22.80 22.76 22.76 22.85 22.80 22.76 22.77 22.69 22.71 22.73 22.82 22.72 22.82	DA FEB 22.82 22.88 22.84 22.75 22.83 22.87 22.89 22.85 22.85 22.85 22.83 22.82 22.81 22.76 22.84 22.81 22.82 22.81 22.76	MAR 22.97 22.91 22.84 22.88 22.91 22.88 23.00 22.96 22.97 23.08 23.01 22.89 22.91 22.89 22.91 22.89 22.92 22.88 22.90 22.94 22.94 22.96 22.91 22.89 22.92	T VALUES APR 22.76 22.87 22.83 22.82 22.71 22.72 22.78 22.78 22.79 22.78 22.78 22.79 22.78 22.76 22.78 22.84 23.23 22.66 22.75 22.76 22.78 22.76 22.88 23.05 23.04 22.99 23.04	MAY 23.86 24.55 24.37 24.03 24.23 24.31 24.30 23.96 24.04 24.28 23.94 23.79 23.85 24.19 24.31 24.31 24.32 24.24 23.85	JUN 24.92 24.75 24.44 24.23 24.19 24.27 24.07 23.82 23.83 23.98 24.06 24.10 24.06 23.87 24.15 23.87 24.15 23.87 23.84 23.83 23.884 23.75 23.68 23.68 23.68 23.68	JUL 23.82 23.88 23.91 23.97 24.04 23.88 23.97 24.41 24.31 24.63 25.01 24.94 24.68 24.53 25.13 25.51 25.13 25.87 25.40 25.72 24.89 24.37	AUG 24.10 24.04 24.07 24.20 24.02 24.03 24.46 25.00 25.16 24.92 24.44 24.48 24.59 24.93 25.15 25.15 24.84 24.73 24.66 24.40 24.88	25.46 25.84 25.98 26.20 26.27 25.88 26.15 25.51 25.97 26.19 25.85 26.12 25.45 25.45 25.14 25.12 25.11 25.15 25.11 25.15 24.73 24.71 24.59

SITE NUMBER FROM LOCATION MAP.—41.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E8ADDD2.

SITE ID (STATION NUMBER).—440338103173302.

OTHER IDENTIFIERS.—PE-89A and Canyon Lake Mdsn.

LOCATION.—Lat 44°03′37.7″, long 103°17′34.9″, in SE¹/4SE¹/4SE¹/4NE¹/4 sec. 8, T. 1 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 700 ft deep with 630 ft of 6 3/8-in. steel casing; open hole from 630 to 700 ft.

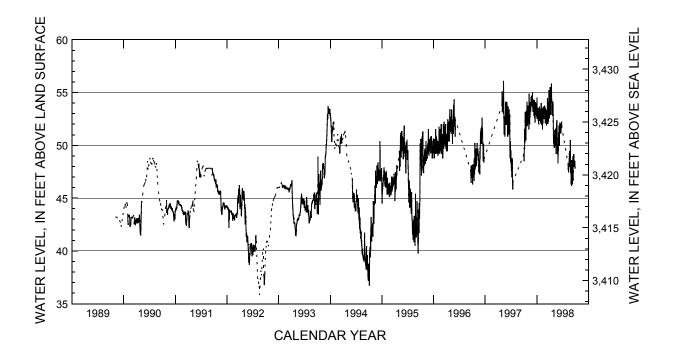
INSTRUMENTATION.—Electronic data logger with pressure transducer and calibrated test gage.

DATUM.—Elevation of land-surface datum is 3,372.8 ft above sea level. Measuring point: Top of steel casing, 4.0 ft above land-surface datum.

REMARKS.—Records for 1993-94 poor because of problems with recording equipment. Other records good. Water levels affected by pumping of nearby wells. Data corrected for antifreeze density difference beginning Oct. 1, 1994.

PERIOD OF RECORD.—November 1989 to September 1998.

EXTREMES.—Highest daily water level, 56.09 ft above land-surface datum, May 11, 1997; lowest daily water level, 35.84 ft (estimated) above land-surface datum, Aug. 19, 1992.



SITE NUMBER 41—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DA	AILY LOWE:	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	+38.63 +37.68	+42.60 +44.70	+46.36 +46.79	+45.46 +45.46	+46.40 +47.53	+45.53 +45.50	+46.38 +47.07		+49.86 +48.69	+48.64 +49.08	+43.93 +43.24	+41.28 +41.49
3 4	+38.58	+44.30 +42.97	+47.23 +48.16	+44.49	+46.82 +46.59	+45.50 +46.17	+46.82 +44.74		+50.30 +50.74	+49.54 +49.52	+42.99	+41.67 +41.86
5	+36.71	+42.55	+48.34	+45.62	+46.33	+45.48	+45.43	+49.45	+49.82	+49.06	+42.04	+41.58
6 7	+39.46 +39.90	+43.08 +43.13	+48.34 +47.63	+45.83 +45.80	+46.08 +45.83	+45.25 +45.46	+45.87 +45.64	+48.04 +47.58	+48.89 +51.41	+48.11 +47.88	+41.81 +41.56	+42.46 +44.72
8	+39.67	+44.56	+47.14	+46.24	+45.34	+45.46	+47.00	+49.42	+51.64	+46.73	+42.71	+44.44
9	+40.34	+44.37	+46.66	+46.22	+45.78	+45.66	+47.46	+49.40	+51.85	+46.01	+42.00	+43.70
10	+40.08	+44.42	+47.09	+46.43	+46.91	+45.90	+47.00	+48.46	+50.23	+46.01	+41.07	+42.27
11 12	+39.39 +40.29	+44.49 +45.23	+47.07 +46.59	+46.86 +46.84	+46.20 +46.40	+46.13 +47.03	+47.44 +45.83	+47.99 +49.15	+50.21 +49.98	+44.60 +44.83	+41.53 +41.28	+42.23 +41.49
13	+41.42	+46.17	+46.79	+46.59	+46.38	+46.10	+46.03	+50.97	+49.75	+44.81	+42.90	+40.75
14	+40.06	+45.78	+47.69	+47.03	+46.13	+45.62	+46.96	+49.59	+49.96	+46.66	+42.18	+40.70
15	+41.93	+45.39	+46.98	+47.46	+45.41	+45.85	+46.96	+49.10	+49.26	+45.48	+41.58	+39.76
16	+42.02	+44.49	+46.96	+47.90	+45.41	+47.00	+47.39	+51.18	+49.24	+44.56	+40.84	+40.61
17 18	+43.20 +42.80	+46.38 +47.58	+47.39 +46.93	+47.88 +46.96	+45.62 +46.31	+46.52 +45.83	+48.09 +47.14	+49.54 +48.85	+49.93 +48.99	+44.10 +44.53	+41.26 +43.29	+41.03 +42.60
19	+42.18	+46.26	+50.37	+46.68	+45.62	+46.73		+49.75	+48.06	+44.76	+41.86	+43.93
20	+41.28	+46.08	+49.40	+47.60	+46.06	+46.03		+50.21	+47.35	+44.74	+41.81	+43.68
21	+40.89	+47.05	+46.86	+47.58	+46.06	+46.26		+49.75	+47.58	+44.97	+40.87	+42.60
22 23	+42.09 +41.67	+45.96 +46.24	+46.61 +47.05	+46.40 +46.15	+46.26 +45.11	+46.47 +46.24		+51.34 +50.42	+49.42 +49.86	+45.87 +44.72	+41.51 +41.70	+41.72 +44.51
24	+41.49	+46.24	+47.05	+46.15	+45.11	+46.45		+49.93	+50.32	+44.26	+41.70	+43.47
25	+41.77	+46.33	+47.23	+46.10	+45.78	+46.22		+50.86	+49.38	+44.23	+42.53	+43.06
26	+42.27	+46.61	+47.44	+46.31	+45.78	+46.91		+49.45	+49.38	+44.23	+43.40	+44.28
27	+42.57	+48.06	+47.42	+47.21	+46.45	+46.66		+50.83	+49.36	+43.75	+43.36	+44.79
28 29	+42.16 +41.74	+47.42 +46.77	+46.70 +47.63	+47.42 +46.24	+45.53	+46.66 +47.33		+50.12 +49.89	+50.51 +49.56	+44.21 +43.50	+45.41 +42.11	+48.06 +50.14
30	+41.33	+46.36	+47.83	+45.99		+46.40		+49.89	+48.87	+45.34	+42.76	+50.14
31	+42.09		+47.09	+46.20		+46.40		+49.86		+45.55	+43.17	
LOW	+36.71	+42.55	+46.36	+44.49	+45.11	+45.25	+44.74	+47.58	+47.35	+43.50	+40.50	+39.76
		WATER LEV	EL, IN FE	ET ABOVE	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMB	BER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET ABOVE JAN				EAR OCTOB	ER 1995 T JUN	O SEPTEMB	BER 1996 AUG	SEP
1	OCT +49.91	NOV +49.45	DEC +48.99	JAN +50.60	FEB +50.37	MAR +50.37	APR +50.83	MAY +51.29	JUN +52.68	JUL	AUG	
1 2	OCT +49.91 +50.14	NOV +49.45 +49.68	DEC +48.99 +50.37	JAN +50.60 +50.60	FEB +50.37 +48.99	MAR +50.37 +49.91	APR +50.83 +51.06	MAY +51.29 +52.22	JUN +52.68 +52.22	JUL 	AUG	
1	OCT +49.91	NOV +49.45	DEC +48.99	JAN +50.60	FEB +50.37	MAR +50.37	APR +50.83	MAY +51.29	JUN +52.68	JUL	AUG	
1 2 3	OCT +49.91 +50.14 +49.45	NOV +49.45 +49.68 +48.99	DEC +48.99 +50.37 +50.60	JAN +50.60 +50.60 +49.68	FEB +50.37 +48.99 +49.22	MAR +50.37 +49.91 +50.83	APR +50.83 +51.06 +50.83	MAY +51.29 +52.22 +52.68	JUN +52.68 +52.22 +50.83	JUL 	AUG 	
1 2 3 4	OCT +49.91 +50.14 +49.45 +50.60	NOV +49.45 +49.68 +48.99 +48.29	DEC +48.99 +50.37 +50.60 +49.45	JAN +50.60 +50.60 +49.68 +50.60	FEB +50.37 +48.99 +49.22 +49.68	MAR +50.37 +49.91 +50.83 +51.06	APR +50.83 +51.06 +50.83 +49.45	MAY +51.29 +52.22 +52.68 +51.99	JUN +52.68 +52.22 +50.83 +52.45	JUL 	AUG 	
1 2 3 4 5	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29	NOV +49.45 +49.68 +48.99 +48.29 +49.45	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +48.76	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
1 2 3 4 5	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29 +47.14	NOV +49.45 +49.68 +48.99 +48.29 +48.29 +49.45 +49.45 +49.45	DEC +48.99 +50.37 +50.60 +49.45 +49.91 +49.91 +49.68	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68 +49.91	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +48.76 +49.68	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83 +49.45	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
1 2 3 4 5	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29	NOV +49.45 +49.68 +48.99 +48.29 +49.45	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +48.76	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
1 2 3 4 5 6 7 8	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29 +47.14 +47.60	NOV +49.45 +49.68 +48.99 +48.29 +49.45 +49.45 +49.45 +49.53	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91 +49.91	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68 +49.45	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83 +49.45 +49.91	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29 +47.14 +47.60 +47.37 +48.53 +50.37	NOV +49.45 +49.68 +48.99 +48.29 +49.45 +49.45 +49.45 +48.53 +48.76 +50.37	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91 +49.68 +49.91 +50.37 +50.83	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.45	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68 +49.16 +49.22 +51.75 +50.14 +49.22	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +48.76 +49.68 +50.37 +50.60 +51.99	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83 +49.45 +51.06 +50.83 +49.45	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29 +47.14 +47.60 +47.37 +48.53 +50.37 +50.83	NOV +49.45 +49.68 +48.99 +48.29 +48.29 +49.45 +49.45 +48.53 +48.76 +50.37 +48.99 +48.53 +49.22	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91 +49.91 +50.37 +50.37 +50.83 +49.22	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.68	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +50.37	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +50.37	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83 +49.45 +49.91 +51.06 +52.45 +51.06	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +48.29 +47.14 +47.60 +47.37 +48.53 +50.37	NOV +49.45 +49.68 +48.99 +48.29 +49.45 +49.45 +49.45 +48.53 +48.76 +50.37	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91 +49.68 +49.91 +50.37 +50.83	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.45	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +49.68 +49.16 +49.22 +51.75 +50.14 +49.22	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +48.76 +49.68 +50.37 +50.60 +51.99	APR +50.83 +51.06 +50.83 +49.45 +49.91 +51.06 +50.83 +49.45 +51.06 +50.83 +49.45	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +47.14 +47.60 +47.37 +48.53 +50.37 +50.83 +49.68	NOV +49.45 +49.68 +48.99 +48.29 +48.29 +49.45 +49.45 +48.53 +48.76 +50.37 +48.99 +48.53 +49.22 +48.76 +48.76	DEC +48.99 +50.37 +50.60 +49.45 +49.68 +49.91 +49.91 +50.37 +50.37 +50.83 +49.22 +49.45 +49.68	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.68 +49.68	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +50.37 +51.06 +51.52	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +50.37 +49.68 +51.29	**************************************	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52 +51.52 +51.29 +50.14	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
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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	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +47.37 +48.53 +50.37 +50.83 +49.68 +50.14 +51.29 +47.60 +47.37 +48.29 +47.60 +48.29	NOV +49.45 +49.68 +48.29 +48.29 +49.45 +49.45 +48.76 +50.37 +48.99 +48.53 +48.76 +50.14 +49.22 +48.76 +49.45 +49.45 +49.45 +49.22 +48.76 +49.68 +50.14 +49.22 +49.68	DEC +48.99 +50.37 +50.60 +49.45 +49.91 +49.91 +50.37 +50.37 +50.83 +49.22 +49.45 +49.68 +49.91 +50.83 +50.83 +50.83 +50.83 +49.45 +49.68	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.76 +48.79 +49.22 +49.68 +49.45 +49.45 +49.45 +50.60 +49.22 +51.52 +50.37 +50.60 +49.68 +49.68 +49.68 +49.22 +50.37 +49.22 +49.68	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +50.37 +51.06 +51.52 +49.22 +50.37 +49.68 +49.45 +50.37 +49.68 +51.59 +51.52 +49.21 +50.37	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +51.75 +52.22 +51.52 +50.83 +50.37 +50.37 +50.37 +50.37 +50.37	*** APR** **50.83** **51.06** **50.83** **49.45** **49.91** **51.06** **50.83** **49.91** **51.06** **52.45** **51.06** **50.83** **51.06** **50.83** **50.8	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52 +51.29 +51.29 +51.06 +51.99 +51.06 +51.52 +51.06 +51.53.83 +53.37 +53.14 +54.29	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
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	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +447.37 +48.53 +50.37 +50.83 +49.68 +50.14 +51.29 +68.29 +47.60 +48.29 +47.60 +48.29	NOV +49.45 +49.68 +48.29 +48.29 +48.53 +48.76 +50.37 +48.99 +48.53 +48.76 +50.14 +49.22 +48.76 +49.45 +49.45 +49.45 +49.45 +49.45 +49.45 +49.45 +49.45 +49.45 +49.45 +50.14 +50.14 +50.14	DEC +48.99 +50.37 +50.60 +49.45 +49.91 +49.91 +50.37 +50.37 +50.37 +50.83 +49.91 +50.83 +49.45 +49.68 +49.91 +50.83 +49.45 +49.68 +49.91 +50.83 +50.83 +49.45 +49.91 +48.99 +48.99 +49.91	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.68 +49.45 +49.91 +50.60 +49.22 +50.37 +50.60 +49.68 +49.68 +49.68 +49.68	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +51.52 +49.22 +50.37 +51.06 +51.52 +49.23 +50.37 +49.68 +49.45 +50.37 +49.68 +51.99 +51.52	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +51.52 +51.52 +51.52 +50.83 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37	*** APR** **50.83** **51.06** **50.83** **49.45** **49.91** **51.06** **50.83** **49.91** **51.06** **50.60** **50.60** **50.60** **50.60** **50.60** **50.60** **50.60** **50.60** **50.83** **50.60** **50.83** **50.8	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52 +51.06 +51.52 +51.06 +51.99 +52.45 +51.06 +51.52 +53.14 +53.83 +53.37 +53.14	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	
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 27 28 29 30 20 21 21 21 21 21 21 21 21 21 21 21 21 21	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +47.37 +48.53 +50.37 +50.83 +49.68 +50.14 +51.29 +47.60 +48.29 +47.60 +48.29 +47.60 +48.29	NOV +49.45 +49.68 +48.29 +48.29 +49.45 +49.45 +48.76 +50.37 +48.99 +48.53 +48.76 +50.14 +50.14 +50.14 +50.14 +50.14 +49.22 +49.68	DEC +48.99 +50.37 +50.60 +49.45 +49.91 +49.91 +50.37 +50.37 +50.83 +49.22 +49.45 +49.91 +50.83 +49.91 +50.83 +49.91 +50.83 +49.91 +48.99 +49.91 +48.99 +49.91 +49.91 +49.91 +49.45 +49.45 +49.45 +49.45	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.76 +48.99 +49.22 +49.68 +49.45 +49.91 +50.60 +49.22 +51.52 +50.37 +50.60 +49.68 +49.22 +50.37 +50.60 +49.68 +49.22 +50.37 +50.60 +49.68	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +51.52 +50.37 +51.06 +51.52 +49.68 +49.45 +50.37 +49.68 +49.91 +50.37	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +51.75 +52.22 +51.52 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37 +50.37	*** APR	MAY +51.29 +52.22 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52 +51.29 +51.06 +51.99 +51.06 +51.52 +53.14 +53.83 +53.37 +53.14 +54.29 +52.68	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	+47.60 +47.60 +47.60 +47.37 +48.06
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +49.91 +50.14 +49.45 +50.60 +50.14 +48.06 +47.37 +48.53 +50.37 +50.83 +49.68 +50.14 +51.29 +48.29 +47.60 +48.29 +47.60 +48.29 +48.29 +48.29 +48.29 +48.29 +48.53	NOV +49.45 +49.68 +48.29 +48.29 +48.53 +48.76 +50.37 +48.99 +48.53 +48.76 +50.14 +49.22 +48.76 +49.45 +49.45 +49.68 +50.14 +50.14 +50.14 +49.22 +49.68	DEC +48.99 +50.37 +50.60 +49.45 +49.91 +49.91 +50.37 +50.37 +50.37 +50.83 +49.91 +50.83 +49.45 +49.91 +50.83 +49.45 +49.91 +50.83 +49.45 +49.91 +50.83 +49.45 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91 +49.91	JAN +50.60 +50.60 +49.68 +50.60 +49.68 +48.99 +48.76 +48.99 +49.22 +49.68 +49.45 +49.91 +50.60 +49.22 +51.52 +50.37 +50.60 +49.68 +49.68 +49.68 +49.68 +49.68 +50.60 +50.37 +49.22 +49.91 +50.14	FEB +50.37 +48.99 +49.22 +49.68 +49.45 +49.22 +51.75 +50.14 +49.22 +51.52 +49.22 +51.52 +49.68 +49.91 +50.37 +49.68 +49.91 +50.37 +49.68 +49.91 +50.37	MAR +50.37 +49.91 +50.83 +51.06 +49.45 +49.68 +49.68 +49.68 +50.37 +50.60 +51.99 +50.37 +49.68 +51.29 +51.75 +52.22 +50.83 +50.37 +50.14 +51.75 +50.37 +49.91 +51.52 +51.99 +51.75 +50.37	*** APR** **50.83** **51.06** **50.83** **49.45** **49.91** **51.06** **50.83** **49.91** **51.06** **50.83** **49.91** **51.06** **50.83** **51.06** **50.60** **50.37** **50.83** **51.06** **50.83** **51.06** **50.83** **51.06** **50.83** **51.06** **50.37** **50.83** **51.99** **53.37** **51.52** **52.22**	MAY +51.29 +52.68 +51.99 +51.06 +51.75 +52.45 +52.22 +53.37 +52.91 +52.68 +51.52 +51.06 +51.52 +51.06 +51.52 +53.14 +53.83 +53.37 +53.14 +54.29 +54.29 +54.29 +54.29 +54.29	JUN +52.68 +52.22 +50.83 +52.45	JUL	AUG	

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		WAIER DEV	ED, IN FE	EI ABOVE		AILY LOWE:		EAR OCIO	3EK 1990 1	O DEFIEM	SEK 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+47.14	+48.18	+50.53					+55.05	+52.98	+49.52		
2	+48.13	+48.36	+51.59					+55.05	+53.79	+49.29		
3	+47.26	+48.80	+50.44					+53.14	+53.95	+48.64		
4	+46.29	+48.59	+50.60					+53.21	+53.67	+48.36		
5	+46.45	+50.21	+50.14					+54.36	+54.06	+48.13		
6	+48.13	+49.10	+51.18					+53.95	+53.67	+47.56		
7	+47.14	+49.06	+51.75					+54.29 +54.52	+53.21	+47.79 +47.56		
8 9	+47.90 e+48.21	+49.38 +49.22	+51.29 +50.79					+54.52	+53.02 +52.26	+46.98		
10	e+47.93	+49.68	+52.63					+54.94	+50.83	+47.65		
11	+46.91	+49.63	+52.40					+56.09	+52.17	+48.76		
12	+47.03	+49.17	+51.52					+53.09	+53.49	+48.41		
13	+47.26	+49.06	+51.64					+52.63	+53.67	+48.59		
14	+47.56	+48.99	+51.52					+51.87	+53.25	+46.45		
15	+46.63	+49.22	+50.09					+51.75	+53.42	+46.22		
1.0	. 40 . 40	. 40 71	. 50 06					. 51 00	. 50 10	. 45 02		
16 17	+48.48 +48.76	+48.71 +47.44	+50.26 +49.22					+51.02 +51.18	+52.10 +52.40	+45.83 +46.56		
18	+47.21	+47.72	+48.87					+52.75	+51.02			
19	+47.83	+48.36	+48.48					+51.02	+52.10			
20	+50.21	+48.64	+49.29					+51.18	+53.37			
21	+49.96	+47.72	+50.09					+50.83	+52.56			
22	+47.72	+48.29	+49.10					+52.56	+51.82			
23	+47.95	+48.06	+48.76					+51.94 +52.63	+52.75			
24 25	+48.59 +48.41	+47.26 +49.45	+48.36 +48.87					+52.63	+52.79 +49.91			
23	140.41	145.45	140.07					133.37	140.01			
26	+49.33	+48.80	+48.76					+53.90	+49.29			
27	+48.80	+48.94						+54.13	+48.80			
28	+48.02	+50.49						+53.83	+49.91			
29	+49.68	+51.29						+52.79	+50.37			
30	+49.63	+50.79					+53.83	+51.99	+48.41			+49.06
31	+48.06							+51.94				
LOW	+46.29	+47.26	+48.36				+53.83	+50.83	+48.41	+45.83		+49.06
		WATER LEV	EL, IN FE	ET ABOVE	LAND-SURF			EAR OCTO	BER 1997 1	TO SEPTEM	BER 1998	
					D.	AILY LOWE:	ST VALUES					
DAY	OCT	NOV	DEC	JAN	D. FEB	AILY LOWE:	ST VALUES APR	MAY	JUN	JUL	AUG	SEP
					FEB	MAR	APR			JUL 		
DAY 1 2	OCT +49.08 +49.17	NOV +53.14 +53.76	DEC +54.18 +54.96	JAN +52.95 +53.88				MAY +50.83 +50.42	JUN +48.29 +49.84		AUG	SEP +46.68 +46.33
1	+49.08	+53.14	+54.18	+52.95	FEB +52.56	MAR +53.49	APR +52.56	+50.83	+48.29 +49.84 +49.45			+46.68
1 2 3 4	+49.08 +49.17 +48.76 +48.50	+53.14 +53.76 +52.72 +53.07	+54.18 +54.96 +53.60 +54.34	+52.95 +53.88 +54.52 +52.49	FEB +52.56 +53.99 +52.38 +52.38	MAR +53.49 +52.56 +52.08 +53.49	APR +52.56 +53.42 +53.23 +53.19	+50.83 +50.42 +49.91 +50.26	+48.29 +49.84 +49.45 +51.18	 	 	+46.68 +46.33 +46.56 +46.17
1 2 3	+49.08 +49.17 +48.76	+53.14 +53.76 +52.72	+54.18 +54.96 +53.60	+52.95 +53.88 +54.52	FEB +52.56 +53.99 +52.38	MAR +53.49 +52.56 +52.08	APR +52.56 +53.42 +53.23	+50.83 +50.42 +49.91	+48.29 +49.84 +49.45			+46.68 +46.33 +46.56
1 2 3 4 5	+49.08 +49.17 +48.76 +48.50 +49.79	+53.14 +53.76 +52.72 +53.07 +53.19	+54.18 +54.96 +53.60 +54.34 +53.23	+52.95 +53.88 +54.52 +52.49 +52.61	FEB +52.56 +53.99 +52.38 +52.15	MAR +53.49 +52.56 +52.08 +53.49 +52.56	APR +52.56 +53.42 +53.23 +53.19 +53.53	+50.83 +50.42 +49.91 +50.26 +49.77	+48.29 +49.84 +49.45 +51.18 +50.42	 	 	+46.68 +46.33 +46.56 +46.17 +47.33
1 2 3 4 5	+49.08 +49.17 +48.76 +48.50 +49.79	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50	+54.18 +54.96 +53.60 +54.34 +53.23	+52.95 +53.88 +54.52 +52.49 +52.61	FEB +52.56 +53.99 +52.38 +52.15 +51.92	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52	+50.83 +50.42 +49.91 +50.26 +49.77	+48.29 +49.84 +49.45 +51.18 +50.42		 	+46.68 +46.33 +46.56 +46.17 +47.33
1 2 3 4 5	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22	MAR +53.49 +52.56 +52.08 +53.49 +52.56	APR +52.56 +53.42 +53.23 +53.19 +53.53	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60	+48.29 +49.84 +49.45 +51.18 +50.42	 	 	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23
1 2 3 4 5	+49.08 +49.17 +48.76 +48.50 +49.79	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50	+54.18 +54.96 +53.60 +54.34 +53.23	+52.95 +53.88 +54.52 +52.49 +52.61	FEB +52.56 +53.99 +52.38 +52.15 +51.92	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49	+50.83 +50.42 +49.91 +50.26 +49.77	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87		 	+46.68 +46.33 +46.56 +46.17 +47.33
1 2 3 4 5 6 7 8	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.95 +53.30	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80		 	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72
1 2 3 4 5 6 7 8 9	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96	=======================================	 	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68
1 2 3 4 5 6 7 8 9 10	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.33	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.95 +54.11 +54.29 +53.30	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +53.97 +52.91	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96	======================================		+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68
1 2 3 4 5 6 7 8 9 10	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.95 +54.11 +54.29 +53.30 +52.79	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.49 +53.23 +51.87 +52.45	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +52.91	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +50.60 +49.96 e+50.87 e+51.44	====	 +48.18 +47.72	+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26
1 2 3 4 5 6 7 8 9 10 11 12 13	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.19 +53.53 +52.33 +52.33	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.45 +53.37	+52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +52.91 +55.49 +55.26	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19 +50.65	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08		 +48.18 +47.72 +47.79	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36
1 2 3 4 5 6 7 8 9 10	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.95 +54.11 +54.29 +53.30 +52.79	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.49 +53.23 +51.87 +52.45	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +52.91	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +50.60 +49.96 e+50.87 e+51.44	====	 +48.18 +47.72	+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +52.84 +50.65 +50.86	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.23 +53.53 +52.33 +52.33 +52.03 +52.03	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.08 +52.08	MAR +53.49 +52.56 +52.08 +52.56 +52.33 +52.91 +52.49 +52.49 +53.23 +51.87 +52.45 +53.37 +52.95 +53.37	+52.56 +53.42 +53.23 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +55.49 +55.26 +55.33 +55.84	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19 +50.99 +51.57	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50		 +48.18 +47.72 +47.79 +47.44 +47.60	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.48
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +53.30	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19 +53.53 +52.33 +52.03 +52.03 +52.65	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23 +51.87 +52.45 +53.37 +52.95 +53.37	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +52.91 +55.33 +55.46 +54.68	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.99 +50.65 +50.99 +51.57	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +52.08 +51.50 e+51.56		 +48.18 +47.72 +47.79 +47.44 +47.60	+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.36 +48.48 +46.98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.19 +53.53 +52.33 +52.03 +52.03 +52.03	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.25 +53.49 +52.61 +51.50 +52.15 +53.02 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.31 +52.49 +53.23 +51.87 +52.45 +53.37 +52.95 +53.37 +52.95 +53.37 +52.95	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.26 +55.33 +54.68 +54.68	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.99 +50.65 +50.99 +51.57	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +49.96 e+50.87 e+51.44 +52.08 +52.08 +51.50 e+51.56 e+51.75		 +48.18 +47.72 +47.79 +47.44 +47.60	+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.48 +46.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.30 +53.30 +53.314 +53.37	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29 +53.65	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.23 +53.53 +52.33 +52.03 +52.65 +52.65 +52.72 +53.14	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.65 +53.37	MAR +53.49 +52.56 +52.08 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.84 +53.37 +52.95 +53.37 +52.95 +53.37	+52.56 +53.42 +53.23 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +55.26 +55.33 +54.68 +54.29 +54.29	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19 +50.57 +51.57	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.56 e+51.75 +52.03		 +48.18 +47.72 +47.44 +47.60 +48.02 +48.13 e+48.36	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.48 +46.98 +46.98 +46.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +50.86 +50.86 +50.46 +50.74 +52.22 +52.47	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +53.30 +53.37 +53.37	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19 +53.53 +52.03 +52.03 +52.03 +52.38 +52.03 +52.38 +52.03 +52.53 +52.72 +53.14 +53.37	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.65 +53.37 +53.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23 +51.87 +52.45 +53.37 +52.08 +53.49 +54.45 +53.37	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.49 +55.26 +55.33 +55.84 +54.68 +54.29 +54.06 +54.18	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.19 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+51.44 +52.08 +51.50 e+51.50 e+51.75 +52.03 +51.11		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.36 +48.48 +46.98 +46.68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.30 +53.30 +53.314 +53.37	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29 +53.65	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.23 +53.53 +52.33 +52.03 +52.65 +52.65 +52.72 +53.14	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.08 +52.65 +53.37 +52.65 +53.37	+53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.45 +53.37 +52.95 +53.37 +52.95 +53.37 +52.08 +53.37 +52.08	+52.56 +53.42 +53.23 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +55.26 +55.33 +54.68 +54.29 +54.29	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.99 +50.19 +50.57 +51.57	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.56 e+51.75 +52.03		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.48 +46.98 +46.98 +46.68 +49.17 +48.80
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	+49.08 +49.17 +48.76 +48.50 +49.79 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.82 +52.84 +52.84 +52.84 +52.84 +52.84 +52.84 +53.28	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.30 +53.37 +53.23 +53.53 +53.53	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +53.19 +53.53 +52.03 +52.03 +52.03 +52.38 +52.03 +52.72 +53.14 +53.37 +53.65 +52.84	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.65 +53.37 +53.65 +53.65 +53.65 +53.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23 +51.87 +52.45 +53.37 +52.05 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08	+52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.26 +55.33 +55.26 +55.33 +54.68 +54.06 +54.29 +54.06 +54.18 +53.30 +53.07	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.19 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.29		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.36 +48.48 +46.68 +48.48 +46.88 +4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.33	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.37 +53.37 +53.53 +53.53 +53.53	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.02 +53.23 +54.29 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65 +53.65	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.19 +53.53 +52.33 +52.03 +52.03 +52.65 +52.72 +53.65 +52.74 +53.37 +53.65	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +51.50 +52.61 +51.50 +52.65 +53.02 +52.65 +53.37 +52.65 +53.37 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.45 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.23	+52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.26 +55.33 +55.26 +54.06 +54.06 +54.18 +54.18 +53.30 +53.07 +52.79	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +51.99	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.29			+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.68 +47.03 +47.26 +48.36 +48.94 +48.48 +46.68 +49.17 +48.80 +49.10 +48.02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +52.84 +50.65 +50.86 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.83 +52.84	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.30 +53.37 +53.23 +53.95 +54.57 +53.95	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29 +53.23 +54.29 +53.23 +52.61 +53.65 +53.95 +52.15	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.19 +53.53 +52.33 +52.03 +52.03 +52.65 +52.72 +53.37 +53.37 +52.65 +52.84 +52.65	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +51.50 +53.49 +52.61 +51.50 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.37 +52.95 +53.37 +52.95 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08 +53.37 +52.08	+52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +55.29 +55.26 +55.33 +54.68 +54.68 +54.18 +53.30 +54.18 +53.30 +53.30 +53.30 +53.30 +53.30 +53.30	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.19 +50.19 +50.57 +51.11 +50.07 +49.19 +50.26 +49.19 +50.26	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.56 e+51.75 +52.03 +51.11 +51.29		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.68 +47.03 +48.36 +48.36 +48.48 +46.98 +46.68 +47.17 +48.80 +49.17 +48.80 +48.02 +48.13
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.33 +52.84 +54.84 +5	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +53.30 +53.14 +53.37 +53.23 +53.53 +54.57 +53.95 +54.57 +53.95	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +54.20 +5	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.19 +53.53 +52.33 +52.03 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.65	FEB +52.56 +53.99 +52.38 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +53.02 +52.08 +52.65 +53.37 +53.65 +53.37 +53.65 +53.37 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.45 +53.23 +51.87 +52.45 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08 +53.49 +54.45 +53.37	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.07 +52.91 +55.26 +55.33 +55.84 +54.68 +54.29 +54.06 +54.30 +53.30 +53.30 +53.79	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +51.99 +52.22 +52.38	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.13 +51.22 +51.11 +51.29		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22 +49.45 +49.29	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.94 +48.48 +46.68 +46.68 +47.17 +48.48 +46.68 +6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +52.84 +50.65 +50.86 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.83 +52.84	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.30 +53.37 +53.23 +53.95 +54.57 +53.95	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29 +53.23 +54.29 +53.23 +52.61 +53.65 +53.95 +52.15	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.19 +53.53 +52.33 +52.03 +52.03 +52.65 +52.72 +53.37 +53.37 +52.65 +52.84 +52.65	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +51.50 +53.49 +52.61 +51.50 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.37 +52.95 +53.37 +52.95 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08 +53.37 +52.08	+52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +55.29 +55.26 +55.33 +54.68 +54.68 +54.18 +53.30 +54.18 +53.30 +53.30 +53.30 +53.30 +53.30 +53.30	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.19 +50.19 +50.57 +51.11 +50.07 +49.19 +50.26 +49.19 +50.26	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.56 e+51.75 +52.03 +51.11 +51.29		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.68 +47.03 +48.36 +48.36 +48.48 +46.98 +46.68 +47.17 +48.80 +49.17 +48.80 +48.02 +48.13
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.33 +52.84 +54.84 +5	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +53.30 +53.14 +53.37 +53.23 +53.53 +54.57 +53.95 +54.57 +53.95	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +54.20 +5	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.19 +53.53 +52.33 +52.03 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.65	FEB +52.56 +53.99 +52.38 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +53.02 +52.08 +52.65 +53.37 +53.65 +53.37 +53.65 +53.37 +52.65	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.45 +53.23 +51.87 +52.45 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08 +53.49 +54.45 +53.37	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.07 +52.91 +55.26 +55.33 +55.84 +54.68 +54.29 +54.06 +54.30 +53.30 +53.30 +53.79	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +51.99 +52.22 +52.38	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.13 +51.22 +51.11 +51.29		 +48.18 +47.72 +47.79 +47.44 +47.60 +48.02 +48.13 e+48.36 e+48.78 +49.22 +49.45 +49.29	+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.94 +48.48 +46.68 +46.68 +47.17 +48.48 +46.68 +6
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 25 26 27	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.27 +53.28 +52.33 +52.86 +54.11 +52.89 +51.82 +52.70	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.37 +53.37 +53.53 +53.95 +54.57 +54.57 +54.68 +54.34 +54.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.02 +53.23 +54.29 +53.65 +52.61 +53.99 +52.15 +52.38 +53.97 +54.06 +53.37 +53.19 +53.19 +53.42	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +52.33 +52.03 +52.03 +52.03 +52.72 +53.14 +53.37 +53.65 +52.72 +53.14 +52.38 +52.38 +52.38 +52.38	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +51.50 +52.61 +51.50 +52.65 +53.02 +52.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.76 +53.66	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +52.84 +53.23 +51.87 +52.45 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.26 +55.33 +55.84 +54.68 +54.18 +54.07 +52.79 +53.30 +53.30 +53.30 +53.30 +53.30 +53.30 +53.30	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +5	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.29 +51.69 +51.75 +52.22 +51.69 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.26 +48.36 +48.36 +48.48 +46.68 +48.48 +48.48 +46.88 +48.48 +48.48 +46.68 +48.41 +48.53
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	+49.08 +49.17 +48.76 +48.50 +49.79 +49.63 +51.55 +50.23 +50.60 +52.84 +50.65 +50.86 +50.74 +52.22 +53.16 +52.84 +50.65 +50.86 +50.74 +52.22 +52.47 +53.28 +52.84 +52.83 +52.84 +52.83 +52.84 +52.85 +52.87 +53.28	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +54.87 +54.22 +52.22 +52.33 +51.99 +53.65 +54.06 +52.65 +53.30 +53.37 +53.23 +53.95 +54.57 +54.57 +54.68 +54.68 +54.68 +54.68	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.02 +53.23 +54.29 +53.23 +54.29 +53.30 +54.11 +53.65 +53.95 +52.15 +52.38 +53.07 +52.38 +53.07 +52.38 +53.07 +52.38 +53.37 +54.06 +53.37 +54.06 +53.37 +54.06 +53.37 +53.42 +53.42 +53.42	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +53.30 +53.23 +53.31 +52.33 +52.03 +52.03 +52.03 +52.65 +52.72 +53.37 +52.84 +52.38 +52.65 +52.38 +52.38 +52.38 +52.38 +52.38 +52.38	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.25 +53.49 +52.61 +51.50 +52.56 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.45 +53.37 +52.95 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +55.26 +55.33 +54.68 +54.68 +54.68 +54.18 +53.30 +53.07 +52.79 +53.30 +53.72 +54.11 +53.72 +54.11	+50.83 +50.42 +49.91 +50.26 +49.77 +50.07 +50.60 +51.45 +50.99 +50.19 +50.19 +50.57 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +5	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.56 e+51.75 +52.03 +51.11 +51.29 +51.41 +51.22 +51.69 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.72 +46.68 +47.03 +48.36 +48.36 +48.48 +46.68 +48.48 +46.88 +46.88 +47.17 +48.80 +49.17 +48.80 +49.17 +48.13 +47.95 +48.23 +48.41 +48.53 +48.53 +48.53
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +52.84 +52.84 +52.86 +52.84 +52.22 +52.47 +53.28 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +54.84 +54.84 +54.84 +54.84 +5	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.30 +53.14 +53.37 +53.23 +53.53 +54.57 +54.57 +54.68 +54.68 +54.34 +54.22 +54.81 +54.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.365 +53.95 +52.61 +53.65 +53.97 +52.38 +53.37 +53.42 +53.37	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.30 +53.53.39 +53.53 +52.33 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.65 +52.38 +52.33	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.08 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37	MAR +53.49 +52.56 +52.08 +52.56 +52.33 +52.91 +52.49 +52.49 +52.34 +53.37 +52.95 +53.37 +52.95 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.23 +54.45 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +55.26 +55.33 +55.84 +54.68 +54.18 +53.30 +53.72 +52.79 +53.30 +52.79 +53.30 +53.72 +54.11 +53.72 +53.72 +54.11	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.99 +50.19 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +51.57 +51.69 +50.65 +49.72 +50.65 +49.45 +50.65	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.22 +51.22 +51.22 +51.69 +51.75 +52.22 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.26 +46.68 +47.03 +47.26 +48.36 +48.48 +46.68 +47.17 +48.80 +49.17 +48.80 +49.17 +48.02 +48.13 +47.95 +48.23
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +50.86 +50.86 +50.86 +50.22 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.86 +54.11 +52.89 +52.89 +52.89 +52.89 +52.89 +52.95	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.37 +53.37 +53.37 +53.95 +54.57 +54.96 +54.57 +54.97 +5	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29 +53.65 +53.99 +52.15 +53.97 +53.65 +53.97 +53.42 +53.49 +53.49 +53.49 +53.65 +53.95	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +52.33 +52.03 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.14 +52.38 +52.33 +5	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.25 +53.49 +52.61 +51.50 +52.15 +53.02 +52.08 +52.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.76	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.45 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +52.91 +52.91 +55.26 +55.33 +55.84 +54.68 +54.29 +54.06 +54.18 +53.30 +53.07 +52.79 +53.30 +53.72 +52.79 +53.19	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +5	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.29 +51.41 +51.22 +51.69 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.36 +48.48 +46.68 +48.48 +46.88 +46.88 +46.68 +48.17 +48.17 +48.13 +47.26 +48.13 +47.26 +48.13 +47.95 +48.13 +47.79 +47.79 +47.79 +47.79
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +52.84 +52.84 +52.86 +52.84 +52.22 +52.47 +53.28 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +54.84 +54.84 +54.84 +54.84 +5	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.30 +53.14 +53.37 +53.23 +53.53 +54.57 +54.57 +54.68 +54.68 +54.34 +54.22 +54.81 +54.22	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +54.29 +53.23 +54.29 +53.23 +54.29 +53.23 +54.29 +53.365 +53.95 +52.61 +53.65 +53.97 +52.38 +53.37 +53.42 +53.37	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.33 +53.30 +53.53.39 +53.53 +52.33 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.65 +52.38 +52.33	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.15 +53.49 +52.61 +51.50 +52.15 +53.02 +52.08 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37 +52.65 +53.37	MAR +53.49 +52.56 +52.08 +52.56 +52.33 +52.91 +52.49 +52.49 +52.34 +53.37 +52.95 +53.37 +52.95 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.23 +54.45 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.53 +54.52 +55.49 +53.95 +53.07 +52.91 +55.26 +55.33 +55.84 +54.68 +54.18 +53.30 +53.72 +52.79 +53.30 +52.79 +53.30 +53.72 +54.11 +53.72 +53.72 +54.11	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.99 +50.19 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +51.57 +51.69 +50.65 +49.72 +50.65 +49.45 +50.65	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.22 +51.22 +51.22 +51.69 +51.75 +52.22 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.59 +48.23 +47.26 +46.68 +47.03 +47.26 +48.36 +48.48 +46.68 +47.17 +48.80 +49.17 +48.80 +49.17 +48.02 +48.13 +47.95 +48.23
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	+49.08 +49.17 +48.76 +48.50 +49.79 +49.68 +49.63 +51.55 +50.23 +50.60 +50.72 +53.16 +50.86 +50.86 +50.86 +50.22 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.84 +52.33 +52.86 +54.11 +52.89 +52.89 +52.89 +52.89 +52.89 +52.95	+53.14 +53.76 +52.72 +53.07 +53.19 +51.50 +52.08 +54.22 +52.22 +52.33 +51.99 +54.06 +52.65 +54.06 +53.37 +53.37 +53.37 +53.95 +54.57 +54.96 +54.57 +54.97 +5	+54.18 +54.96 +53.60 +54.34 +53.23 +53.23 +53.30 +54.11 +54.29 +53.30 +52.79 +53.23 +54.29 +53.23 +54.29 +53.65 +53.99 +52.15 +53.97 +53.65 +53.97 +53.42 +53.49 +53.49 +53.49 +53.65 +53.95	+52.95 +53.88 +54.52 +52.49 +52.61 +52.72 +52.49 +53.30 +53.23 +52.33 +52.03 +52.03 +52.03 +52.72 +53.14 +53.37 +52.65 +52.72 +53.14 +52.38 +52.33 +5	FEB +52.56 +53.99 +52.38 +52.15 +51.92 +52.22 +52.25 +53.49 +52.61 +51.50 +52.15 +53.02 +52.08 +52.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.37 +53.65 +53.76	MAR +53.49 +52.56 +52.08 +53.49 +52.56 +52.33 +52.91 +52.49 +53.23 +51.87 +52.45 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.37 +52.08 +53.49 +54.45 +53.37 +52.08	APR +52.56 +53.42 +53.23 +53.19 +53.53 +54.52 +55.49 +53.95 +55.26 +55.33 +55.26 +54.06 +54.18 +53.30 +53.30 +53.72 +52.79 +53.30 +53.72 +52.79 +53.19	+50.83 +50.42 +49.91 +50.26 +49.77 +50.60 +51.45 +50.92 +49.91 +50.65 +50.99 +51.57 +51.11 +50.07 +49.45 +49.19 +50.26 +51.99 +5	+48.29 +49.84 +49.45 +51.18 +50.42 +49.96 +51.87 +51.80 +50.60 +49.96 e+50.87 e+51.44 +52.08 +51.50 e+51.75 +52.03 +51.11 +51.29 +51.41 +51.22 +51.69 +51.75			+46.68 +46.33 +46.56 +46.17 +47.33 +48.23 +47.72 +46.29 +46.68 +47.03 +47.26 +48.36 +48.36 +48.48 +46.68 +48.48 +46.88 +46.88 +46.68 +48.17 +48.17 +48.13 +47.26 +48.13 +47.26 +48.13 +47.95 +48.13 +47.79 +47.79 +47.79 +47.79

e Estimated

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SITE NUMBER FROM LOCATION MAP.—42.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E8ADDD.

SITE ID (STATION NUMBER).—440338103173301.

OTHER IDENTIFIERS.—PE-89B and Canyon Lake Mnls.

LOCATION.—Lat 44°03′37.6″, long 103°17′35.1″, in SE¹/4SE¹/4SE¹/4NE¹/4 sec. 8, T. 1 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 115 ft deep with 6 3/8-in. steel casing to 74 ft; open hole from 74 to 115 ft.

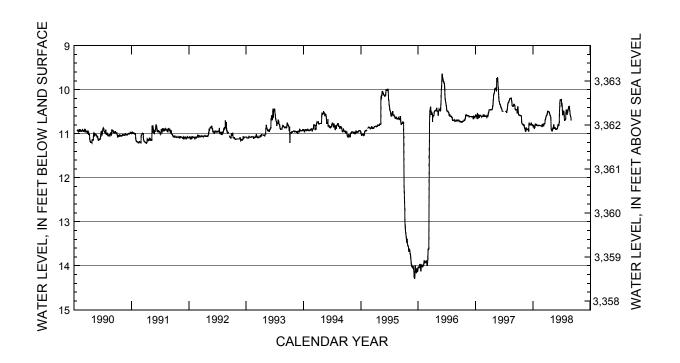
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,372.6 ft above sea level. Measuring point: Top of steel casing, 1.30 ft above land-surface datum.

REMARKS.—Records good. Water levels probably are affected by water level of Canyon Lake, which was drained from October 1995 through March 1996.

PERIOD OF RECORD.—January 1990 to September 1998.

EXTREMES.—Highest daily water level, 9.72 ft below land-surface datum, May 21, 1997; lowest daily water level, 14.29 ft below land-surface datum, Dec. 9, 10, 1995.



SITE NUMBER 42—Continued

	,	WATER LEV	EL, IN FE	ET BELOW	LAND-SURFA	ACE DATUM,		EAR OCTOB	ER 1994 T	SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10.99 10.97 10.96 10.96 11.01	10.98 10.98 10.98 10.96 10.96	10.94 10.94 10.94 10.97	10.98 10.98 10.98 11.00	10.94 10.94 10.93 10.94 10.94	10.88 10.89 10.88 10.87	10.84 10.84 10.84 10.84 10.84	10.78 10.78 10.78 10.79 10.79	10.14 10.15 10.15 10.15 10.15	10.35 10.38 10.39 10.44 10.46	10.60 10.60 10.61 10.61 10.61	10.67 10.68 10.68 10.68
6 7 8 9	11.03 11.03 11.06 11.07	10.96 10.96 10.96 10.96 10.96	10.97 10.97 10.97 10.95 10.97	11.04 11.04 11.04 11.03 11.03		10.88 10.88 10.88 10.87	10.83 10.83 10.83 10.83	10.79 10.78 10.78 10.23 10.14	10.13 10.13 10.13 10.09 9.99	10.48 10.48 10.49 10.50 10.52	10.64 10.64 10.64 10.65 10.65	10.66 10.64 10.61 10.61
11 12 13 14 15	11.08 11.08 11.08 11.08 11.08	10.97 10.97 10.98 10.98 10.98	10.97 10.97 10.96 10.95 10.94	11.01 11.01 11.00 11.00	 	10.84 10.84 10.86 10.86	10.83 10.84 10.82 10.83 10.83	10.21 10.16 10.21 10.11 10.14	10.02 10.03 10.01 10.01 10.01	10.55 10.59 10.59 10.60 10.61	10.65 10.65 10.63 10.63	10.61 10.69 10.75 10.77
16 17 18 19 20	11.01 11.02 11.02 11.04 11.04	10.97 10.97 10.97 10.99 10.99	10.96 10.96 10.94 10.93 10.93	11.01 11.02 11.02 11.03 11.02	10.86 10.86 10.86 10.85	10.88 10.88 10.87 10.87	10.83 10.83 10.83 10.80	10.07 10.04 10.04 10.04 10.04	10.00 10.00 10.01 10.02 10.02	10.60 10.60 10.58 10.53 10.53	10.65 10.64 10.66 10.66	10.79 10.79 10.78 10.77
21 22 23 24 25	11.05 11.07 11.07 11.07 11.07	10.98 11.00 11.00 10.99 10.99	10.94 10.94 10.94 10.94 10.93	11.04 11.04 11.03 11.02 10.97	10.85 10.85 10.86 10.87 10.86	10.87 10.88 10.88 10.88	10.80 10.80 10.81 10.81 10.81	10.10 10.08 10.08 10.07 10.08	10.02 9.98 9.99 10.00 10.03	10.53 10.52 10.49 10.53 10.56	10.67 10.67 10.66 10.66	10.76 10.75 10.77 10.77
26 27 28 29 30 31	11.07 11.02 10.99 10.99 10.99 10.98	10.97 10.97 11.00 11.00 10.98	10.93 10.93 10.93 10.94 10.94	10.96 10.94 10.94 10.94 10.93	10.86 10.87 10.88 	10.85 10.85 10.85 10.84 10.84	10.81 10.81 10.81 10.81 10.81	10.12 10.12 10.12 10.12 10.13 10.13	10.15 10.21 10.24 10.26 10.32	10.57 10.58 10.58 10.58 10.57	10.66 10.65 10.65 10.64 10.66	10.77 10.76 10.76 10.75 10.74
LOW	11.08	11.00	10.97	11.04	10.94	10.89	10.84	10.79	10.32	10.61	10.67	10.79
	,	WATER LEV	EL, IN FE	ET BELOW	LAND-SURFA	ACE DATUM,		EAR OCTOB	ER 1995 TO	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FEI DEC	ET BELOW				EAR OCTOB	ER 1995 TO	O SEPTEMB	ER 1996 AUG	SEP
DAY 1 2 3 4 5					DA	ILY LOWES	T VALUES					SEP 10.69 10.69 10.70 10.70 10.71
1 2 3 4	OCT 10.74 11.25 11.91 12.20	NOV 13.59 13.64 13.68 13.66	DEC 14.02 14.04 14.05 14.07	JAN 14.03 14.04 14.06 14.02	FEB 13.99 13.99 14.00 14.00	MAR 13.96 13.86 13.79 13.72	T VALUES APR 10.55 10.73 10.62 10.62	MAY 10.49 10.49 10.49 10.49	JUN 9.67 9.64 9.66 9.69	JUL 10.44 10.47 10.48 10.50	AUG 10.61 10.63 10.64 10.63	10.69 10.69 10.70 10.70
1 2 3 4 5 6 7 8 9	OCT 10.74 11.25 11.91 12.20 12.33 12.46 12.55 12.72 12.96	NOV 13.59 13.64 13.68 13.66 13.62 13.62 13.66 13.65 13.65	DEC 14.02 14.04 14.05 14.07 14.15 14.22 14.26 14.26 14.29	JAN 14.03 14.04 14.06 14.02 14.03 14.06 14.03 14.05 13.99	DA FEB 13.99 14.00 14.00 13.99 13.96 13.93 13.89 13.89	MAR 13.96 13.86 13.79 13.72 13.65 13.61 13.62 13.61 13.62	APR 10.55 10.73 10.62 10.62 10.61 10.60 10.59 10.59	MAY 10.49 10.49 10.49 10.49 10.49 10.59 10.58	JUN 9.67 9.64 9.66 9.69 9.72 9.74 9.75 9.77	JUL 10.44 10.47 10.48 10.50 10.49 10.49 10.49 10.49 10.49	AUG 10.61 10.63 10.64 10.63 10.63 10.68 10.69 10.69	10.69 10.69 10.70 10.70 10.71 10.70 10.68 10.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 10.74 11.25 11.91 12.20 12.33 12.46 12.55 12.72 12.96 13.05 13.11 13.16 13.22 13.25	NOV 13.59 13.64 13.68 13.66 13.62 13.62 13.65 13.65 13.70 13.74 13.72 13.74	DEC 14.02 14.04 14.05 14.07 14.15 14.22 14.26 14.29 14.29 14.29 14.29	JAN 14.03 14.04 14.06 14.02 14.03 14.06 14.03 14.05 13.99 13.97	DA FEB 13.99 14.00 14.00 13.99 13.96 13.93 13.88 13.93 13.88 13.93	MAR 13.96 13.86 13.79 13.72 13.65 13.61 13.62 13.64 13.61 13.38 12.44 11.17 10.95 10.77	APR 10.55 10.73 10.62 10.62 10.61 10.60 10.59 10.59 10.59 10.59 10.59 10.59 10.59 10.58 10.52	MAY 10.49 10.49 10.49 10.49 10.49 10.58 10.58 10.53 10.50 10.49 10.48 10.47 10.44	JUN 9.67 9.64 9.66 9.69 9.72 9.74 9.75 9.77 9.79 9.82 9.83 9.82 9.83 9.82 9.86	JUL 10.44 10.47 10.48 10.50 10.49 10.49 10.49 10.49 10.51 10.51 10.51 10.52 10.52	AUG 10.61 10.63 10.64 10.63 10.63 10.69 10.69 10.71 10.68	10.69 10.70 10.70 10.71 10.71 10.68 10.69 10.70 10.70 10.70 10.69 10.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 10.74 11.25 11.91 12.20 12.33 12.46 12.55 12.72 12.96 13.05 13.11 13.16 13.22 13.25 13.27 13.31 13.34 13.36 13.41	NOV 13.59 13.64 13.68 13.66 13.62 13.66 13.65 13.70 13.74 13.72 13.74 13.76 13.82 13.87 13.89 13.93	DEC 14.02 14.04 14.05 14.07 14.15 14.22 14.26 14.29 14.29 14.29 14.29 14.19 13.99 14.02 14.04	JAN 14.03 14.04 14.06 14.02 14.03 14.06 14.03 14.05 13.99 13.97 14.00 14.00 13.99 13.96 13.99 14.00 14.06	DA FEB 13.99 14.00 14.00 13.99 13.96 13.93 13.88 13.93 13.94 13.94 13.94 13.92 13.90 13.92 13.92	MAR 13.96 13.86 13.79 13.72 13.65 13.61 13.62 13.64 13.61 13.38 12.44 11.17 10.95 10.77 10.60 10.48 10.47 10.45 10.45 10.43	APR 10.55 10.73 10.62 10.62 10.61 10.60 10.59 10.59 10.59 10.59 10.59 10.59 10.49 10.49 10.49 10.48 10.48	MAY 10.49 10.49 10.49 10.49 10.49 10.58 10.59 10.53 10.50 10.49 10.48 10.47 10.44 10.45 10.46 10.46	JUN 9.67 9.64 9.66 9.69 9.72 9.74 9.75 9.77 9.79 9.82 9.83 9.82 9.82 9.85 9.86 9.85	JUL 10.44 10.47 10.48 10.50 10.49 10.49 10.49 10.51 10.51 10.52 10.52 10.52 10.52 10.56 10.60 10.60	AUG 10.61 10.63 10.64 10.63 10.69 10.69 10.71 10.68 10.69 10.70 10.70 10.70 10.69 10.70 10.70 10.69	10.69 10.70 10.70 10.71 10.71 10.68 10.69 10.70 10.70 10.70 10.70 10.69 10.69 10.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 10.74 11.25 11.91 12.20 12.33 12.46 12.55 12.72 12.96 13.05 13.11 13.16 13.22 13.25 13.27 13.31 13.34 13.34 13.34 13.44 13.47 13.47 13.39 13.46	NOV 13.59 13.64 13.68 13.66 13.62 13.65 13.70 13.74 13.72 13.74 13.76 13.82 13.87 13.89 13.98 14.02 13.99 14.02	DEC 14.02 14.04 14.05 14.07 14.15 14.22 14.26 14.29 14.29 14.29 14.19 13.99 14.02 14.04 14.10 14.13 14.16 14.16 14.16 14.16 14.16	JAN 14.03 14.04 14.06 14.02 14.03 14.05 13.99 13.97 14.00 14.00 13.99 13.96 13.99 14.00 14.06 14.12 14.11 14.04 13.97 13.99 14.01	DA FEB 13.99 14.00 14.00 13.99 13.96 13.93 13.88 13.93 13.94 13.94 13.94 13.92 13.92 13.92 13.92 13.92 13.92 13.92 13.92 13.92	MAR 13.96 13.86 13.79 13.72 13.65 13.61 13.62 13.64 13.61 13.38 12.44 11.17 10.95 10.77 10.60 10.48 10.47 10.45 10.43 10.41 10.39 10.47 10.54 10.55	APR 10.55 10.73 10.62 10.62 10.61 10.60 10.59 10.59 10.59 10.59 10.49 10.48 10.48 10.48 10.48 10.48 10.48 10.48 10.48 10.48	MAY 10.49 10.49 10.49 10.49 10.49 10.58 10.59 10.53 10.50 10.48 10.47 10.44 10.45 10.46 10.46 10.47 10.48 10.47	JUN 9.67 9.64 9.66 9.69 9.72 9.74 9.75 9.77 9.79 9.82 9.83 9.82 9.86 9.85 9.86 9.90 9.95 10.01 10.11 10.19 10.22 10.24 10.28	JUL 10.44 10.47 10.48 10.50 10.49 10.49 10.49 10.51 10.51 10.51 10.55 10.52 10.52 10.52 10.54 10.57 10.58 10.57 10.58	AUG 10.61 10.63 10.64 10.63 10.68 10.69 10.71 10.68 10.69 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70	10.69 10.70 10.70 10.71 10.70 10.68 10.69 10.70 10.70 10.70 10.70 10.69 10.69 10.69 10.69 10.69 10.72 10.72 10.72 10.72

SITE NUMBER 42—Continued

		WATER LEV	JEL, IN FE	ET BELOW		FACE DATUM			ER 1996 T	O SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	10.74 10.74 10.73 10.73	10.59 10.57 10.57 10.58 10.58	10.61 10.61 10.61 10.61 10.61	10.60 10.57 10.57 10.57 10.60	10.58 10.59 10.59 10.60 10.60	10.61 10.61 10.60 10.61 10.61	10.46 10.46 10.46 10.45	10.07 10.01 9.97 9.99 9.99	10.27 10.27 10.29 10.33 10.33	 	10.28 10.28 10.25 10.24 10.23	10.33 10.33 10.33 10.34 10.34
6 7 8 9 10	10.74 10.74 10.73 10.73	10.58 10.60 10.60 10.59 10.59	10.61 10.62 10.62 10.62 10.61	10.61 10.61 10.58 10.60 10.66	10.60 10.61 10.61 10.62 10.61	10.60 10.60 10.61 10.61 10.60	10.46 10.46 10.46 10.46 10.46	9.99 9.99 9.98 9.97 9.96	10.33 10.34 10.35 10.35	 	10.21 10.20 10.20 10.21 10.21	10.35 10.36 10.36 10.39 10.44
11 12 13 14 15	10.72 10.72 10.72 10.72 10.72	10.59 10.59 10.59 10.59 10.59	10.61 10.61 10.61 10.61 10.61	10.65 10.65 10.53 10.59 10.62	10.61 10.61 10.61 10.61 10.61	10.60 10.60 10.61 10.63 10.62	10.46 10.46 10.46 10.46 10.45	9.96 9.98 10.02 10.04 9.97	10.40 10.40 10.41 10.42 10.42	 	10.20 10.20 10.20 10.19 10.19	10.44 10.45 10.47 10.46 10.45
16 17 18 19 20	10.72 10.71 10.71 10.70 10.69	10.59 10.59 10.59 10.59	10.62 10.66 10.66 10.66 10.60	10.64 10.65 10.64 10.57	10.61 10.58 10.57 10.57	10.60 10.61 10.61 10.61 10.61	10.45 10.44 10.43 10.41 10.37	9.74 9.76 9.81 9.81 9.81	10.43 10.44 10.46 10.49	10.50 10.53 10.48 10.48	10.19 10.19 10.22 10.25 10.27	10.45 10.47 10.46 10.46
21 22 23 24 25	10.70 10.70 10.69 10.69 10.69	10.62 10.62 10.62 10.62 10.61	10.60 10.63 10.64 10.64	10.57 10.59 10.59 10.61 10.63	10.58 10.59 10.60 10.62 10.58	10.59 10.59 10.54 10.52 10.52	10.36 10.36 10.30 10.23 10.20	9.72 9.74 9.83 9.90 9.93	 	10.47 10.45 10.41 10.38 10.37	10.33 10.36 10.36 10.37	10.45 10.45 10.54 10.48 10.43
26 27 28 29 30 31	10.69 10.65 10.65 10.63 10.57	10.61 10.61 10.61 10.61 10.61	10.64 10.64 10.61 10.61 10.61	10.63 10.58 10.58	10.58 10.58 10.59 	10.51 10.49 10.46 10.46 10.46	10.13 10.11 10.08 10.08 10.08	9.96 10.02 10.09 10.18 10.24 10.27	 	10.31 10.30 10.30 10.30 10.28 10.28	10.38 10.38 10.38 10.38 10.36	10.41 10.39 10.39 10.39 10.51
LOW	10.74	10.62	10.66	10.66	10.62	10.63	10.46	10.27	10.49	10.53	10.38	10.54
шОW												
HOW		WATER LE	JEL, IN FE	ET BELOW		FACE DATUM			ER 1997 I	O SEPTEME	BER 1998	
DAY	OCT	WATER LEV	JEL, IN FE	ET BELOW					ER 1997 T JUN	O SEPTEME	BER 1998 AUG	SEP
	OCT 10.55 10.56 10.56 10.58 10.58				D.	AILY LOWES	ST VALUES					SEP 10.64 10.70
DAY 1 2 3 4	10.55 10.56 10.56 10.58	NOV 10.81 10.81 10.78 10.80	DEC 10.89 10.89 10.89 10.91	JAN 10.80 10.80 10.82 10.86	D. FEB 10.81 10.81 10.82 10.81	MAR 10.79 10.79 10.79 10.79 10.79	APR 10.57 10.55 10.55 10.52	MAY 10.93 10.94 10.94 10.94	JUN 10.90 10.90 10.90 10.89	JUL 10.25 10.21 10.32 10.35	AUG 10.50 10.46 10.46 10.46	10.64 10.70
DAY 1 2 3 4 5 6 7 8 9	10.55 10.56 10.56 10.58 10.58 10.58 10.58	NOV 10.81 10.81 10.78 10.80 10.80 10.82 10.86 10.87	DEC 10.89 10.89 10.91 10.95 10.94 10.80 10.75 10.75	JAN 10.80 10.80 10.82 10.82 10.83 10.83 10.82	D. FEB 10.81 10.82 10.81 10.81 10.81 10.81 10.81 10.81	MAR 10.79 10.79 10.79 10.78 10.81 10.84 10.79 10.83 10.83	APR 10.57 10.55 10.55 10.52 10.49 10.49 10.50 10.50	MAY 10.93 10.94 10.94 10.94 10.99 10.89 10.89 10.88 10.88	JUN 10.90 10.90 10.90 10.89 10.88 10.88 10.88	JUL 10.25 10.21 10.32 10.35 10.38 10.30 10.38 10.48 10.54	AUG 10.50 10.46 10.46 10.53 10.46 10.53 10.53	10.64
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	10.55 10.56 10.58 10.58 10.58 10.58 10.58 10.58 10.58 10.58 10.58	NOV 10.81 10.78 10.80 10.80 10.80 10.86 10.87 10.87 10.90 10.90	DEC 10.89 10.89 10.91 10.95 10.94 10.80 10.75 10.80 10.81 10.79	JAN 10.80 10.82 10.86 10.82 10.82 10.83 10.82 10.88 10.86 10.88	D. FEB 10.81 10.82 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81	MAR 10.79 10.79 10.79 10.78 10.81 10.84 10.83 10.81 10.83 10.77 10.77	APR 10.57 10.55 10.55 10.52 10.49 10.49 10.50 10.50 10.50 10.50 10.51 10.51	MAY 10.93 10.94 10.94 10.94 10.89 10.89 10.89 10.89 10.89 10.85	JUN 10.90 10.90 10.99 10.89 10.88 10.88 10.88 10.85 10.82 10.78	JUL 10.25 10.21 10.32 10.35 10.38 10.30 10.38 10.48 10.54 10.57 10.57 10.57	AUG 10.50 10.46 10.46 10.53 10.46 10.53 10.53 10.53 10.53 10.53 10.46 10.48	10.64 10.70
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	10.55 10.56 10.58 10.58 10.58 10.58 10.58 10.58 10.58 10.59 10.59 10.59 10.59	NOV 10.81 10.81 10.78 10.80 10.80 10.80 10.86 10.87 10.87 10.90 10.90 10.92 10.95 10.95 10.93 10.93 10.93	DEC 10.89 10.89 10.91 10.95 10.94 10.80 10.77 10.79 10.80 10.81 10.79 10.79 10.79 10.79 10.79 10.79 10.79	JAN 10.80 10.82 10.86 10.82 10.82 10.88 10.88 10.88 10.88 10.88 10.86 10.81 10.78 10.79	D. FEB 10.81 10.82 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.82 10.82 10.82 10.82 10.82	MAR 10.79 10.79 10.79 10.78 10.81 10.84 10.81 10.81 10.81 10.83 10.77 10.77 10.77 10.77 10.77	APR 10.57 10.55 10.55 10.55 10.52 10.49 10.50 10.50 10.50 10.51 10.51 10.51 10.51 10.55	MAY 10.93 10.94 10.94 10.94 10.89 10.89 10.89 10.89 10.89 10.85 10.85 10.83 10.79 10.83	JUN 10.90 10.90 10.99 10.89 10.88 10.88 10.85 10.82 10.78 10.82 10.79 10.79 10.79 10.81	JUL 10.25 10.21 10.32 10.35 10.38 10.30 10.54 10.57 10.57 10.57 10.50 10.50 10.50 10.50	AUG 10.50 10.46 10.46 10.53 10.46 10.57 10.53 10.53 10.53 10.53 10.48 10.48 10.44 10.39 10.39 10.39	10.64 10.70
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	10.55 10.56 10.58 10.58 10.58 10.58 10.58 10.58 10.59 10.59 10.59 10.59 10.59 10.59 10.59 10.59	NOV 10.81 10.78 10.80 10.80 10.80 10.82 10.86 10.87 10.87 10.90 10.90 10.92 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.91 10.99	DEC 10.89 10.89 10.91 10.95 10.94 10.80 10.77 10.79 10.80 10.81 10.79 10.79 10.79 10.79 10.79 10.80 10.80 10.76 10.75 10.80	JAN 10.80 10.82 10.86 10.82 10.82 10.83 10.82 10.86 10.88 10.86 10.88 10.86 10.86 10.81 10.78 10.79 10.80 10.81 10.79	D. FEB 10.81 10.82 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.81 10.82 10.82 10.82 10.82 10.82 10.82 10.82 10.82 10.82	MAR 10.79 10.79 10.79 10.78 10.81 10.84 10.79 10.83 10.81 10.81 10.87 10.77 10.77 10.77 10.77 10.77 10.78 10.78 10.78 10.78 10.65	APR 10.57 10.55 10.55 10.55 10.52 10.49 10.50 10.50 10.50 10.51 10.51 10.51 10.51 10.55 10.55 10.58 10.59 10.59 10.59 10.59	MAY 10.93 10.94 10.94 10.94 10.89 10.89 10.89 10.89 10.89 10.85 10.83 10.79 10.83 10.85 10.87 10.88	JUN 10.90 10.90 10.89 10.88 10.88 10.88 10.82 10.78 10.82 10.79 10.79 10.79 10.79 10.75 10.58 10.48 10.30 10.26 10.26	JUL 10.25 10.32 10.35 10.38 10.30 10.38 10.54 10.57 10.57 10.57 10.55 10.50 10.51 10.50 10.51 10.50 10.51 10.50 10.51 10.50	AUG 10.50 10.46 10.46 10.46 10.53 10.53 10.53 10.53 10.53 10.53 10.51 10.48 10.48 10.45 10.43 10.41 10.39 10.39 10.39 10.39 10.37 10.41 10.44	10.64 10.70

SITE NUMBER FROM LOCATION MAP.—43.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E5DBCA.

SITE ID (STATION NUMBER).—440423103180501.

OTHER IDENTIFIER.—W. Cp Rapid 3.

LOCATION.—Lat 44°04′22.6″, long 103°18′06.8″, in NE¹/4SW¹/4NW¹/4SE¹/4 sec. 5, T. 1N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota National Guard.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled unused well, 224 ft deep with 224 ft of 5-in. steel casing; open end.

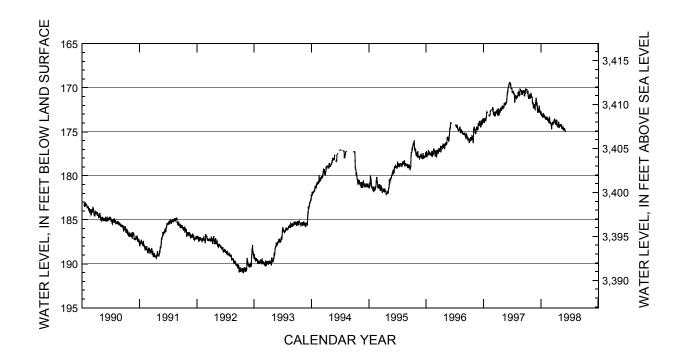
INSTRUMENTATION.—Electronic data logger with float.

DATUM.—Elevation of land-surface datum is 3,581.9 ft above sea level. Measuring point: Top of steel casing, 1.5 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—January 1990 to June 1998.

EXTREMES.—Highest daily water level, 169.41 ft below land-surface datum, June 16, 1997; lowest water level, 191.06 ft below land-surface datum, Oct. 23, 1992.



SITE NUMBER 43—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		WAIER DEV		,		AILY LOWES	T VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	177.28 177.28 177.28 177.28 177.66	180.49 180.80 180.88 180.81 180.97	180.87 180.89 180.96 181.24 181.24	181.28 181.40 181.40 181.39 180.87	181.25 181.62 181.78 181.59 181.59	181.38 181.26 181.02 181.08 181.08	181.56 181.52 181.77 181.77	182.05 181.74 181.92 181.96 181.94	179.60 179.57 179.52 179.54 179.37	178.96 178.70 178.41 178.69 178.89	178.80 178.64 178.73 178.69 178.54	178.80 178.76 178.79 178.81 178.79
6 7 8 9 10	178.34 179.06 179.24 179.29 179.31	181.01 180.99 181.08 181.08 180.86	181.13 181.18 181.21 181.21 181.33	181.01 181.17 181.19 181.19 180.78	181.59 181.74 181.60 181.41 181.38	181.37 181.46 181.36 181.04 181.03	181.55 181.52 181.45 181.77 181.84	181.72 181.56 181.38 181.37 181.34	179.32 179.67 179.71 179.65 179.67	178.97 178.96 178.89 178.87 178.75	178.41 178.40 178.59 178.63 178.48	179.07 179.09 178.94 178.93 178.88
11 12 13 14 15	179.31 179.82 179.93 179.74 179.59	180.78 180.73 181.04 181.33 181.32	181.04 181.12 181.06 180.93 180.93	180.10 180.05 180.43 180.42 180.34	181.46 181.53 181.53 181.19 181.24	180.96 181.12 181.53 181.68 181.62	181.76 181.84 181.82 181.47 181.68	180.99 180.43 180.78 180.86 180.70	179.67 179.47 179.22 179.11 178.96	178.62 178.57 178.66 178.84 178.90	178.40 178.52 178.58 178.62 178.46	178.74 178.81 179.05 179.06 178.72
16 17 18 19 20	179.96 180.05 180.30 180.42 180.42	180.78 180.72 181.12 181.07 180.88	180.96 181.20 181.09 181.00 181.09	180.53 180.86 181.08 181.24 181.36	181.15 180.74 180.46 180.44 180.19	181.69 181.69 181.52 181.22	181.82 181.79 181.71 181.71	180.44 180.41 180.35 180.48	178.91 179.01 179.05 179.05 178.88	178.97 178.97 178.86 178.75 178.73	178.34 178.37 178.83 178.89 178.80	178.94 178.91 178.98 179.07 179.30
21 22 23 24 25	180.42 180.68 180.82 180.95 180.93	181.31 181.38 181.32 181.06 181.04	181.22 181.32 181.15 180.92 181.03	181.34 181.36 181.35 181.46 181.45	180.15 180.48 180.78 180.72 180.61	181.10 181.41 181.49 181.30 181.59	182.09 182.12 182.00 181.98 181.98	180.21 180.31 180.27 180.24 180.23	178.92 179.04 179.13 179.13 179.06	178.68 178.69 178.66 178.70 178.68	178.77 178.74 178.73 178.56 178.77	179.36 179.15 179.06 179.06 178.93
26 27 28 29 30 31	180.72 180.45 180.73 180.89 180.91	180.69 180.64 180.96 181.11 180.96	181.05 181.13 181.13 181.06 181.26 181.34	181.24 181.39 181.69 181.72 181.49 181.29	180.93 181.29 181.38	181.67 181.87 181.91 181.90 181.77 181.62	182.03 181.99 181.93 182.02 182.02	180.00 179.90 180.00 180.00 179.91 179.69	179.01 178.92 179.04 179.15 179.15	178.63 178.64 178.82 178.78 178.84 178.90	178.81 178.83 178.83 178.74 178.83 178.85	178.43 177.95 177.68 177.32 177.41
LOW	180.95	181.38	181.34	181.72	181.78	181.91	182.12	182.05	179.71	178.97	178.89	179.36
		WATED LEW	TET. THE EE	ET BELOW	T.AND_CIIDE	ACE DATTIM	WATED V	FAR OCTOR	FD 1005 T	O SEDTEME	FD 1006	
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEME	BER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				EAR OCTOB	ER 1995 T JUN	O SEPTEME	SER 1996 AUG	SEP
DAY 1 2 3 4 5					DA	AILY LOWES	ST VALUES					SEP 175.10 175.18 175.25 175.26 175.12
1 2 3 4	OCT 177.36 177.30 177.17 176.79	NOV 177.67 177.74 177.74 177.71	DEC 177.57 177.74 178.00 177.71	JAN 177.76 177.77 177.23 177.81	DA FEB 177.67 177.67 177.71 177.58	MAR 177.17 177.24 177.20 177.18	APR 176.95 176.62 177.10 177.28	MAY 176.38 176.30 176.38 176.54	JUN 174.64 174.63 174.57 174.23	JUL 	AUG 174.66 174.60 174.42 174.51	175.10 175.18 175.25 175.26
1 2 3 4 5 6 7 8 9	OCT 177.36 177.30 177.17 176.79 177.08 177.08 176.82 176.82 176.68 176.57	NOV 177.67 177.74 177.74 177.71 177.34 177.55 177.82 177.80 177.23	DEC 177.57 177.74 178.00 177.71 177.89 177.88 177.87 178.07 178.07	JAN 177.76 177.77 177.23 177.81 177.86 177.79 177.54 177.63	FEB 177.67 177.67 177.58 177.51 177.31 177.20 177.25 177.21	MAR 177.17 177.24 177.20 177.18 177.44 177.67 177.87 177.86 177.86 177.56	APR 176.95 176.62 177.10 177.28 177.27 177.03 176.78 176.80 176.80	MAY 176.38 176.30 176.38 176.54 176.54 176.37 176.30 176.18 176.43	JUN 174.64 174.63 174.23 173.95 174.01	JUL	AUG 174.66 174.60 174.42 174.51 174.59 174.92 175.11 175.11 174.88	175.10 175.18 175.25 175.26 175.12 175.49 175.49 175.45 175.48
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 177.36 177.30 177.17 176.79 177.08 177.08 176.82 176.68 176.57 176.56 176.40 176.32 176.46 176.45	NOV 177.67 177.74 177.74 177.71 177.34 177.55 177.82 177.82 177.82 177.70 177.84 177.84	DEC 177.57 177.74 178.00 177.71 177.89 177.88 177.87 178.07 178.07 177.99 177.78 177.59 177.45 177.78	JAN 177.76 177.77 177.23 177.81 177.86 177.79 177.54 177.63 177.56 177.55 177.55 177.57	FEB 177.67 177.67 177.71 177.58 177.51 177.31 177.20 177.21 177.74 177.78 177.75 177.44	MAR 177.17 177.24 177.20 177.18 177.67 177.87 177.86 177.56 177.30 177.20 177.09 177.23 177.23	APR 176.95 176.62 177.10 177.28 177.27 177.03 176.78 176.80 176.63 176.72 176.71 176.81 176.81	MAY 176.38 176.30 176.38 176.54 176.54 176.37 176.30 176.18 176.43 176.43 176.64 176.613 176.70	JUN 174.64 174.63 174.57 174.23 173.95 174.01	JUL 174.27 174.46 174.48 174.40 174.38	AUG 174.66 174.60 174.42 174.51 174.59 174.92 175.11 174.88 174.83 174.81 175.03	175.10 175.18 175.25 175.26 175.12 175.49 175.49 175.48 175.72 175.77 175.70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 177.36 177.30 177.17 176.79 177.08 176.82 176.56 176.56 176.40 176.32 176.46 176.45 176.45 176.46 176.47 176.99	NOV 177.67 177.74 177.74 177.71 177.34 177.55 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.81 177.87 177.81 178.81	DEC 177.57 177.74 178.00 177.71 177.89 177.88 177.87 178.07 177.99 177.78 177.78 177.78 177.78 177.78	JAN 177.76 177.77 177.23 177.81 177.86 177.79 177.54 177.63 177.56 177.55 177.57 177.59 177.51	FEB 177.67 177.67 177.71 177.58 177.51 177.31 177.20 177.25 177.74 177.78 177.76 177.76 177.76 177.49 177.38 176.99	MAR 177.17 177.24 177.24 177.20 177.18 177.44 177.67 177.87 177.86 177.56 177.30 177.20 177.20 177.20 177.21 177.20 177.20 177.36 177.36 177.36 177.36 177.36 177.36 177.36	APR 176.95 176.62 177.10 177.28 177.27 177.03 176.78 176.80 176.80 176.63 176.72 176.71 176.81 176.85 176.71 176.85	MAY 176.38 176.30 176.38 176.54 176.54 176.30 176.18 176.43 176.44 176.43 176.57 175.70 175.71	JUN 174.64 174.63 174.57 174.23 173.95 174.01	JUL 174.27 174.46 174.48 174.48 174.34 174.34 174.37 174.53	AUG 174.66 174.60 174.42 174.51 174.59 174.92 175.11 174.88 174.83 174.83 175.05 175.00 175.05 174.98 174.91 175.11	175.10 175.18 175.25 175.26 175.12 175.49 175.48 175.72 175.70 175.48 175.72 175.73 175.63 175.63 175.63 175.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 177.36 177.30 177.17 176.79 177.08 176.82 176.68 176.56 176.40 176.32 176.45 176.45 176.40 176.99 177.01 176.79 177.17	NOV 177.67 177.74 177.74 177.71 177.34 177.55 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.82 177.83 177.80 177.84 177.87 177.89 177.87 177.90 178.08 178.04 177.83 177.90 177.78	DEC 177.57 177.74 178.00 177.71 177.89 177.88 177.87 178.07 177.99 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78 177.78	JAN 177.76 177.77 177.23 177.81 177.86 177.54 177.56 177.56 177.55 177.57 177.59 177.51 177.11 177.68 177.68 177.56 177.56 177.57 177.59 177.37 177.59	FEB 177.67 177.67 177.71 177.58 177.71 177.31 177.20 177.21 177.74 177.78 177.75 177.44 177.42 177.65 177.49 177.38 177.13 177.13 177.13	MAR 177.17 177.24 177.24 177.20 177.18 177.44 177.67 177.87 177.86 177.56 177.30 177.20 177.20 177.20 177.20 177.44 177.44 177.14 176.85 177.121	APR 176.95 176.62 177.10 177.28 177.27 177.03 176.78 176.80 176.81 176.85 176.71 176.85 176.75 176.75 176.35 176.75 176.35 176.75 176.35 176.75 176.35 176.75 176.35 176.35 176.41 176.55 176.76 176.82 176.82 176.79 176.45	MAY 176.38 176.30 176.38 176.54 176.37 176.30 176.18 176.43 176.44 176.43 176.57 175.62 175.70 175.62 175.73 175.62 175.75 175.62 175.79 175.79 175.79	JUN 174.64 174.63 174.57 174.23 173.95 174.01	JUL 174.27 174.46 174.48 174.34 174.34 174.34 174.53 174.52 174.71 174.77 174.80 174.80	AUG 174.66 174.60 174.42 174.51 174.59 174.92 175.11 175.11 174.88 174.83 174.83 175.05 175.00 175.05 175.11 175.11 175.11 175.23 175.28 175.29 175.29	175.10 175.18 175.25 175.26 175.12 175.49 175.49 175.48 175.72 175.70 175.48 175.72 175.73 175.63 175.63 175.63 175.67 175.67 175.67

SITE	NUMBE	ER 43—C	Continue	d								
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	176.08 176.29 176.06 175.85 175.89	174.46 174.60 174.56 174.67 174.71	174.07 174.19 174.22 174.23 173.84	173.75 173.53 173.47 173.74 173.93		172.67 172.66 172.39 172.98 173.07	173.06 173.16 172.98 172.36 172.40	172.02 172.34 172.40 172.32 172.33	170.62 170.53 170.56 170.52 170.18	170.15 170.45 170.58 170.58 170.52	171.08 171.02 171.05 171.11 171.11	170.75 170.80 170.75 170.42 170.44
6 7 8 9 10	176.04 176.01 175.85 176.03 176.02	174.74 175.10 175.11 175.10 175.05	173.95 174.27 174.25 173.96 173.76	173.99 173.73 173.59 173.52 173.58	173.20 173.22 173.15 173.13 173.14	173.06 172.78 172.93 172.99 172.86	172.82 173.10 173.13 172.99 173.01	172.26 172.10 172.30 172.30 172.08	170.18 170.01 169.88 169.92 169.91	170.51 170.49 170.52 170.51 170.38	171.02 170.96 170.53 170.83 170.89	170.79 170.42 170.57 170.54 170.50
11 12 13 14 15	175.62 175.78 175.78 175.74 175.73	175.22 175.21 175.18 174.95 174.64	174.03 174.10 174.26 174.47 174.47	173.58 173.58 173.58 173.46 173.76	173.05 173.02 172.62	172.86 172.85 173.21 173.22 173.03	173.01 172.90 172.68 172.49 172.82	172.13 172.03 171.77 171.91 171.92	169.65 169.60 169.61 169.58 169.42	170.49 170.56 170.72 170.78 170.72	170.80 170.81 170.78 170.47 170.50	170.57 170.27 170.35 170.34 170.33
16 17 18 19 20	175.64 175.93 175.91 175.37 175.73	174.68 174.72 174.69 174.42 174.62	174.02 174.28 174.22 174.06 173.78	173.76 173.58 173.34 173.33 173.18	 	172.70 173.08 173.23 173.01 172.83	172.82 172.66 172.43 172.34 172.37	171.80 171.69 171.95 171.96 171.88	169.41 169.44 169.46 169.46 169.47	170.66 171.21 171.50 171.69 171.20	170.85 170.89 170.74 170.73 170.87	170.32 170.33 170.96 170.78 170.81
21 22 23 24 25	175.93 175.88 175.81 175.78 175.52	174.62 174.49 174.81 174.81 174.69	173.75 173.88 174.13 174.11 173.99	172.81 172.73 		172.85 172.85 172.83 172.84 172.84	172.30 172.45 172.45 172.56 172.56	171.79 171.76 171.80 171.70 171.60	169.58 169.58 169.68 169.97 170.09	171.13 171.08 170.98 170.91 170.89	170.23 170.17 170.22 170.23 170.34	170.68 170.57 170.68 170.52 170.33
26 27 28 29 30 31	176.23 176.29 176.00 174.71 174.76 174.69	174.77 174.70 174.26 174.13 174.16	173.94 173.52 173.74 173.79 173.96 173.86	 	172.46 172.20 	172.66 172.50 172.69 172.94 172.94 172.73	172.54 172.48 172.09 172.13 172.14	171.66 171.70 171.65 171.32 171.15 170.95	170.09 169.98 170.05 170.07 170.08	170.94 171.14 171.21 171.24 171.17	170.34 170.34 170.35 170.37 170.42 170.38	170.16 170.14 170.19 170.20 170.24
LOW	176.29	175.22	174.47	173.99	173.22	173.23	173.16	172.40	170.62	171.69	171.11	170.96
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	170.21 170.15 170.21 170.25 170.40	170.95 171.05 171.02 171.05 171.13	171.14 171.25 171.22 171.78 171.94	172.68 172.85 173.07 172.83 173.07	173.37 173.61 173.61 173.38 173.52	174.05 174.06 173.96 173.90 174.05	173.80 174.04 174.08 174.02 173.75	174.23 174.34 174.27 174.20 174.18	174.58 174.84 174.84 174.86 174.91	 	 	
6 7 8 9 10	170.58 170.39 170.59 170.69 170.65	171.04 171.02 171.61 171.76 171.72	171.92 171.71 171.73 172.20 172.62	173.22 173.14 173.04 173.20 173.25	173.52 173.37 173.36 173.58 173.64	174.04 174.19 174.30 174.39 174.67	173.89 174.06 174.19 174.20 174.20	174.26 174.32 174.35 174.40 174.39	174.92 174.88 	 	 	
11 12 13 14 15	170.35 170.69 170.97 171.12 171.27	171.73 171.66 171.74 172.22 172.28	172.72 172.70 172.68 172.64 172.52	173.16 173.25 173.18 173.20 172.98	173.66 173.69 173.66 173.58 173.40	174.67 174.10 174.19 174.18 174.06	173.97 173.65 173.95 174.09 174.28	174.30 174.25 174.23 174.66 174.50	 			
16 17 18 19 20	171.24 170.98 171.04 171.11 171.14	172.27 172.28 172.33 172.19 171.89	172.54 172.35 172.59 172.86 172.73	172.91 173.14 173.36 173.29 173.28	173.59 173.59 173.78 173.82 173.78	173.98 173.89 174.16 174.20 174.17	174.40 174.32 174.34 174.39 174.47	174.59 174.42 174.63 174.71 174.60	 	 	 	
21 22 23 24 25	171.14 170.91 170.74 171.17 171.24	172.06 172.29 172.28 172.28 172.48	172.06 172.24 172.17 172.52 172.66	173.30 173.29 173.19 173.07 173.34	173.65 173.64 173.89 173.87 173.30	174.03 174.05 174.03 173.83 173.74	174.49 174.45 174.25 173.88 174.09	174.49 174.46 174.51 174.80 174.81	 	 	 	
26 27 28 29 30 31	171.07 170.80 170.86 170.72 170.66 170.73	172.50 171.83 171.79 171.69 171.59	172.79 172.62 172.76 172.70 172.97 172.96	173.37 173.32 173.46 173.46 173.35 173.40	173.52 173.79 173.92 	173.69 173.72 173.73 173.59 173.63	174.39 174.48 174.46 174.34 174.20	174.76 174.59 174.74 174.77 174.68 174.82	 	 	 	

173.46 173.92 174.67 174.49 174.82 174.92

LOW

171.27 172.50

172.97

SITE NUMBER FROM LOCATION MAP.—44.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E3CBAA2.

SITE ID (STATION NUMBER).—440430103160202.

OTHER IDENTIFIERS.—PE-65A and Sioux Park Mdsn.

LOCATION.—Lat 44°04′27.2″, long 103°16′05.0″, in NE¹/4NE¹/4NW¹/4SW¹/4 sec. 3, T. 1 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,170 ft deep with 934 ft of 3-in. steel casing and 1,170 ft of 1.25-in. steel casing; perforated casing from 972 to 1,170 ft.

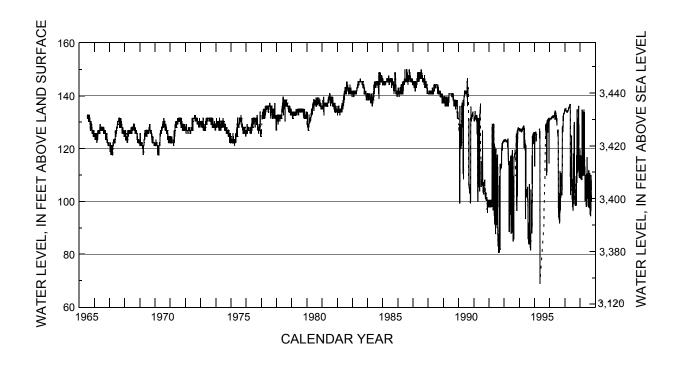
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval. Circular-chart pressure recorder utilized as backup system. Prior to 1991, circular-chart pressure recorder only.

DATUM.—Elevation of land-surface datum is 3,298.9 ft above sea level. Measuring point: Top of recorder platform, 2.3 ft above land-surface datum.

REMARKS.—Records fair. Water levels may be affected by amount of fluid used for antifreeze. Water levels since 1989 affected by pumping of nearby wells. Effects prior to 1989 unknown. To keep current records consistent with historical records, no antifreeze corrections are applied.

PERIOD OF RECORD.—July 1965 to September 1998.

EXTREMES.—Highest daily water level, 149.95 ft above land-surface datum, numerous days between June 19 and Oct. 4, 1986, plus July 16, 1987; lowest daily water level, 68.81 ft above land-surface datum, May 13, 1995. Note: Highest values published by Winter (1994) are in error. Record low may be because of equipment failure.



WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		WATER LE	VEL, IN FI	EEL ABOVE		AILY LOWES			3ER 1994 :	IO SEPTEMI	3ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+83.16	+95.11	+121.76	+122.10	+126.37							
2	+85.26	+96.26	+122.38	+122.26	+126.14							
3	+84.91	+96.19	+122.79	+121.57	+125.91							
4	+84.80	+91.35	+122.38		+126.30			1107 50				
5	+91.70	+90.43	+124.87	+113.27	+126.02			+127.52				
6 7	+93.31 +104.52	+96.03	+125.22 +125.33	+123.99	+125.84 +124.52			+124.99 +123.99				
8	+98.99	+99.38	+124.22		+124.52			+126.53				
9		+117.42	+124.69		+125.72			+123.99				
10	+91.28		+125.26		+125.61			+123.95				
11	+89.83	+109.69	+125.56	+125.84	+122.91			+108.15				
12	+89.80	+124.41	+124.57	+125.61	+124.69			+85.31				
13	+95.96	+124.76	+125.56	+125.49	+125.10			e+68.81				
14	+94.65	+124.52	+122.33	+125.72								
15	+99.49	+122.79	+125.56	+125.91							e+90.9	
16		+121.57		+126.14								
17	+97.53	+124.92		+125.91								
18 19	+94.58 +93.84	+124.52 +124.69	+125.96 +126.14	+125.96 +125.96								
20			+125.96									
			+122.15									
21 22	+88.93 +88.77	+124.92 +124.80		+125.91 +125.72								
23	+94.00	+123.42	+125.56	+125.72								
24	+93.08	+124.87	+125.96	+125.72								
25	+93.08	+125.26	+126.14	+125.72								
26	+99.72	+125.49	+126.07	+126.14								
27	+91.47	+125.56	+123.03	+126.07								+127.32
28	+87.96		+122.38	+125.96								+128.45
29	+90.38		+123.30 +122.79	+125.68 +125.96								+128.91
30 31	+91.12 +95.11		+122.79	+125.96								+128.91
LOW	+83.16		+121.76									+127.32
LOW	+03.10	+90.43	+121.70	T113.27	+122.00			+00.01			+90.90	+127.32
		WATED I.E.	JET. TN EI	FET ABOVE	T.AND_SIID	ארד האדווש	MATED V	TEND OCTOR	2FD 1995	CEDTEMI	3FD 1996	
		WATER LE	VEL, IN F	EET ABOVE		FACE DATUM			BER 1995	TO SEPTEMI	BER 1996	
DAV	OCT		·		D	AILY LOWES	ST VALUES					CFD
DAY	OCT	NOV	DEC	JAN	D FEB	AILY LOWES	T VALUES	MAY	JUN	JUL	AUG	SEP
1	+128.70	NOV +129.90	DEC +131.28	JAN +130.73	FEB	MAR +131.86	APR +132.14	MAY +132.99	JUN +131.72	JUL	AUG +96.17	+101.45
1 2	+128.70 +128.70	NOV +129.90 +129.95	DEC +131.28 +131.08	JAN +130.73 +130.78	D FEB 	MAR +131.86 +131.82	APR +132.14 +132.18	MAY +132.99 +133.22	JUN +131.72 +131.72	JUL 	AUG +96.17 +95.64	+101.45 +95.64
1 2 3	+128.70 +128.70 +128.79	NOV +129.90 +129.95 +130.08	DEC +131.28 +131.08 +131.01	JAN +130.73 +130.78 +131.19	FEB 	MAR +131.86 +131.82 +131.86	APR +132.14 +132.18 +131.95	MAY +132.99 +133.22 +133.52	JUN +131.72 +131.72 +132.39	JUL	AUG +96.17 +95.64 +95.41	+101.45 +95.64 +100.76
1 2	+128.70 +128.70	NOV +129.90 +129.95 +130.08 +130.27	DEC +131.28 +131.08	JAN +130.73 +130.78 +131.19 +130.98	FEB 	MAR +131.86 +131.82	APR +132.14 +132.18 +131.95 +131.88	MAY +132.99 +133.22	JUN +131.72 +131.72 +132.39 +132.09	JUL 	AUG +96.17 +95.64 +95.41	+101.45 +95.64
1 2 3 4 5	+128.70 +128.70 +128.79 +126.42 +125.40	NOV +129.90 +129.95 +130.08 +130.27 +130.41	DEC +131.28 +131.08 +131.01 +131.19 +127.71	JAN +130.73 +130.78 +131.19 +130.98 +131.03	FEB	MAR +131.86 +131.82 +131.86 +131.84 +131.68	APR +132.14 +132.18 +131.95 +131.88 +131.88	MAY +132.99 +133.22 +133.52 +133.64 +133.64	JUN +131.72 +131.72 +132.39 +132.09 +132.60	JUL 	AUG +96.17 +95.64 +95.41 +99.22 +97.21	+101.45 +95.64 +100.76 +101.27 +98.02
1 2 3 4 5	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08	JAN +130.73 +130.78 +131.19 +130.98 +131.03	FEB	MAR +131.86 +131.82 +131.86 +131.84 +131.68	APR +132.14 +132.18 +131.95 +131.88 +131.88	MAY +132.99 +133.22 +133.52 +133.64 +133.57	JUN +131.72 +131.72 +132.39 +132.09 +132.60	JUL 	AUG +96.17 +95.64 +95.41 +99.22 +97.21	+101.45 +95.64 +100.76 +101.27 +98.02
1 2 3 4 5	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.34	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03	FEB +131.42	MAR +131.86 +131.82 +131.86 +131.84 +131.68 +131.63 +131.58	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16	MAY +132.99 +133.22 +133.52 +133.64 +133.64 +133.78	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60	JUL	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54
1 2 3 4 5	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08	JAN +130.73 +130.78 +131.19 +130.98 +131.03	FEB	MAR +131.86 +131.82 +131.86 +131.86 +131.68 +131.63 +131.63 +131.63	APR +132.14 +132.18 +131.95 +131.88 +131.88	MAY +132.99 +133.22 +133.52 +133.64 +133.57	JUN +131.72 +131.72 +132.39 +132.60 +131.95 +132.60 +131.47	JUL 	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12
1 2 3 4 5 6 7 8	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.34	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.05 +131.28	FEB +131.42 +131.42	MAR +131.86 +131.82 +131.84 +131.68 +131.63 +131.58 +131.63 +131.83	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16	MAY +132.99 +133.22 +133.52 +133.64 +133.64 +133.78 +131.19	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47	JUL +126.60	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12
1 2 3 4 5 6 7 8 9	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.52 +124.50	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.34 +130.35 +130.55 +130.27	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.10 +131.15	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.03 +131.03 +131.32 +131.28 +131.28	FEB	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.58 +131.63 +131.92 +132.09	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.21	MAY +132.99 +133.22 +133.52 +133.64 +133.64 +133.78 +131.19 +130.92 +133.34	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12	JUL +126.60 +126.62	+96.17 +95.64 +95.41 +99.22 +97.21 +95.48 +93.98 +93.93 +102.17	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31
1 2 3 4 5 6 7 8 9 10	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.35 +130.55 +130.27 +130.32	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.15 +131.31	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.03 +131.31 +131.31	FEB	MAR +131.86 +131.82 +131.84 +131.68 +131.63 +131.58 +131.63 +131.58 +131.63 +131.58 +131.63	APR +132.14 +132.18 +131.95 +131.88 +131.2.16 +132.16 +132.16 +132.21 +132.11	MAY +132.99 +133.22 +133.52 +133.64 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +131.47 +131.31 +131.12	JUL +126.60 +126.62	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.98 +93.91 +98.64	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04
1 2 3 4 5 6 7 8 9 10	+128.70 +128.70 +128.79 +126.42 +125.40 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.35 +130.55 +130.27	DEC +131.28 +131.01 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.10 +131.15 +131.11	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.28 +131.31 +131.31	FEB	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.63 +131.63 +131.63 +131.63 +131.63	APR +132.14 +132.18 +131.95 +131.88 +131.2.16 +132.16 +132.16 +132.16 +132.11 +132.16	MAY +132.99 +133.22 +133.52 +133.64 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98	JUN +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12	JUL +126.60 +126.62 +126.02 +126.02	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.93 +102.17 +98.64 +94.67	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12
1 2 3 4 5 6 7 8 9 10	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.35 +130.55 +130.27	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.10 +131.15 +131.11 +131.31 +131.42	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.28 +131.31 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24	MAR +131.86 +131.82 +131.84 +131.68 +131.63 +131.58 +131.63 +131.58 +131.63 +131.58 +131.63	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.11 +132.11 +132.11 +132.11	MAY +132.99 +133.22 +133.52 +133.64 +133.64 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01	JUL +126.60 +126.62	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.93 +102.17 +98.64 +94.67	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89
1 2 3 4 5 6 7 8 9 10	+128.70 +128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69 +128.72 +129.00	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.45 +130.55 +130.27 +130.32 +130.62 +130.57	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.49 +131.49	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.28 +131.52	MAR +131.86 +131.82 +131.88 +131.84 +131.68 +131.63 +131.58 +131.63 +131.22 +132.09 +132.11 +132.28 +132.39	APR +132.14 +132.18 +131.95 +131.88 +131.2.16 +132.16 +132.16 +132.16 +132.21 +132.11 +132.16 +132.21	MAY +132.99 +133.22 +133.52 +133.64 +133.76 +133.78 +131.19 +130.92 +133.34 +134.12 +134.12 +134.12	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.47 +131.31 +131.12 +131.84 +131.01	JUL +126.60 +126.02 +126.02	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.34 +130.45 +130.55 +130.27 +130.32 +130.62 +130.57 +130.75 +126.09	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.10 +131.15 +131.31 +131.42 +131.42 +131.49 +131.40 +118.23	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.28 +131.31 +131.31 +131.31 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.24	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.58 +131.63 +131.22 +132.09 +132.11 +132.21 +132.28 +132.39 +132.44 +132.53	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11	MAY +132.99 +133.22 +133.52 +133.64 +133.78 +131.19 +130.92 +133.74 +133.71 +133.71 +133.71 +133.71 +133.71	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +131.01 +130.32	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.02 +126.05	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.45 +130.55 +130.62 +130.62 +130.62 +130.62 +130.57 +126.09 +130.50	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.49 +131.40 +118.23	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.24	MAR +131.86 +131.82 +131.84 +131.68 +131.63 +131.58 +131.63 +131.52 +132.09 +132.11 +132.28 +132.29 +132.12 +132.39 +132.44 +132.53 +132.48	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.21 +132.11 +132.16 +132.37 +132.37	MAY +132.99 +133.22 +133.52 +133.64 +133.76 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.31 +131.08	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.47 +131.31 +131.12 +131.84 +131.01 +131.01 +130.32 +131.52	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+128.70 +128.70 +128.79 +126.42 +125.40 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.35 +130.55 +130.55 +130.27 +130.32 +130.62 +130.75 +126.09 +130.78 +130.78	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.19 +131.05 +131.10 +131.15 +131.31 +131.42 +131.42 +131.49 +131.40 +118.23	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.52 +131.52 +131.75	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.58 +131.63 +131.22 +132.09 +132.11 +132.28 +132.39 +132.48 +132.37 +132.48 +132.37	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.09 +132.21 +132.11 +132.11 +132.12 +132.37 +132.37 +132.37 +132.48	MAY +132.99 +133.22 +133.52 +133.64 +133.78 +131.19 +130.92 +133.74 +133.71 +133.71 +133.71 +133.71 +133.71 +133.71 +133.71	JUN +131.72 +131.72 +132.39 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +130.75 +130.62	JUL +126.60 +126.02 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.45 +130.55 +130.62 +130.62 +130.67 +130.75 +126.09 +130.78 +130.96 +130.71	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.42 +131.42 +114.42 +114.42 +114.60	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.28	FEB +131.42 +131.42 +131.24 +131.24 +131.24 +131.25 +131.52 +131.52 +131.75 +131.75	MAR +131.86 +131.82 +131.86 +131.84 +131.68 +131.63 +131.58 +131.63 +131.52 +132.09 +132.11 +132.28 +132.29 +132.12 +132.28 +132.37 +132.44 +132.53	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.21 +132.11 +132.11 +132.12 +132.11 +132.13 +132.23 +132.21 +132.37	MAY +132.99 +133.22 +133.52 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.31 +132.41 +131.08 +133.29 +133.11 +131.08	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.61 +131.31 +131.12 +131.84 +131.01 +131.01 +130.32 +131.52 +130.75 +130.62 +131.62	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.15 +124.80	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +96.84 +106.62 +110.80
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.45 +130.55 +130.62 +130.62 +130.67 +130.75 +126.09 +130.78 +130.96 +130.71	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.42 +131.42 +114.42 +114.42 +114.60	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.28	FEB +131.42 +131.42 +131.24 +131.24 +131.24 +131.25 +131.52 +131.52 +131.75 +131.75	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.58 +131.63 +131.22 +132.09 +132.11 +132.28 +132.39 +132.48 +132.37 +132.48 +132.37	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.21 +132.11 +132.11 +132.12 +132.11 +132.13 +132.23 +132.21 +132.37	MAY +132.99 +133.22 +133.52 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.31 +132.41 +131.08 +133.29 +133.11 +131.08	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.61 +131.31 +131.12 +131.84 +131.01 +131.01 +130.32 +131.52 +130.75 +130.62 +131.62	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.15 +124.80	AUG +96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +96.84 +106.62
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	+128.70 +128.79 +126.42 +125.40 +124.59 +124.52 +124.32 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +109.81 +109.81 +113.64	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.45 +130.55 +130.27 +130.32 +130.62 +130.75 +126.09 +130.79 +130.50 +130.78 +130.68	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.42 +131.42 +114.42 +114.42 +114.60	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.42 +131.31 +131.42 +131.31 +131.42 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.24 +131.25 +131.52 +131.75 +131.77 +131.70	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.63 +131.63 +131.82 +132.11 +132.21 +132.28 +132.39 +132.44 +132.53 +132.48 +132.48 +132.48 +132.48 +132.48 +132.25 +132.18 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11 +132.11 +132.12 +132.37 +132.37 +132.37 +132.37 +132.38 +132.48 +132.48	MAY +132.99 +133.52 +133.52 +133.64 +133.57 +133.78 +131.19 +130.92 +133.34 +133.98 +134.12 +134.31 +131.08 +134.12 +134.31 +131.08 +134.12 +134.31 +131.08	JUN +131.72 +131.72 +132.39 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +131.52 +131.52 +131.53	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15 +124.80 +124.59	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63 +93.98	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +96.84 +96.84 +106.62 +110.80 +107.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	+128.70 +128.79 +126.42 +125.40 +124.62 +125.40 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +10.84 +10.84 +113.64 +113.73 +113.94	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.55 +130.57 +130.57 +130.57 +130.75 +126.09 +130.76 +130.76 +130.76 +130.76 +130.76 +130.76 +130.77 +130.96	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.49 +131.49 +131.49 +131.49 +131.49 +131.49 +131.49 +131.59 +130.59 +130.59 +130.71	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.32 +131.31 +131.32 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.52 +131.52 +131.55 +131.52 +131.70 +131.70 +131.70	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.58 +132.09 +132.11 +132.28 +132.39 +132.39 +132.39 +132.18 +132.44 +132.53	APR +132.14 +132.18 +131.95 +131.88 +131.2.16 +132.16 +132.16 +132.21 +132.11 +132.11 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.35	MAY +132.99 +133.22 +133.64 +133.64 +133.77 +133.78 +134.12 +134.12 +134.12 +134.12 +134.12 +134.12 +134.12 +134.13 +132.41 +131.08 +134.12 +131.08 +133.29 +134.13 +132.11 +133.80 +133.10 +133.11	JUN +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.01 +130.32 +131.52 +130.62 +131.03 +131.54 +131.04	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15 +124.80 +124.59 +125.47 +126.69	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +94.67 +94.81 +94.94 +94.10 +94.81 +94.10 +93.63 +93.98 +93.98 +93.98	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +96.84 +106.62 +110.80 +107.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	+128.70 +128.79 +126.42 +125.40 +124.59 +124.52 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +113.94 +112.81	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.45 +130.55 +130.27 +130.32 +130.62 +130.75 +126.09 +130.78 +130.68 +130.78 +130.68 +130.78 +130.85 +130.85	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.11 +131.42 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.71 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.42 +131.31 +131.42 +131.31 +131.42 +131.31 +131.42 +131.31	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.52 +131.75 +131.70 +131.70 +131.70 +131.70	MAR +131.86 +131.86 +131.86 +131.86 +131.68 +131.68 +131.63 +131.58 +131.63 +131.22 +132.09 +132.11 +132.28 +132.29 +132.11 +132.28 +132.37 +132.48 +132.37 +132.48 +132.37 +132.48 +132.37 +132.48 +132.25 +132.18 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.09 +132.21 +132.11 +132.12 +132.13 +132.21 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48	MAY +132.99 +133.22 +133.52 +133.64 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.31 +131.08 +134.12 +134.31 +131.08 +134.12 +134.31 +131.08 +134.12 +134.31 +131.08	JUN +131.72 +132.39 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +130.75 +130.38 +131.54 +130.08	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15 +124.59 +124.59 +124.59 +126.69 +126.69	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.81 +94.81 +94.94 +94.94 +92.94 +92.94 +92.94	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +96.84 +96.84 +106.62 +110.80 +107.27 +104.43 +104.43 +107.27
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.73 +113.94 +112.81 +112.69	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.45 +130.55 +130.57 +130.62 +130.62 +130.75 +126.09 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.89 +130.78 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.71 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.28 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.42 +131.31 +131.42 +131.31 +131.40 +131.40	FEB +131.42 +131.42 +131.24 +131.24 +131.24 +131.52 +131.52 +131.57 +131.70 +131.70 +131.70 +131.70 +131.72 +131.72 +131.72	MAR +131.86 +131.82 +131.68 +131.68 +131.68 +131.63 +131.58 +131.63 +131.59 +132.11 +132.28 +132.39 +132.41 +132.37 +132.48 +132.37 +132.48 +132.37 +132.48 +132.37 +132.46 +132.25 +132.18 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.88 +131.2.07 +132.16 +132.09 +132.11 +132.16 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.65	MAY +132.99 +133.22 +133.52 +133.64 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.31 +132.41 +131.08 +132.11 +131.08 +132.11 +131.08 +132.11 +131.98 +132.11	JUN +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.31 +131.12 +131.01 +130.32 +131.52 +130.75 +130.75 +130.38 +131.54 +130.08 +131.54	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.15 +124.59 +124.59 +124.59 +124.59 +125.47 +126.69	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +	+101.45 +95.64 +100.76 +101.27 +98.02 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +96.84 +106.62 +110.80 +107.27 +104.43 +101.39 +101.39 +103.21
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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	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.50 +127.69 +128.72 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.73 +113.94 +112.81 +112.69 +118.46 +114.44	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.45 +130.55 +130.57 +130.62 +130.67 +130.75 +126.09 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78 +130.78	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.71 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.42 +131.33 +131.10 +131.28 +131.38 +131.38 +131.38 +131.38 +131.38 +131.38 +131.38	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.52 +131.52 +131.57 +131.77 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70	MAR +131.86 +131.82 +131.68 +131.68 +131.63 +131.58 +131.63 +131.59 +132.11 +132.28 +132.29 +132.11 +132.28 +132.37 +132.46 +132.37 +132.48 +132.37 +132.46 +132.25 +132.18 +132.21 +131.79 +132.46 +132.25 +132.18 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.16 +132.21 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.58 +132.65 +132.58	MAY +132.99 +133.22 +133.64 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +131.2 +131.47 +133.71 +133.80 +132.11 +133.80 +133.13.80 +133.13.80 +131.12	JUN +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +130.75 -130.75 -130.75 -130.75	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.15 +125.98 +125.15 +124.59 +124.59 +124.59 +124.59 +126.69 +126.69 +125.40 +125.40 +125.40	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.30 +103.00 +103.00 +105.16
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 25 26 27	+128.70 +128.79 +126.42 +125.40 +124.62 +125.40 +124.52 +124.52 +124.52 +124.50 +127.69 +128.72 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +112.81 +112.81 +112.81 +112.81 +112.81 +114.54 +114.44 +114.40	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.55 +130.57 +130.62 +130.57 +126.09 +130.78 +130.96 +130.71 +130.89 +130.89 +131.03 +131.03 +131.03	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.49 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.89 +130.89 +130.89 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.25 +131.52 +131.52 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.71 +131.70 +131.72 +131.84 +131.65	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.58 +132.09 +132.11 +132.28 +132.29 +132.11 +132.28 +132.39 +132.44 +132.53 +132.42 +132.39 +132.42 +132.39 +132.41 +132.25 +132.10 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.95 +132.16 +132.16 +132.16 +132.21 +132.11 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.58 +132.67	MAY +132.99 +133.22 +133.64 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.12 +134.12 +134.12 +134.13 +132.41 +131.08 +133.29 +132.11 +131.47 +133.80 +133.98 +131.12 +133.80 +133.98	JUN +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.47 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +130.75 -130.75 -130.75 -130.75	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.15 +125.98 +125.15 +124.59 +124.59 +124.59 +124.59 +126.69 +126.69 +125.40 +125.40 +125.40	+96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.39 +103.00 +103.00 +103.00
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 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+128.70 +128.79 +126.42 +125.40 +124.59 +124.52 +124.32 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +113.94 +112.69 +118.46 +114.44 +114.90 +112.76	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.55 +130.57 +130.75 +130.75 +130.62 +130.75 +130.68 +130.78 +130.68 +130.71 +130.68 +130.71 +130.68 +131.01 +131.03	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.10 +131.15 +131.42 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.25 +131.52 +131.52 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.71 +131.70 +131.72 +131.84 +131.65	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.58 +132.09 +132.11 +132.28 +132.29 +132.11 +132.28 +132.39 +132.44 +132.53 +132.42 +132.39 +132.42 +132.39 +132.41 +132.25 +132.10 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.95 +132.16 +132.16 +132.16 +132.21 +132.11 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.58 +132.67	MAY +132.99 +133.22 +133.64 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.12 +134.12 +134.12 +134.13 +132.41 +131.08 +133.29 +132.11 +131.47 +133.80 +133.98 +131.12 +133.80 +133.98	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.31 +131.31 +131.32 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15 +124.59 +124.59 +125.47 +126.69 +125.47 +126.69 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49	#96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63 +93.98 +93.98 +92.94 +92.71 +92.60 +92.20 +91.70 +98.39 +92.94	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +96.84 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.39 +103.00 +103.00 +105.63 +106.68
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+128.70 +128.79 +126.42 +125.40 +124.99 +124.62 +124.52 +124.52 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +112.69 +118.46 +114.40 +114.90 +114.90 +114.90 +114.90 +114.90 +112.76 +110.98	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.55 +130.57 +130.75 +130.75 +130.76 +130.78 +130.78 +130.78 +130.79 +130.79 +130.71 +130.68 +130.75 +130.75 +130.71 +130.68 +131.03 +131.03 +131.03 +131.03 +131.03	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.11 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.25 +131.52 +131.52 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.71 +131.70 +131.72 +131.84 +131.65	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.58 +132.09 +132.11 +132.28 +132.29 +132.11 +132.28 +132.39 +132.44 +132.53 +132.42 +132.39 +132.42 +132.39 +132.41 +132.25 +132.10 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.95 +132.16 +132.16 +132.16 +132.21 +132.11 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.58 +132.67	MAY +132.99 +133.22 +133.64 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.12 +134.12 +134.12 +134.13 +132.41 +131.08 +133.29 +132.11 +131.47 +133.80 +133.98 +131.12 +133.80 +133.98	JUN +131.72 +132.39 +132.09 +132.60 +131.47 +131.31 +131.12 +131.31 +131.12 +131.84 +131.24 +131.01 +131.01 +130.32 +131.52 +131.75 +130.75 +130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.42 +126.05 +125.98 +125.15 +124.59 +124.59 +124.59 +125.40 +125.40 +125.40 +125.40 +125.40 +125.40 +125.15	#96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63 +93.98 +93.63 +93.98 +	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.30 +103.21 +101.30 +105.63 +105.63 +105.63 +105.63 +105.63 +106.81 +108.93
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 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+128.70 +128.79 +126.42 +125.40 +124.59 +124.52 +124.32 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +113.94 +112.69 +118.46 +114.44 +114.90 +112.76	NOV +129.90 +129.95 +130.08 +130.27 +130.41 +130.36 +130.55 +130.57 +130.62 +130.62 +130.67 +130.75 +126.09 +130.78 +130.96 +130.78 +130.96 +130.71 +130.68 +131.03 +131.03 +131.03 +131.03 +131.03 +131.03 +131.03	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.11 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.59 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31 +131.12 +131.31	FEB +131.42 +131.42 +131.24 +131.24 +131.25 +131.52 +131.52 +131.70 +131.70 +131.70 +131.70 +131.70 +131.70 +131.71 +131.70 +131.72 +131.84 +131.65	MAR +131.86 +131.82 +131.84 +131.63 +131.58 +131.63 +131.58 +132.09 +132.11 +132.28 +132.29 +132.11 +132.28 +132.39 +132.44 +132.53 +132.42 +132.39 +132.42 +132.39 +132.41 +132.25 +132.10 +132.21	APR +132.14 +132.18 +131.95 +131.88 +131.95 +132.16 +132.16 +132.16 +132.21 +132.11 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.58 +132.67	MAY +132.99 +133.22 +133.64 +133.64 +133.77 +133.78 +131.19 +130.92 +133.34 +133.71 +133.98 +134.12 +134.12 +134.12 +134.12 +134.13 +132.41 +131.08 +133.29 +132.11 +131.47 +133.80 +133.98 +131.12 +133.80 +133.98	JUN +131.72 +131.72 +132.39 +132.09 +132.60 +131.95 +132.60 +131.31 +131.31 +131.32 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52 +131.52	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.05 +125.98 +125.15 +124.59 +124.59 +125.47 +126.69 +125.47 +126.69 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49 +125.49	#96.17 +95.64 +95.41 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63 +93.98 +93.98 +92.94 +92.71 +92.60 +92.20 +91.70 +98.39 +92.94	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +96.84 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.39 +103.00 +103.00 +105.63 +106.68
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 20 20 20 20 20 20 20 20 20 20 20 20 20	+128.70 +128.79 +126.42 +125.40 +124.99 +124.52 +124.32 +124.50 +127.69 +128.72 +129.00 +129.28 +129.55 +117.17 +114.51 +110.84 +109.81 +113.64 +113.73 +113.94 +112.69 +118.46 +114.40 +112.76 +110.98 +114.90 +112.76 +110.98 +129.67	NOV +129.90 +129.95 +130.08 +130.27 +130.34 +130.45 +130.55 +130.57 +130.75 +130.75 +126.09 +130.76 +130.78 +130.78 +130.78 +130.79 +130.71 +130.68 +130.71 +130.68 +131.03 +131.03 +131.03 +131.03 +131.03 +131.03 +131.04	DEC +131.28 +131.08 +131.01 +131.19 +127.71 +131.08 +131.10 +131.15 +131.31 +131.42 +131.49 +131.40 +118.23 +115.39 +114.72 +114.60 +129.32 +130.71 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89 +130.89	JAN +130.73 +130.78 +131.19 +130.98 +131.03 +131.05 +131.28 +131.31 +131.31 +131.31 +131.31 +131.12 +131.31 +131.12 +131.31 +131.42 +131.33 +131.10 +131.28 +131.38	FEB +131.42 +131.42 +131.42 +131.24 +131.24 +131.24 +131.52 +131.52 +131.51 +131.75 +131.77 +131.70 +131.61	MAR +131.86 +131.82 +131.68 +131.68 +131.63 +131.58 +131.63 +131.59 +132.11 +132.28 +132.29 +132.11 +132.28 +132.37 +132.46 +132.37 +132.48 +132.37 +132.46 +132.25 +132.18 +132.21 +131.79 +132.46 +132.25 +132.18 +132.21	APR +132.14 +132.18 +131.88 +131.88 +131.88 +132.07 +132.16 +132.16 +132.16 +132.16 +132.21 +132.37 +132.37 +132.37 +132.37 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.48 +132.49 +132.74 +132.75 +132.71 +132.71	MAY +132.99 +133.22 +133.64 +133.64 +133.78 +131.19 +130.92 +133.34 +131.71 +133.98 +134.12 +134.31 +132.41 +131.47 +133.71 +133.80 +131.12 +133.98 +131.38 +131.12 +132.95 +132.69 +133.43	JUN +131.72 +132.39 +132.09 +132.60 +131.47 +131.31 +131.12 +131.31 +131.12 +131.84 +131.24 +131.01 +130.32 +131.52 +131.52 +131.75 +130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75 -130.75	JUL +126.60 +126.62 +126.02 +126.02 +126.02 +126.42 +126.05 +125.98 +125.15 +124.59 +124.59 +124.59 +125.40 +125.5 +124.59 +125.47 +126.69 +125.49 +125.40 +125.40 +125.30 +125.30 +126.69 +127.15 +126.69 +127.15 +125.40 +127.15 +125.40 +127.15 +12	AUG +96.17 +95.64 +99.22 +97.21 +95.76 +95.48 +93.98 +93.93 +102.17 +98.64 +94.67 +93.63 +93.52 +94.10 +94.81 +94.10 +93.63 +93.98 +93.98 +92.94 +92.71 +92.60 +92.20 +91.70 +98.39 +92.94 +92.32 +93.07	+101.45 +95.64 +100.76 +101.27 +98.02 +111.26 +111.54 +105.12 +102.98 +99.31 +98.04 +103.12 +102.89 +104.27 +99.79 +96.84 +106.62 +110.80 +107.27 +104.43 +103.21 +101.39 +103.00 +105.63 +105.63 +106.81 +105.63 +106.81 +106.81 +106.81 +108.93

SITE NUMBER 44—Continued
WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY LOWEST VALUES

					D.	AILY LOWE	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	+127.02 +127.78 +128.52 +128.47 +128.45	+133.22 +133.20 +133.15 +133.20 +133.43	+134.79 +135.00 +135.11 +134.93 +134.84	+134.28 +134.24 +134.10 +133.91 +133.94	+134.05 +134.19 +133.94 +133.91 +133.96	+135.23 +135.25 +135.41 +135.51 +135.41	+136.68 +136.54 +136.57 +136.68 +136.68	+111.17 +116.57 +116.64 +115.62 +113.82	+102.15 +108.47 +105.54 +104.29 +104.96	+118.16 +117.56 +113.80 +113.17 +110.64	+100.28 +99.59 +99.59 +99.66 +104.36
6 7 8 9 10	 	+128.52 +128.08 +127.99 +128.26 +128.35	+133.27 +133.22 +133.31 +133.48 +133.50		+133.98 +133.98 +134.01 +133.98 +133.94	+133.98 +134.12 +134.05 +134.05 +134.28	+135.37 +135.35 +135.30 +135.44 +135.51	+136.78 +136.73 +136.66 +136.66 +136.80	+109.55 +115.14 +109.23 +105.54 +106.21	+98.78 +98.11	+115.69 +111.38 +107.94 +108.86 +128.93	+102.86 +103.07 +99.31 +98.32 +98.39
11 12 13 14 15	 	+128.08 +127.66 +126.56 +126.56 +127.34	+133.31 +133.36 +133.41 +133.29 +133.27	+134.65 +134.70 +134.84 +135.09 +134.79	+133.91 +134.01 +133.89 +133.91 +133.96	+134.24 +134.19 +134.10 +134.08 +134.21	+135.48 +135.58 +135.60 +135.78 +135.62	+136.87 +110.08 +109.23 +109.76 +109.94	+124.96 +114.31 +113.45 +118.02 +118.02	+98.57 +101.48 +101.94 +98.04 +97.14		+98.39 +101.55 +99.17 +99.17 +99.17
16 17 18 19 20	+110.68 +108.68 +109.97	+127.36 +127.73 +128.22 +128.19 +128.82	+133.50 +133.41 +133.48 +133.64 +133.91	+134.88 +135.02 +135.07	+133.91 +134.01 +133.89 +133.98 +133.98	+134.58 +134.28 +134.21 +134.42 +134.61	+135.64 +135.78 +135.83 +135.90 +136.04	+106.12 +103.23 +102.45 +108.70 +105.31	+114.77 +109.07 +107.34 +109.55 +109.00		+117.95 +129.97 +114.70 +114.24 +107.94	+98.66 +98.64 +98.29 +98.64 +102.68
21 22 23 24 25	+107.45 +106.60 +106.60 +102.86 +102.33	+128.79 +131.91 +132.18 +132.28 +130.52	+133.91 +134.01 +134.03 +134.10 +134.24	+135.02 +134.95 +134.65 +134.28 +134.28	+134.03 +133.91 +133.91 +133.89 +134.19	+134.47 +134.56 +134.63 +134.65 +134.70	+136.01 +135.92 +135.94 +135.99 +135.99	+103.99 +108.40 +107.45 +107.43 +116.82	+112.87 +110.24 +108.17 +106.95 +101.89	+104.80 +106.60	+107.34 +106.65 +105.56 +103.49 +103.49	+106.65 +105.91 +105.98 +103.21 +102.75
26 27 28 29 30 31	+106.58 +104.41 +104.78 +108.81 +110.75 +126.39	+132.00 +132.55 +132.90 +133.08 +133.08	+134.35 +134.63 +134.65 +134.51 +134.70	+134.19 +134.10 +134.19 +134.10 +134.38 +134.42			+136.20 +136.27 +136.41 +136.54 +136.68	+113.82 +111.03 +111.12 +113.08 +115.34 +114.33	+101.46 +100.72 +100.79 +102.56 +101.73	+102.91 +109.74	+100.92 +100.65 +102.22 +99.24 +99.26 +99.79	+104.18 +104.18 +109.55 +102.31 +100.97
LOW	+102.33	+126.56	+133.15	+134.10	+133.89	+133.91	+135.23	+102.45	+100.72	+96.52	+99.24	+98.29
		WATER LEV	ZEL. IN FI	EET ABOVE	I.AND-SIIRE	PACE DATIM	1, WATER Y	EAR OCTOR	RER 1997 T	O SEPTEME	RER 1998	
		WITTER DE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JET TEOVE			ST VALUES	Eric Octor	,510 1997 1	O DEL TEM	JER 1990	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+101.20 +100.46 +99.19 +98.59 +98.59	+110.71 +111.31 +112.37 +112.04 +114.37	+129.12 +117.00 +111.28 +111.19 +115.11	+119.66 +114.56 +112.18 +112.32 +110.41	+111.79 +108.47 +108.35 +111.12 +108.49	+113.89 +112.81 +111.17 +112.02 +115.07	+114.37 +113.11 +111.42 +111.12 +134.75	+101.20 +108.75 +101.80 +100.42 +100.39	+98.36 +97.95 +98.25 +102.84 +103.09	+107.87 +103.85 +101.02 +101.02 +106.37	+108.51 +102.47 +103.28 +101.36 +101.36	+96.22 +95.76 +95.55 +95.23 +94.93
6 7 8 9 10	+98.64 +98.71 +100.88 +117.49 +109.65	+114.79 +126.21 +113.36 +112.21 +113.27	+115.46 +113.50 +110.52 +109.69 +113.96	+109.78 +109.65 +108.98 +108.81 +112.55	+108.49 +110.59 +109.28 +108.88 +110.68	+115.87 +113.54 +133.91 +114.24 +114.03	+125.52 +112.92 +112.67 +112.48 +111.19	+100.49 +104.57 +102.03 +104.71 +104.69	+104.64 +110.50 +103.28 +103.07 +102.63	+104.45 +110.50 +103.53 +102.68 +101.94	+104.41 +100.81 +102.72 +101.11 +98.04	+95.18 +100.19 +99.26 +97.51 +96.06
11 12 13 14 15	+111.51		+116.50 +113.13		+108.10	+111.91 +115.25 +112.69	+110.43 +116.13 +115.25 +116.52 +133.75	+107.66 +107.68 +106.32	+104.55 +104.87 +104.27	+98.36 +98.76	+98.04 +104.13 +106.65 +99.03 +99.26	+94.44 +94.42 +99.36 +98.53 +98.27
16							T133.73	+107.06	+107.80	+98.83	+33.20	T 90.27
17 18 19 20	+112.48 +115.37 +120.76 +129.65 +130.22	+118.92 +114.97 +114.07 +119.80 +127.18	+108.95 +109.00 +112.11 +109.16 +109.02	+111.72 +111.08 +117.37 +111.88 +111.10	+111.68 +110.31 +112.71 +111.40 +117.28		+118.64 +113.50 +116.24 +114.26 +115.87		+107.80 +106.42 +105.75 +105.75 +107.36 +107.36	+99.75 +99.03 +98.83	+101.46 +98.29 +97.46	+97.56 +96.38 +96.38 +100.53 +102.35
18 19	+115.37 +120.76 +129.65 +130.22 +132.99 +134.42 +134.84 +117.19	+114.97 +114.07 +119.80 +127.18 +122.93 +131.61 +127.66 +134.35	+109.00 +112.11 +109.16 +109.02 +109.32 +110.50 +112.32 +115.60	+111.08 +117.37 +111.88 +111.10 +110.73 +113.06 +112.57 +112.55	+110.31 +112.71 +111.40 +117.28 +123.49 +134.70 +113.77 +112.53	+110.04 +109.67 +110.87 +110.64	+118.64 +113.50 +116.24 +114.26 +115.87 +113.20 +113.01 +111.44 +109.99	+108.45 +106.30 +101.89 +100.44	+106.42 +105.75 +105.75 +107.36 +107.36 +105.12 +105.12 +104.64 +105.56	+99.75 +99.03 +98.83 +98.41 +98.71 +98.66 +97.97 +97.74 +100.51	+101.46 +98.29 +97.46 +106.51 +105.01 +110.04 +110.73	+97.56 +96.38 +96.38 +100.53 +102.35 +103.58 +109.97 +109.60 +104.25
18 19 20 21 22 23 24	+115.37 +120.76 +129.65 +130.22 +132.99 +134.42 +134.84 +117.19 +123.26 +131.24 +117.81 +111.14	+114.97 +114.07 +119.80 +127.18 +122.93 +131.61 +127.66 +134.35 +120.70 +127.78 +135.58 +136.08	+109.00 +112.11 +109.16 +109.02 +109.32 +110.50 +112.32 +115.60 +114.47 +114.49 +114.19 +113.06 +112.85 +113.15	+111.08 +117.37 +111.88 +111.10 +110.73 +113.06 +112.57 +112.55	+110 31 +112.71 +111.40 +117.28 +123.49 +134.70 +113.77 +112.53 +113.22 +111.93 +113.96 +113.96	+110.04 +109.67 +110.87 +110.64 +120.81 +115.60 +111.70 +110.57 +111.03	+118.64 +113.50 +116.24 +114.26 +115.87 +113.20 +113.01 +111.44 +109.99	+108.45 +106.30 +101.89 +100.44 +100.44 +106.74 +106.74 +106.74 +107.02	+106.42 +105.75 +105.75 +107.36 +107.36 +105.12 +105.12 +104.64 +105.56	+99.75 +99.03 +98.83 +98.41 +98.71 +98.66 +97.97 +97.74 +100.51	+101.46 +98.29 +97.46 +106.51 +105.01 +110.04 +110.73 +106.99 +105.12 +104.34 +102.79 +103.62 +99.96	+97.56 +96.38 +96.38 +100.53 +102.35 +103.58 +109.97 +109.60 +104.25

SITE NUMBER FROM LOCATION MAP.—45.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E3CBAA.

SITE ID (STATION NUMBER).—440430103160201.

OTHER IDENTIFIERS.—PE-64B and Sioux Park Mnls.

LOCATION.—Lat 44°04′27.2″, long 103°16′05.1″, in NE¹/4NE¹/4NW¹/4SW¹/4 sec. 3, T. 1 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 570 ft deep with 100 ft of 6-in. steel casing, 404 ft of 3-in. steel casing, and 570 ft of 1.25-in. steel casing; perforated casing from 413 to 570 ft.

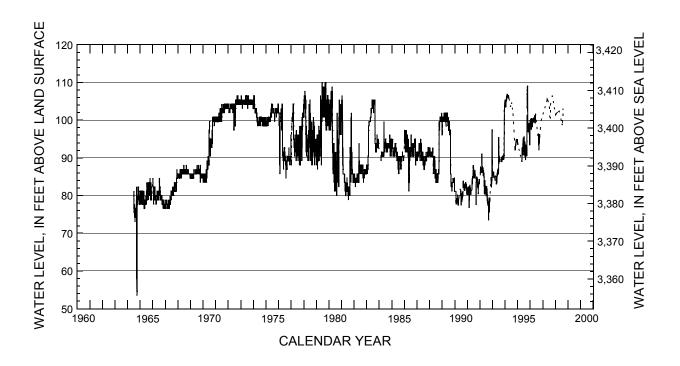
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval. Circular-chart pressure recorder prior to 1991.

DATUM.—Elevation of land-surface datum is 3,302 ft above sea level. Measuring point: Top of recorder platform, 2.7 ft above land-surface datum.

REMARKS.—Records poor because of numerous problems with well and instrumentation. Large errors are possible for numerous periods. Water levels may be affected by pumping of nearby wells. Data not corrected for antifreeze.

PERIOD OF RECORD.—July 1964 to September 1998.

EXTREMES.—Highest daily water level, 109.98 ft above land-surface datum, June 21, Sept. 16, 26, and Oct. 6, 1979; lowest daily water level, 53.45 ft above land-surface datum, Oct. 1, 1964. Extreme values published by Winter (1994) were based on values for every fifth day. Accuracy of extreme low value is questionable.



SITE NUMBER 45—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					ע	AILI LOWE	SI VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
_												
1		+93.43		+93.87					+92.63	+92.49	+90.99	+92.19
2		+93.20		+93.76					+93.62	+93.04	+91.15	+93.02
3		+93.13							+93.85	+94.08	+91.68	+93.25
4		+93.48						+88.91	+93.41	+93.62	+91.73	+93.50
5		+93.32						+89.56	+93.83	+93.32	+91.27	+92.93
_		22 22						00 56	00 51	00.00	01 45	01 00
6		+93.32						+90.76	+93.71	+93.27	+91.47	+91.93
7 8		+93.55						+90.37	+92.03	+94.36	+92.12	+91.98
9		+93.32						+92.23	+91.40	+93.04	+91.93	+92.49
		+93.48						+91.43 +91.31	+90.76	+94.63	+90.16 +91.54	+92.33 +92.67
10		+93.90						+91.31	+90.71	+95.67	+91.54	+92.67
11		+94.01						+91.20	+91.31	+93.94	+92.23	+92.90
12		+94.17						+92.30	+92.19	+92.79	+92.17	+91.66
13	+92.79	+94.13						+90.97	+93.62	+92.90	+92.33	+92.35
14	+92.79	+93.83						+91.04	+94.31	+91.40	+90.53	+91.31
15	+92.44	+93.90						+91.40	+94.66	+91.06	+90.76	+91.73
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,						. , , , , ,	. 5 1 . 0 0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.50.70	.,,,,,
16	+92.40	+94.75						+92.74	+95.35	+91.15	+90.97	+91.63
17	+92.05	+94.59	+94.75					+92.10	+95.19	+90.62	+92.12	+92.05
18	+92.28	+94.24	+94.86					+91.52	+94.82	+90.74	+91.31	+92.05
19	+92.10	+94.40	+94.98					+92.74	+94.06	+91.89	+89.44	+90.74
20	+91.98	+94.52	+94.98					+92.10	+95.05	+91.31	+91.47	+90.94
21	+92.05	+94.13	+94.98					+92.37	+94.75	+91.04	+91.91	+90.46
22	+92.17	+94.17	+94.75					+92.07	+94.01	+91.66	+92.33	+90.99
23	+92.28	+94.17	+94.75					+91.91	+93.25	+92.10	+92.05	+91.10
24	+92.21	+94.13	+94.91					+91.33	+93.09	+91.59	+92.53	+91.98
25	+92.17	+94.24	+94.75					+91.68	+92.88	+92.17	+92.77	+92.60
26	+92.21	+94.59	+94.75					+92.37	+93.23	+91.93	+91.63	+94.40
27	+93.09	+94.82	+94.29					+92.37	+93.87	+92.21	+91.52	+96.87
28	+92.97	+94.93	+94.29					+92.58	+93.18	+92.10	+91.89	+98.14
29	+92.44	+94.75	+94.86					+92.00	+92.53	+92.51	+92.10	+100.68
30	+92.86	+94.75	+93.87					+92.63	+91.61	+94.26	+92.12	+100.98
31	+92.97		+93.53					+92.81		+92.19	+91.15	
	01 00	00 10	00 50	00 56				00 01	00 51	00.00	00 44	00.46
LOW	+91.98	+93.13	+93.53	+93.76				+88.91	+90.71	+90.62	+89.44	+90.46
		WATER LEV	EI. IN FI	TET ABOVE	T.AND-SIIR	יוודעם אסביווי	MATER V	ZEAR OCTOR	RER 1995 T	O SEPTEMB	ER 1996	
		WATER LEV	EL, IN F	EET ABOVE					BER 1995 T	O SEPTEMB	ER 1996	
		WATER LEV	EL, IN FI	EET ABOVE			M, WATER Y ST VALUES		3ER 1995 T	O SEPTEMB	ER 1996	
DAY					D	AILY LOWE	ST VALUES					SEP
DAY	OCT	WATER LEV	EL, IN FI	EET ABOVE JAN					BER 1995 T JUN	O SEPTEMB	ER 1996 AUG	SEP
DAY 1					D	AILY LOWE	ST VALUES					SEP +96.32
	OCT	NOV	DEC	JAN	D FEB	MAR +100.03	ST VALUES	MAY	JUN	JUL	AUG	
1	OCT	NOV +97.98	DEC +98.99	JAN +99.36	FEB +98.05	AILY LOWE	ST VALUES APR +100.42	MAY +99.82	JUN +100.72	JUL	AUG	+96.32
1 2	OCT +103.40	NOV +97.98 +96.83	DEC +98.99 +98.37	JAN +99.36 +99.36	FEB +98.05 +97.47	MAR +100.03 +99.99	APR +100.42 +100.47	MAY +99.82 +99.76	JUN +100.72 +101.30	JUL 	AUG 	+96.32 +95.67
1 2 3	OCT +103.40 +103.17	NOV +97.98 +96.83 +97.06	DEC +98.99 +98.37 +97.93	JAN +99.36 +99.36 +99.59	FEB +98.05 +97.47 +97.75	MAR +100.03 +99.99 +99.99	APR +100.42 +100.47 +99.96	MAY +99.82 +99.76 +100.06	JUN +100.72 +101.30 +101.55	JUL 	AUG 	+96.32 +95.67 +93.55
1 2 3 4	OCT +103.40 +103.17 +105.64	NOV +97.98 +96.83 +97.06 +97.73	DEC +98.99 +98.37 +97.93 +98.44	JAN +99.36 +99.36 +99.59 +98.97	FEB +98.05 +97.47 +97.75 +99.09	MAR +100.03 +99.99 +99.99 +100.03	APR +100.42 +100.47 +99.96 +99.71	MAY +99.82 +99.76 +100.06 +100.08	JUN +100.72 +101.30 +101.55 +101.28	JUL 	AUG	+96.32 +95.67 +93.55 +93.32
1 2 3 4	OCT +103.40 +103.17 +105.64	NOV +97.98 +96.83 +97.06 +97.73	DEC +98.99 +98.37 +97.93 +98.44	JAN +99.36 +99.36 +99.59 +98.97	FEB +98.05 +97.47 +97.75 +99.09 +99.99	MAR +100.03 +99.99 +99.99 +100.03	APR +100.42 +100.47 +99.96 +99.71	MAY +99.82 +99.76 +100.06 +100.08	JUN +100.72 +101.30 +101.55 +101.28	JUL 	AUG	+96.32 +95.67 +93.55 +93.32
1 2 3 4 5	OCT +103.40 +103.17 +105.64 +105.82	NOV +97.98 +96.83 +97.06 +97.73 +98.07	DEC +98.99 +98.37 +97.93 +98.44 +97.77	JAN +99.36 +99.36 +99.59 +98.97 +98.90	FEB +98.05 +97.47 +97.75 +99.09 +99.99	MAR +100.03 +99.99 +99.99 +100.03 +99.55	APR +100.42 +100.47 +99.96 +99.71 +99.48	MAY +99.82 +99.76 +100.06 +100.08 +100.15	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL 	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70
1 2 3 4 5	OCT +103.40 +103.17 +105.64 +105.82 +106.52	NOV +97.98 +96.83 +97.06 +97.73 +98.07	DEC +98.99 +98.37 +97.93 +98.44 +97.77	JAN +99.36 +99.36 +99.59 +98.97 +98.90	FEB +98.05 +97.47 +97.75 +99.09 +99.99	MAR +100.03 +99.99 +90.99 +100.03 +99.55 +99.16 +98.81 +98.16	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76	MAY +99.82 +99.76 +100.06 +100.08 +100.15	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL 	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56
1 2 3 4 5 6 7 8	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94	PEB +98.05 +97.47 +97.75 +99.09 +90.38 +100.38 +100.15 +100.15	MAR +100.03 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +101.00 +101.00	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17
1 2 3 4 5	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.38 +100.15	MAR +100.03 +99.99 +90.99 +100.03 +99.55 +99.16 +98.81 +98.16	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63	MAY +99.82 +99.76 +100.06 +100.08 +100.72 +101.00 +100.89	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56
1 2 3 4 5 6 7 8 9	OCT +103.40 +103.17 +105.64 +106.52 +106.52 +108.01 +107.78 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37 +97.33	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12	PEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.38 +100.15 +100.33 +99.89	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.16 +98.16 +99.43 +100.08	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56 +94.17 +92.86
1 2 3 4 5 6 7 8 9 10	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37 +97.33	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.43 +100.12 +99.94 +100.12	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.38 +100.15 +100.33 +99.89	MAR +100.03 +99.99 +100.03 +99.55 +99.16 +98.81 +99.43 +100.08 +99.99	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.06 +100.17 +100.29	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05
1 2 3 4 5 6 7 8 9 10	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37 +97.33	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.03	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.15 +100.33 +99.89 +99.66 +99.66	MAR +100.03 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13
1 2 3 4 5 6 7 8 9 10	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +96.18 +96.29 +97.54 +97.68 +98.76	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.03 +100.15	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.38 +100.15 +100.33 +99.89 +99.66 +99.66 +100.01	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.97	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31 +99.57	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.83 +107.71	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.63 +97.33 +96.80 +98.33 +98.05 +98.05	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.66	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.03 +100.15 +99.80	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +99.66 +100.01 +99.87	AILY LOWE MAR +100.03 +99.99 +90.03 +99.55 +99.16 +98.81 +98.81 +99.43 +100.08 +99.99 +99.87 +99.87	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.46 +99.50 +99.50	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.06 +100.17 +100.29 +100.70 +100.82 +100.82	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10
1 2 3 4 5 6 7 8 9 10	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +96.18 +96.29 +97.54 +97.68 +98.76	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.03 +100.15	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +99.66 +100.01 +99.87	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.97	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.46 +99.50 +99.50	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +103.40 +103.17 +105.64 +106.52 +106.52 +108.01 +107.78 +108.01 +107.78 +108.01 +108.25 +108.82 +108.82 +108.92	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05 +98.05 +98.00 +98.42	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.63	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.03 +100.03 +100.03 +99.99	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.15 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +109.48 +99.57 +99.57	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +100.70 +100.32 +101.37	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.78 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.83 +107.71 +108.59 +109.05	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.63 +97.33 +96.80 +98.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.03 +100.03 +99.99 +100.36	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25	MAR +100.03 +99.99 +90.03 +99.55 +99.16 +98.81 +99.43 +100.08 +99.87 +99.87 +99.87 +99.87 +99.88 +100.06 +100.26	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.46 -99.57 +99.71 +99.78	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +100.70 +100.82 +101.37	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09 +97.75	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.76 +98.67 +98.63 +98.63	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.38 +100.15 +100.33 +99.89 +99.66 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82	MAR +100.03 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.94 +100.06 +100.26 +100.26 +100.15	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.71 +99.50 +99.57 +99.71 +99.78 +100.12	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.25 +108.25 +108.31 +107.71 +108.59 +109.05 +108.50 +108.50	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.35 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.63 +98.92 +98.93	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.27	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.33 +100.15 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06 +100.15 +99.85	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31 +99.57 +99.57 +99.78 +100.12 +99.79	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +100.96 +100.61	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +94.17 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT +103.40 +103.17 +105.64 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.82 +108.82 +108.82 +108.59 +109.05 +109.05 +108.50 +109.26	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.63 +97.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91 +98.05	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63 +98.92 +98.56 +93.37 +97.86	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.03 +100.03 +100.05 +99.80 +99.99 +100.36 +98.92 +99.27	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.66 +100.01 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 +100.33	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.81 +99.43 +100.08 +99.99 +99.87 +99.87 +99.94 +99.82 +100.06 +100.26 +100.15 +99.85	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.46 +99.50 +99.57 +99.71 +99.78 +100.12 +99.94 +100.12	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.69 +100.17 +100.29 +100.70 +100.82 +101.14 +101.37 +100.96 +100.61	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16 +94.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.25 +108.25 +108.31 +107.71 +108.59 +109.05 +108.50 +108.50	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.35 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.63 +98.92 +98.93	JAN +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.27	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.33 +100.15 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06 +100.15 +99.85	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31 +99.57 +99.57 +99.78 +100.12 +99.79	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +100.96 +100.61	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +94.17 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	+103.40 +103.17 +105.64 +106.52 +106.52 +108.01 +107.78 +108.01 +107.71 +108.25 +108.13 +107.71 +108.59 +109.05 +108.50 +101.14	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91 +98.05 +97.38	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.63 +98.63 +98.92 +98.92 +97.86 +98.92 +97.86	JAN +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.03 +100.5 +99.80 +99.99 +100.36 +98.92 +99.97 +99.62	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.15 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 +100.33 +100.31	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06 +100.26 +100.26 +100.15 +99.69 +99.50	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31 +99.57 +99.46 +99.57 +99.71 +99.78 +100.12 +99.76	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +101.37 +101.37	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +94.163 +95.10 +95.90 +96.25 +95.16 +94.93 +95.51
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59 +109.05 +	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91 +98.05 +97.91 +98.05 +97.38	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63 +98.92 +98.56 +93.37 +97.86 +98.21	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.03 +100.05 +99.80 +99.99 +100.36 +98.92 +99.27 +99.62 +99.94	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.66 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 +100.33 +100.15	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.87 +99.87 +99.87 +99.87 +99.87 +99.87 +99.89	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.46 +99.57 +99.71 +99.76 +99.76 +99.76 +99.76 +99.71 +99.78 +100.12 +99.76 +99.87	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +100.70 +100.82 +101.14 +101.37 +100.96 +100.61 +100.61 +100.24 +99.73	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +95.10 +95.90 +96.25 +95.97 +95.16 +94.40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.05 +109.06	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.63 +98.33 +96.80 +98.33 +98.05 +98.09 +97.75 +97.91 +98.05 +97.91 +98.05 +97.38	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.76 +98.63 +98.67 +98.63 +98.92 +98.56 +93.37 +97.86 +98.21 +98.16 +98.28	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.27 +99.27 +99.62 +99.94 +99.59	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.15 +100.33 +99.89 +99.66 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 -100.33 +100.31	## AILY LOWE MAR	**PR VALUES** **APR** **100.42** **+100.47** *+99.96** *+99.71** *+99.48** *+99.76** *+100.17** *+100.31** *+99.57** *+99.46** *+99.50** *+99.57** *+99.71** *+99.71** *+99.78** *+100.12** *+99.94** *+100.03** *+99.76** *+99.94** *+100.03** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.76** *+99.57** *+99.57**	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +100.70 +100.82 +101.37 +101.37 +101.37 +100.96 +100.61 +100.61 +100.61 +100.24	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16 +94.93 +95.51
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.25 +108.25 +108.25 +108.13 +107.71 +108.59 +109.05 +108.50 +101.14 +100.91 +99.66 +98.97	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.05 +98.05 +98.00 +98.42 +98.05 +97.91 +98.05 +97.91 +98.05 +97.91 +97.98 +97.75	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +96.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.63 +98.92 +98.92 +98.92 +98.96 +98.91 +98.92 +98.86	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.99 +100.36 +98.92 +99.99 +100.36 +98.92 +99.76	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.38 +100.15 +100.33 +99.66 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 +100.33 +100.31 +100.31	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06 +100.15 +99.85 +99.69 +99.50 +99.89 +99.89 +100.06	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.31 +99.57 +99.57 +99.78 +100.03 +99.78 +100.03 +99.76 +99.78 +100.03 +99.76 +99.77 +99.78 +100.03 +99.76 +99.87 +99.87 +99.87 +99.87 +99.57	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +101.37 +101.37 +100.66 +100.24 +99.73 +99.73 +99.16	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +94.63 +95.10 +95.90 +96.25 +95.16 +94.93 +95.51
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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	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59 +109.05 +109.05 +109.05 +109.05 +101.14 +100.91 +99.66 +98.97 +98.58 +98.65	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +96.80 +98.33 +97.75 +98.05 +97.75 +97.91 +98.05 +97.98 +97.75 +97.98 +97.98 +97.75 +97.98 +97.98 +97.98 +97.98 +97.98 +97.98 +97.98	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63 +98.92 +97.86 +98.16 +98.21 +98.16 +98.21 +98.16 +98.21 +98.28 +98.56 +99.20 +99.25	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +99.59	PEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +99.66 +100.01 +99.87 +99.82 +99.82 +100.10 +100.33 +100.15 +100.15 +100.15 +100.15 +100.15 +100.15	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.87 +99.94 +99.82 +100.06 +100.15 +99.89 +99.50 +99.89 +99.50 +99.89 +99.89	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.71 +99.46 +99.50 +99.57 +99.71 +99.78 +100.12 +99.76 +99.76 +99.77 +99.71	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.06 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +101.37 +101.49 +100.61 +100.61 +100.61 +100.24 +99.73 +99.43 +99.43 +99.16 +99.25	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16 +94.93 +95.51
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	+103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.25 +108.25 +108.31 +107.71 +108.59 +109.05 +109.0	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.05 +98.05 +98.00 +98.42 +98.05 +97.91 +98.05 +97.38 +97.91 +98.05 +97.38	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +96.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.63 +98.92 +98.92 +98.56 +98.21 +98.16 +98.21 +98.16 +98.21 +98.16 +98.21	JAN +99.36 +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.27 +99.62 +99.59 +99.76 +99.82 +99.41	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +100.01 +99.87 +99.82 +99.82 +100.10 +100.33 +100.31 +100.15 +100.15 +199.82 +99.82 +99.82	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.94 +99.82 +100.06 +100.15 +99.89 +99.89 +99.50 +99.89 +99.50 +99.89 +99.59	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.57 +99.71 +99.88 +100.12 +99.76 +99.76 +99.76 +99.71 +99.78 +100.12 +99.76 +99.76 +99.76 +99.77 +99.78 +100.15 +99.78 +99.50	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.70 +100.29 +101.37 +101	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16 +94.93 +95.51 +94.93 +95.10 +94.93 +94.93
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 25 26 27 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59 +109.05 +101.14 +100.91 +99.66 +98.97 +98.58 +98.65	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.63 +97.63 +98.33 +96.80 +98.33 +96.80 +98.33 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91 +98.05 +97.91 +98.05 +97.91 +98.05 +97.38	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63 +98.92 +98.56 +98.37 +97.86 +98.21 +98.16 +98.21 +98.28 +98.21 +98.28 +98.21	JAN +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.27 +99.62 +99.41 +99.59 +99.76 +99.80 +99.99	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.38 +100.15 +100.33 +99.66 +100.01 +99.87 +99.25 +99.48 +99.25 +100.15 +100.33 +100.31 +100.31 +100.15 +100.55 +99.48 +99.59 +99.48 +99.43 +99.13	## AILY LOWE MAR	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.63 +100.17 +100.63 +100.17 +100.03 +99.57 +99.71 +99.78 +100.03 +99.77 +99.78 +100.03 +99.77 +99.78 +100.15 +99.78 +99.57	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.61 +100.17 +100.29 +100.70 +100.37 +101.37 +101.37 +100.66 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61 +100.61	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL.	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +93.78 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +94.63 +95.10 +95.90 +96.25 +95.97 +95.16 +94.93 +95.51 +94.40 +94.93 +94.59 +94.59 +94.59 +94.59 +94.59 +94.59 +94.75
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +107.71 +108.25 +108.31 +107.71 +108.59 +109.05 +109.0	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.05 +98.00 +98.42 +98.09 +97.75 +97.91 +98.05 +97.38 +97.49 +97.98 +97.75 +98.16 +98.76 +98.44 +97.33 +97.17	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.82 +97.68 +98.67 +98.67 +98.63 +98.92 +98.56 +93.37 +97.86 +98.21 +98.16 +98.21 +99.20 +99.25 +99.20 +99.43	JAN +99.36 +99.59 +98.97 +98.90 +99.25 +99.43 +100.12 +99.94 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +98.92 +99.99 +100.36 +98.92 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.27 +99.39	FEB +98.05 +97.47 +97.75 +99.09 +100.38 +100.38 +100.15 +100.33 +99.66 +100.01 +99.87 +99.25 +99.48 +99.25 +100.15 +100.33 +100.31 +100.31 +100.15 +100.55 +99.48 +99.59 +99.48 +99.43 +99.13	MAR +100.03 +99.99 +99.99 +100.03 +99.55 +99.16 +98.81 +98.16 +99.43 +100.08 +99.99 +99.87 +99.89 +99.89 +99.89 +99.50 +99.89 +100.06 +99.36 +99.59	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.57 +99.71 +99.88 +100.12 +99.76 +99.76 +99.77 +99.71 +99.78 +100.12 +99.76 +99.76 +99.77 +99.77 +99.77 +99.77 +99.77 +99.78 +100.15 +99.57	MAY +99.82 +99.76 +100.06 +100.08 +100.15 +100.72 +101.00 +100.89 +100.17 +100.29 +101.37 +101.37 +101.37 +101.37 +101.37 +101.37 +101.37 +101.37 +109.61 +100.66 +100.24 +99.73 +99.43 +99.16 +99.25 +99.36 +99.82 +99.87 +99.99	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +94.63 +95.10 +95.90 +96.25 +95.16 +94.93 +95.51 +94.93 +95.51
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +103.40 +103.17 +105.64 +105.82 +106.52 +106.63 +108.01 +107.78 +108.01 +108.25 +108.82 +108.13 +107.71 +108.59 +109.05 +108.50 +101.14 +100.91 +99.66 +98.97 +98.58 +98.65 +98.92 +98.72 +98.00 +98.28	NOV +97.98 +96.83 +97.06 +97.73 +98.07 +98.14 +97.66 +98.37 +97.33 +96.80 +98.33 +96.80 +98.33 +97.75 +98.05 +97.75 +97.91 +98.05 +97.78 +97.98 +97.78 +97.98 +97.79 +98.16 +98.76	DEC +98.99 +98.37 +97.93 +98.44 +97.77 +97.84 +97.29 +96.18 +96.29 +97.54 +97.68 +98.67 +98.63 +98.92 +97.86 +98.16 +98.21 +98.16 +98.21 +98.16 +98.21 +98.21 +99.20 +99.25 +99.20 +99.33	JAN +99.36 +99.39 +98.97 +98.97 +98.99 +99.25 +99.43 +100.12 +100.03 +100.15 +99.80 +99.99 +100.36 +100.36	FEB +98.05 +97.47 +97.75 +99.09 +99.99 +100.38 +100.33 +100.33 +99.89 +99.66 +100.01 +99.87 +99.25 +99.48 +99.82 +100.10 +100.33 +100.15 +100.38 +100.	## AILY LOWE MAR	APR +100.42 +100.47 +99.96 +99.71 +99.48 +99.76 +100.17 +100.31 +99.57 +99.57 +99.71 +99.88 +100.12 +99.76 +99.76 +99.77 +99.71 +99.78 +100.12 +99.76 +99.76 +99.77 +99.77 +99.77 +99.77 +99.77 +99.78 +100.15 +99.57	MAY +99.82 +99.76 +100.06 +100.15 +100.72 +101.00 +100.89 +100.70 +100.37 +100.37 +100.37 +100.37 +100.37 +100.40 +100.17 +100.29 +101.14 +101.37 +101	JUN +100.72 +101.30 +101.55 +101.28 +101.67	JUL	AUG	+96.32 +95.67 +93.55 +93.32 +93.48 +94.70 +95.56 +94.17 +92.86 +92.05 +93.13 +95.10 +95.90 +96.25 +95.97 +96.25 +94.93 +95.16 +94.93 +95.16 +94.93 +95.51 +94.98 +94.59 +94.98 +94.59 +94.40 +94.13 +94.75 +95.67 +95.67 +95.67 +96.25

LOW +98.00 +96.80 +93.37 +98.51 +97.47 +98.16 +99.39 +99.16 +100.72

--- +94.17 +92.05

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		WATER LEVEL	, IN FE	E.I. ABOAE			I, WATER ST VALUES		BER 1996	TO SEPTEM	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2									e+105.1			
3												
4 5												
6								e+105.6				
7 8												
9												
10												
11											e+100.5	
12												
13											e+104.2	
14 15										e+103.3		
13												
16												
17 18										e+100.9		
19		e+100.1										
20												
21												
22												
23												
24												
25												
26												
27 28												
29												
30							e+105.1					
31												
LOW		+100.10					+105.10	+105.60	+105.10	+100.90	+100.50	
		WATER LEVEL			DA	LILY LOWE	ST VALUES	3				
DAY	OCT	WATER LEVEL	, IN FE	ET ABOVE JAN					BER 1997 JUN	TO SEPTEMI JUL	BER 1998 AUG	SEP
1	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	ST VALUES APR	MAY	JUN	JUL	AUG	
1 2	OCT e+106.5	NOV 	DEC	JAN 	DA FEB 	MAR	ST VALUES APR	MAY 	JUN 	JUL 	AUG	
1	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	ST VALUES APR	MAY	JUN	JUL	AUG	
1 2 3	OCT e+106.5 	NOV 	DEC	JAN 	DA FEB 	MAR	ST VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5	OCT e+106.5 	NOV	DEC	JAN 	DA FEB 	MAR	APR	MAY 	JUN 	JUL 	AUG	
1 2 3 4	OCT e+106.5 	NOV	DEC	JAN 	DA FEB 	MAR	APR	MAY	JUN 	JUL 	AUG	
1 2 3 4 5 6 7 8	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT e+106.5	NOV	DEC	JAN	PEB e+101.9	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9 	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9 	MAR	APR	MAY	JUN	JUL.	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10	OCT e+106.5	NOV	DEC	JAN	PEB e+101.9	MAR	APR	MAY	JUN	JUL	AUG e+103.1	======================================
1 2 3 4 5 6 7 8 9 10	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9 	MAR	APR	MAY	JUN	JUL.	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL	AUG e+103.1	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9	MAR	APR	MAY	JUN e+100.1	JUL	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
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	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9	MAR	APR	MAY	JUN	JUL +98.7	AUG e+103.1	
1 2 3 4 5 6 7 8 9 10 11 122 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	JUN e+100.1	JUL +98.7	AUG e+103.1	
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	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	### Bank	JUL +98.7	AUG e+103.1	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9	MAR	APR	MAY	### DUN	JUL +98.7	aug	
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	OCT e+106.5	NOV	DEC	JAN	DA FEB	MAR	APR	MAY	### Bank	JUL +98.7	AUG e+103.1	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT e+106.5	NOV	DEC	JAN	DA FEB e+101.9	MAR	APR	MAY	### DUN	JUL +98.7 +99.60	AUG e+103.1	

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SITE NUMBER FROM LOCATION MAP.—46.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E3BBCC.

SITE ID (STATION NUMBER).—440446103161701.

OTHER IDENTIFIERS.—PE-89E and Lime Creek.

LOCATION.—Lat 44°04′44.6″, long 103°16′18.6″, in SW¹/4SW¹/4NW¹/4NW¹/4 sec. 3, T. 1 N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,390 ft deep with 1,040 ft of 6 3/8-in. steel casing; open hole from 1,035 to 1,391 ft.

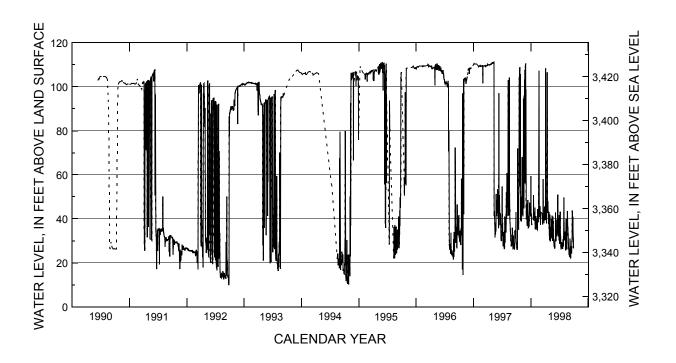
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 15-minute interval. Unpublished air temperature and barometric pressure also recorded at this site.

DATUM.—Elevation of land-surface datum is 3,315.4 ft above sea level. Measuring point: Base of gage 4.3 ft above land-surface datum.

REMARKS.—Records good. Water levels are affected by pumping of nearby well.

PERIOD OF RECORD.—June 1990 to September 1998.

EXTREMES.—Highest daily water level, 111.16 ft above land-surface datum, May 11, 1997; lowest daily water level, 10.14 ft above land-surface datum, Oct. 28, 1994.



WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990 DAILY LOWEST VALUES

					I	DAILY LOWE	EST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											e+104.6	
1 2											e+104.6	
3												
4												
5												e+29.4
6												
7												
8 9											e+104.2	
10												
11												
12												e+27.1
13									e+102.8			
14 15											e+103.2	
1.5												
16												
17 18												
19									e+103.7			e+26.2
20												
21									e+103.4		e+90.3	
22												
23												
24												
25										e+104.6		
26												e+26.4
27 28									e+104.6			
29											e+26.6	
30												
31											e+26.2	
LOW									+102.80	+104.60	+26.20	+26.20
		WATER LE	VEL, IN F	EET ABOVE		FACE DATU	M, WATER S		BER 1990	TO SEPTEM	IBER 1991	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
					FEB	MAR	APR	MAY				
1	e+26.17				FEB	MAR	APR +102.02	MAY +37.89	+105.92	+35.35	+50.00	+30.71
					FEB	MAR	APR	MAY				
1 2 3 4	e+26.17 	 	 	 	FEB	MAR 	APR +102.02 +102.14 +102.02 +102.02	MAY +37.89 +36.34 +43.70 +80.98	+105.92 +106.15 +106.32 +103.20	+35.35 +35.19 +34.94 +35.17	+50.00 +41.07 +36.37 +35.79	+30.71 +30.35 +30.46 +30.53
1 2 3	e+26.17 	 			FEB	MAR 	APR +102.02 +102.14 +102.02	MAY +37.89 +36.34 +43.70	+105.92 +106.15 +106.32	+35.35 +35.19 +34.94	+50.00 +41.07 +36.37	+30.71 +30.35 +30.46
1 2 3 4	e+26.17 	 	 	 	FEB	MAR 	APR +102.02 +102.14 +102.02 +102.02	MAY +37.89 +36.34 +43.70 +80.98	+105.92 +106.15 +106.32 +103.20	+35.35 +35.19 +34.94 +35.17	+50.00 +41.07 +36.37 +35.79	+30.71 +30.35 +30.46 +30.53
1 2 3 4 5	e+26.17 	 e+102.3	e+101.6	==== ==== ====	FEB e+101.1	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88
1 2 3 4 5 6 7 8	e+26.17	e+102.3	e+101.6	 	FEB	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.24	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.14	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41
1 2 3 4 5 6 7 8 9	e+26.17	 e+102.3	e+101.6	==== ==== ====	FEB e+101.1	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93	+105.92 +106.15 +106.32 +103.20 +102.37 +107.01 +107.04 +107.42	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.51 +35.14 +35.17	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.71 +31.41 +31.78
1 2 3 4 5 6 7 8 9	e+26.17 e+26.17	e+102.3	e+101.6	 e+101.1	FEB	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.24 +107.42	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.14 +35.17 +34.91	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78
1 2 3 4 5 6 7 8 9 10	e+26.17 e+26.17	e+102.3	e+101.6	e+101.1	FEB	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.24 +107.42 +107.49	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +32.15	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89
1 2 3 4 5 6 7 8 9	e+26.17 e+26.17	e+102.3	e+101.6	e+101.1	FEB	MAR e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85	+105.92 +106.15 +106.32 +103.20 +102.37 +107.01 +107.24 +107.42 +107.42 +107.63 +107.70	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +32.15	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78
1 2 3 4 5 6 7 8 9 10 11 12 13 14	e+26.17	e+102.3	e+101.6	e+101.1	FEB	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89
1 2 3 4 5 6 7 8 9 10	e+26.17 e+26.17	e+102.3	e+101.6	e+101.1	FEB e+101.1 e+101.4	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76	+105.92 +106.15 +106.32 +103.20 +103.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.51 +35.17 +34.91 +19.25 +35.05 +35.05	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14	e+26.17 e+26.17	e+102.3 e+102.3 e+102.8	e+101.6	e+101.1	FEB e+101.1 e+101.4	e+100.6	APR +102.02 +102.14 +102.02 +106.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87	+50.00 +41.07 +36.37 +35.79 +35.79 +33.23 +32.49 +31.89 +31.89 +31.89 +31.52 +30.71	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.48 +27.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e+26.17 e+26.17	e+102.3 e+102.3 e+102.8	e+101.6	e+101.1	FEB e+101.1 e+101.4	e+100.6	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +32.65 +34.36	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +32.49 +32.15 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	e+26.17 e+26.17	e+102.3 e+102.3 e+102.8	e+101.6	e+101.1	e+101.1 e+101.4	e+100.6	+102.02 +102.14 +102.02 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +100.34 +103.43 +103.49 +104.22	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.60 +93.53 +95.01 +96.42 +44.56 +35.26	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +34.84 +34.36 +34.36 +34.36	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +30.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	e+26.17 e+26.17	e+102.3 e+102.8	e+101.6	e+101.1	e+101.1 e+101.4	e+100.6	+102.02 +102.14 +102.02 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +32.65 +34.36	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	e+26.17 e+26.17 e+26.17	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1	e+101.1 e+101.6	e+101.1 e+101.4 e+101.5	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.43 +103.89 +104.22 +104.56 +39.16	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +32.65 +34.36 +34.36 +34.36 +34.37 +34.75	+50.00 +41.07 +36.37 +35.79 +35.79 +33.23 +32.49 +31.89 +31.89 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +32.08 +32.45 +31.91
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	e+26.17 e+26.17 e+26.17 e+99.30	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1	e+101.1 e+101.6	e+101.1 e+101.4 e+101.5	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.21	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.26 +39.16 +32.03	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.42 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +34.87 +34.36 +34.36 +34.36 +34.75 +34.75 +34.61	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +32.15 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +32.95 +31.91 +32.54
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	e+26.17 e+26.17 e+26.17 e+99.30	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1	e+101.1 e+101.6	e+101.1 e+101.4 e+101.5	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.63 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.14 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +35.40 +34.87 +34.87 +34.61 +34.48	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.23 +32.49 +32.15 +31.89 +31.89 +31.86 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.92 +30.92	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.95 +26.52 +22.82 +32.35 +30.55 +31.91 +32.45 +31.91
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5	e+100.6	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.35	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.42 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +34.87 +34.36 +34.36 +34.36 +34.75 +34.75 +34.61	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +32.95 +31.91 +32.54
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	e+26.17 e+26.17 e+26.17	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5	e+100.6 e+98.84	+102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.35	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10	+35.35 +35.19 +34.94 +35.17 +35.08 +35.14 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +34.87 +34.36 +34.36 +34.36 +34.36 +34.48 +34.75 +34.48 +34.75	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +30.55 +31.91 +32.54 +31.91
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5	e+100.6	APR +102.02 +102.14 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.21 +102.30 +102.35 +35.01 +31.59	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +100.69 +104.19	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.42 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10 +25.66 +30.05	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +34.36 +34.36 +34.36 +34.36 +34.48 +34.66 +34.54 +34.98	+50.00 +41.07 +36.37 +35.79 +35.79 +35.79 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97 +30.97 +30.97 +30.97 +30.97 +30.97 +30.44	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +30.55 +31.91 +32.64 +3
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 25 26 27	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.3 e+102.8	e+101.6 e+100.9 e+101.1 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5	e+100.6	APR +102.02 +102.14 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.21 +102.35 +35.01 +31.59 +97.02 +102.23	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +104.19 +104.19	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +34.13 +33.02 +32.63 +25.62 +17.10 +25.	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.52 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +32.65 +34.84 +34.75 +34.75 +34.75 +34.75 +34.75 +34.75 +34.75 +34.75 +34.75	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +3	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +27.48 +27.48 +27.26.52 +22.82 +32.35 +30.55 +32.08 +32.45 +31.91 +32.45 +31.61 +31.64 +31.61 +31.61
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.8 e+101.6	e+101.6 e+100.9 e+101.1 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5 e+100.9	e+100.6 e+100.6 e+98.84 e+101.8 e+101.8 e+101.8	APR +102.02 +102.14 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +102.51 +102.30 +102.35 +35.01 +31.59 +97.02 +102.23 +102.23 +102.67	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +100.69 +104.19 +104.86 +105.12 +104.86 +105.12	+105.92 +106.15 +106.32 +102.37 +103.20 +102.37 +107.01 +107.42 +107.42 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10 +25.66 +30.05 +31.89 +31.89 +34.68	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +34.36 +34.36 +34.36 +34.36 +34.36 +34.36 +34.54 +34.75 +34.75	+50.00 +41.07 +36.37 +35.79 +35.79 +35.79 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97 +3	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +30.55 +31.91 +32.64 +31.91 +32.64 +31.61 +31.64 +31.64
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.8 e+102.8 e+101.6	e+101.6 e+100.9 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5 e+100.9	e+100.6 e+18.84 e+101.8 e+101.8 e+101.72	APR +102.02 +102.14 +102.02 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.35 +35.01 +31.59 +97.02 +102.35 +97.02 +102.33 +102.23 +102.33 +102.67 +102.85	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +100.69 +104.19 +104.86 +105.12 +105.28	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.49 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10 +25.66 +30.05 +31.89 +34.68 +34.84	+35.35 +35.19 +34.94 +35.17 +35.08 +35.14 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +34.87 +34.36 +36.36 +3	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97 +30.97 +30.92 +30.97 +30.92 +30.74 +30.44 +30.09 +30.23 +29.91 +30.23 +29.91 +30.11	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +32.45 +31.91 +32.54 +31.61 +31.64 +31.64 +31.55 +31.55 +31.38
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 27 28 29 29 30 30 30 30 30 30 30 30 30 30 30 30 30	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6	e+102.8 e+101.6	e+101.6 e+100.9 e+101.1	e+101.6 e+101.4	e+101.1 e+101.4 e+103.5 e+100.9	e+100.6 e+18.84 e+101.8 e+101.8 e+101.72	APR +102.02 +102.14 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.21 +102.30 +102.35 +35.01 +31.59 +97.02 +102.23 +102.67 +102.23 +102.67 +102.85 +102.85	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.85 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +100.69 +104.19 +104.86 +105.12 +105.28	+105.92 +106.15 +106.32 +102.37 +103.20 +102.37 +107.01 +107.42 +107.42 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10 +25.66 +30.05 +31.89 +31.89 +34.68	+35.35 +35.19 +34.94 +35.17 +35.08 +35.51 +35.24 +35.17 +34.91 +19.25 +35.05 +35.17 +34.87 +35.40 +34.36 +34.36 +34.36 +34.36 +34.36 +34.36 +34.54 +34.75 +34.75	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +30.97 +30.97 +30.92 +30.97 +30.92 +30.74 +30.44 +30.09 +30.23 +29.91 +30.23 +29.91 +30.11	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +30.55 +31.91 +32.64 +31.91 +32.64 +31.61 +31.64 +31.64
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 27 28 29 29 30 30 30 30 30 30 30 30 30 30 30 30 30	e+26.17 e+26.17 e+26.17 e+99.30 e+101.6 e+102.3	e+102.8 e+102.8 e+101.6	e+101.6 e+100.9 e+101.1 e+101.1	e+101.6 e+101.6 e+101.6 e+101.6	e+101.1 e+101.4 e+103.5 e+100.9	e+100.6 e+100.6 e+98.84 e+98.84 e+101.8 e+101.8 e+101.8 e+101.72 +101.74	APR +102.02 +102.14 +102.02 +36.00 +29.12 +26.93 +25.48 +26.26 +53.88 +97.62 +100.92 +101.38 +101.52 +101.66 +100.50 +98.38 +71.18 +99.79 +101.86 +102.21 +102.30 +102.35 +35.01 +31.59 +97.02 +102.23 +102.67 +102.23 +102.67 +102.85 +102.85	MAY +37.89 +36.34 +43.70 +80.98 +102.44 +102.95 +100.18 +99.19 +98.93 +102.44 +37.96 +30.76 +100.27 +102.76 +103.43 +103.89 +104.22 +104.56 +39.16 +32.03 +30.35 +30.18 +100.69 +104.19 +104.86 +105.12 +105.28 +105.24 +105.24 +105.24	+105.92 +106.15 +106.32 +103.20 +102.37 +103.94 +107.01 +107.42 +107.42 +107.63 +107.70 +50.60 +93.53 +95.01 +96.42 +44.56 +35.26 +34.13 +33.02 +32.63 +25.62 +17.10 +31.89 +34.88 +34.68 +34.68 +34.68 +34.68 +34.68 +34.68 +34.68 +34.68	+35.35 +35.19 +34.94 +35.17 +35.08 +35.14 +35.17 +34.91 +19.25 +35.05 +35.07 +34.87 +34.87 +34.36 +34.34 +34.75 +34.36 +34.34 +34.75 +34.36 +34.54 +34.52 +34.75 +3	+50.00 +41.07 +36.37 +35.79 +35.56 +34.84 +33.74 +33.23 +32.49 +31.89 +31.89 +31.66 +31.52 +30.71 +27.28 +29.47 +30.83 +30.92 +3	+30.71 +30.35 +30.46 +30.53 +30.55 +30.71 +30.88 +31.41 +31.78 +31.89 +24.95 +27.48 +27.90 +26.52 +22.82 +32.35 +30.55 +32.45 +31.91 +32.08 +31.71 +31.68 +31.64 +31.61 +31.57 +31.55 +31.38 +31.18

SITE NUMBER 46—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+31.52 +31.41 +31.20 +29.33 +24.81	+28.82 +28.75 +28.80 +28.85 +28.52	+24.56 +28.13 +27.85 +26.65 +26.42	+26.42 +26.45 +26.29 +26.17 +26.10	+25.27 +25.29 +25.39 +25.36 +25.75	+25.64	e+100.82 e+42.34	+29.35 +28.89 +28.15 +24.88 +24.44	+20.26 +87.81 +35.47 +23.61 +60.87	+93.33 +27.21 +21.12 +84.33 +93.12	+15.70 +13.69 +13.30 +13.32 +14.38	+13.67 +13.48 +13.23 +12.84 +13.02
6 7 8 9 10	+23.66 +27.09 +28.52 +30.07 +29.91	+28.41 +28.50 +27.30 +27.97 +25.66	+25.80 +27.05 +26.89 +27.67 +27.25	+26.31 +26.08 +26.08 +26.01 +25.94	+25.25 +24.65 +24.62 +24.72 +24.81	e+20.63		+27.72 +31.27 +29.72 +25.85 +26.38	+91.97 +93.42 +93.74 +93.81 +29.40	+33.37 +19.96 +17.52 +59.30 +22.59	+14.64 +13.25 +13.07 +13.80 +15.03	+12.97 +29.26 +19.62 +18.86 +15.03
11 12 13 14 15	+29.82 +30.18 +30.00 +29.93 +28.15	+25.80 +27.83 +28.73 +25.45 +25.43	+27.23 +27.16 +26.42 +25.99 +26.01	+26.05 +25.75 +25.80 +25.52 +25.62	+24.88 +25.11 +25.09 +24.56 +24.53	e+48.46	e+23.79 e+22.57 e+17.84		+21.99 +20.38 +19.55 +19.60 +21.76	+16.53 +70.58 +91.76 +29.15 +21.60	+14.87 +13.92 +14.20 +14.45 +14.50	+14.13 +49.96 +26.03 +20.89 +20.56
16 17 18 19 20	+29.58 +29.24 +29.15 +29.10 +29.05	+20.52 +24.65 +17.15 +25.85 +25.62	+26.22 +26.29 +26.49 +25.85 +25.62	+25.62 +25.57 +25.55 +25.34 +25.32	+24.86 +24.88 +24.86	e+100.71 e+99.92 e+100.11 e+99.03 e+97.04	e+96.07 e+99.92 e+101.38	+27.39 +24.99 +24.16 +24.46 +23.03	+93.65 +94.43 +94.36 +88.78 +94.57	+20.17 +29.42 +19.89 +18.19 +71.96	+13.46 +14.66 +16.13 +15.44 +14.87	+19.57 +20.03 +13.85 +13.60 +13.74
21 22 23 24 25	+29.26 +29.28 +29.26 +29.19 +29.40	+24.14 +20.49 +21.72 +21.00 +22.13	+25.66 +26.01 +26.49 +26.40 +26.47	+25.50 +25.48 +25.50 +25.43 +25.27	+24.86 +24.90 +24.92	e+100.85	e+96.37 e+95.61 e+83.34 e+87.17 e+81.65	+22.48 +77.18 +100.09 +100.76 +101.10	+94.55 +94.66 +95.10 +33.02 +24.53	+82.37 +92.15 +30.09 +24.58 +21.88	+15.03 +13.62 +12.47 +12.81 +13.99	+13.78 +13.60 +11.80 +11.27 +9.81
26 27 28 29 30 31	+29.35 +29.35 +29.22 +29.22 +29.33 +28.98	+25.32 +24.32 +24.65 +24.07 +23.38	+26.65 +26.72 +26.75 +26.59 +26.47 +26.49	+25.27 +25.41 +25.50 +25.43 +25.64 +25.29	+23.70 +25.06 +25.20	e+101.24 e+101.10 e+101.93 e+101.56 e+37.47 e+29.61		+101.49 +33.00 +21.93 +20.26	+22.43 +22.85 +24.19 +89.31 +92.13	+70.63 +49.77 +28.13 +33.46 +20.59 +17.08	+14.93 +14.93 +15.33 +14.20 +13.85 +14.17	+10.74 +81.22 +86.45 +77.57 +88.07
LOW	+23.66	+17.15	+24.56	+25.27	+23.36	+17.01	+17.84	+20.26	+19.55	+16.53	+12.47	+9.81
		WATER LEV	VEL, IN F	EET ABOVE			M, WATER N		BER 1992 T	O SEPTEMB	ER 1993	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+88.04 +88.09 +88.32 +89.13 +89.57	+91.32 +91.41 +95.17 +96.72 +97.48	+100.39 +100.41 +100.39 +100.41 +100.50	+101.10 +101.01 +100.80	+101.91 +101.95 +101.79 +101.79 +101.84	+101.49 +101.47 +101.42 +101.40 +101.42	+87.01 +101.15 +101.63 +101.84 +102.00	+87.10 +31.15 +20.93 +36.64 +70.19	+56.78 +91.80 +94.16 +94.57 +94.60	+25.32 +24.79 +25.41 +41.72 +38.37	+19.69 +18.30 +17.10 +17.70 +17.10	+95.31 +95.26 +95.15 +95.26 +95.52
6 7 8 9 10	+89.47 +90.03 +91.07 +90.21 +90.21	+97.83 +98.19 +98.49 +98.59 +98.63		+100.85 +100.82 +100.94 +100.99 +101.15	+101.91	+101.40 +101.40 +101.36	+101.98 +98.10 +97.13 +96.81	+91.37 +92.24 +92.61 +35.93	+94.87 +95.15 +95.08 +95.31	+34.87 +26.93 +47.79 +80.29	+16.25 +23.82 +17.93 +18.46	+95.96 +96.79 +96.72 +96.42
11 12 13 14	.00 04				. 101.75	+101.36	+96.33	+83.71	+95.50	+96.60	+24.62	+96.26
15	+89.94 +89.84 +90.05 +90.51 +90.30		+100.78 +100.80 +100.82 +100.87 +100.96	+101.22	+101.84 +101.91 +101.79 +101.72	+101.36 +101.31 +101.42					+24.62 +23.12 +27.60 +29.54 +23.91 +70.05	+96.26 +96.26 +96.53 +96.70
	+89.84 +90.05 +90.51	+98.86 +99.03 +99.21	+100.80 +100.82 +100.87 +100.96 +101.03 +101.24 +101.10 +101.08	+101.19 +101.22 +101.38 +101.54 +101.47 +101.66 +101.72	+101.84 +101.91 +101.79 +101.72 +101.72	+101.36 +101.31 +101.42 +101.45 +101.26 +101.03 +101.08 +101.38 +101.19	+96.33 +96.05 +94.92 +94.18 +93.63	+83.71 +92.52 +92.63 +92.59 +92.66	+95.50 +95.47 +95.93 +33.92 +22.41	+96.60 +58.44 +30.88 +34.06 +26.19	+23.12 +27.60 +29.54 +23.91	+96.26 +96.53 +96.70
15 16 17 18 19	+89.84 +90.05 +90.51 +90.30 +90.74 +91.04 +91.14	+98.86 +99.03 +99.21 +99.32 +99.60 +99.69 +99.83	+100.80 +100.82 +100.87 +100.96 +101.03 +101.24 +101.10 +101.08	+101.19 +101.22 +101.38 +101.54 +101.47 +101.66 +101.72	+101.84 +101.91 +101.79 +101.72 +101.56 +101.63 +101.68 +101.79	+101.36 +101.31 +101.42 +101.45 +101.26 +101.03 +101.08 +101.38 +101.19	+96.33 +96.05 +94.92 +94.18 +93.63 +93.51 +93.17 +93.00 +92.54 +91.99	+83.71 +92.52 +92.63 +92.59 +92.66 +92.75 +93.19 +93.60 +94.23 +93.97	+95.50 +95.47 +95.93 +33.92 +22.41 +19.83 +28.08 +66.40 +93.63 +95.06	+96.60 +58.44 +30.88 +34.06 +26.19 +80.94 +95.86 +96.69 +98.49 +30.85	+23.12 +27.60 +29.54 +23.91 +70.05 +31.91 +24.46 +20.77 +18.03	+96.26 +96.53 +96.70
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	+89.84 +90.05 +90.51 +90.30 +90.74 +91.04 +91.14 +90.19 +89.89 +89.29 +89.29 +89.29 +89.29 +89.29 +89.29 +89.29 +89.29 +89.29	+98.86 +99.03 +99.21 +99.32 +99.60 +99.69 +99.83 .83.04 +99.74 +100.11 +99.99 +100.02 +100.02	+100.80 +100.82 +100.96 +101.03 +101.24 +101.10 +101.08 +101.17 +101.17 +101.17 +101.10 +101.10 +101.10 +101.22 +101.22 +101.22	+101.19 +101.22 +101.38 +101.54 +101.54 +101.66 +101.72 +101.82 +101.75 +101.79 +101.91 +102.16 +102.02 +102.07 +101.91	+101.84 +101.91 +101.79 +101.72 +101.72 +101.63 +101.63 +101.79 +101.79 +101.68 +101.59 +101.59 +101.49	+101.36 +101.31 +101.42 +101.45 +101.26 +101.08 +101.38 +101.19 +101.22 +101.24 +98.24 +101.29 +101.49 +101.49 +101.49 +101.54 +88.55	+96.33 +96.05 +94.92 +94.18 +93.63 +93.51 +93.17 +93.00 +92.54 +91.99 +92.03 +92.13 +92.13 +92.06	+83.71 +92.52 +92.63 +92.59 +92.66 +92.75 +93.19 +93.60 +94.23 +93.97 +82.67 +32.49 +78.08 +92.45 +93.63 +93.60 +93.49 +93.33 +93.33 +93.33 +93.35 641.28	+95.50 +95.47 +95.93 +33.92 +22.41 +19.83 +28.08 +66.40 +93.63 +95.06 +28.64 +20.98 +20.43 +90.58 +94.25	+96.60 +58.44 +30.88 +34.06 +26.19 +80.94 +95.86 +96.69 +98.49 +30.85 +24.79 +21.81 +20.98 +21.16 +29.61 +26.65 +59.28 +31.06 +25.43 +21.30	+23.12 +27.60 +29.54 +23.91 +70.05 +31.91 +24.46 +20.77 +18.03 +17.20 +58.79 +93.97 +95.24 +95.50 +95.08 +95.08 +95.33 +95.33 +95.36 +95.50	+96.26 +96.53 +96.70
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	+89.84 +90.05 +90.51 +90.33 +90.74 +91.04 +91.14 +90.19 +89.89 +89.38 +89.24 +89.29 +89.80 +89.77 +89.70 +94.02 +91.62	+98.86 +99.03 +99.21 +99.32 +99.60 +99.69 +99.83 .83.04 +99.74 +100.01 +99.99 +100.02 +100.02 +100.03 +100.25 +100.25	+100.80 +100.82 +100.87 +100.96 +101.03 +101.24 +101.10 +101.17 +101.17 +101.17 +101.17 +101.10 +101.10 +101.10 +101.10	+101.19 +101.22 +101.38 +101.54 +101.54 +101.66 +101.72 +101.82 +101.75 +101.79 +101.91 +102.16 -102.02 +102.07 +101.91 +101.79	+101.84 +101.91 +101.79 +101.72 +101.72 +101.68 +101.68 +101.68 +101.68 +101.59 +101.59 +101.49 +101.49	+101.36 +101.31 +101.42 +101.45 +101.26 +101.08 +101.38 +101.19 +101.19 +101.22 +101.24 +98.24 +101.29 +101.26 +101.49 +101.49 +101.49	+96.33 +96.05 +94.92 +94.18 +93.63 +93.51 +93.17 +93.00 +92.54 +91.99 +92.03 +92.03 +92.06 +92.01 +91.30 +87.03 +87.03 +87.03 +87.03 +87.03 +87.03	+83.71 +92.52 +92.63 +92.59 +92.66 +92.75 +93.19 +93.60 +94.23 +93.97 +82.67 +32.49 +78.08 +92.45 +93.60 +93.60 +93.86 +93.49 +93.49 +93.49 +93.49 +93.49 +93.56	+95.50 +95.47 +95.93 +33.92 +22.41 +19.83 +28.08 +66.40 +93.63 +95.06 +28.64 +20.98 +20.43 +90.58 +94.25 +95.01 +94.87 +94.83 +94.83 +95.52 +30.41	+96.60 +58.44 +30.88 +34.06 +26.19 +80.94 +95.86 +96.69 +98.49 +30.85 +24.79 +21.81 +20.98 +21.16 +29.61 +26.65 +59.28 +31.06 +25.43	+23.12 +27.60 +29.54 +23.91 +70.05 +31.91 +24.46 +20.77 +18.03 +17.20 +58.79 +93.97 +95.50 +95.08 +95.08 +95.08 +95.33 +95.33	+96.26 +96.53 +96.70

e Estimated

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

		WIIIDK DD	VDD, IIV I	EEI ADOVE			EST VALUES		BER 1993 .		JER 1991	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			e+107.4									+67.47
2					e+105.5							+32.03
3 4			e+107.4									+79.44 +63.04
5												+23.08
6				e+105.5								+19.02
7							e+106.40					+16.67
8 9		e+105.1	e+107.6		e+106.4							+21.00 +20.86
10												+21.16
11										* · FF F		. 21 44
11 12				e+106.0						e+55.5 		+21.44 +18.93
13										e+55.2		+19.11
14	e+103.2											+23.22
15						e+105.8						+25.02
16						e+105.3						+23.70
17			e+106.7								+21.72	+23.79
18 19				e+106.0	e+106.9						+23.56	+22.43
20				e+106.0			e+106.0				+21.72 +24.19	+20.52 +20.84
21 22			e+106.4								+21.79 +19.48	+20.08
23					e+106.9						+19.48	+23.56 +16.27
24											+21.97	+16.57
25											+20.33	+16.83
26				e+106.4							+20.36	+16.99
27											+19.92	+16.83
28				e+105.5							+19.89	+15.26
29 30			e+106.4			e+106.0					+19.43 +17.52	+14.98 +14.82
31											+17.73	
	100.00	105 10	106.40	105 50	105 50	105 20	105.00			FF 00	15.50	14.00
LOW	+103.20	+105.10	+106.40	+105.50	+105.50	+105.30	+106.00			+55.20	+17.52	+14.82
		WATER LE	WET. IN E	FFT ABOVE	T.AND_SIID	EVCE DVAIL	M WATED	VEND OCTOR	2FD 1994 F	ro grotemi	2FD 1005	
		WATER LE	VEL, IN F	EET ABOVE			M, WATER S		BER 1994 1	TO SEPTEME	BER 1995	
DAY	OCT				I	DAILY LOWE	EST VALUES					SEP
DAY	OCT	NOV	DEC	JAN	FEB	DAILY LOWE	EST VALUES	MAY	JUN	JUL	AUG	SEP
1	+16.00	NOV +16.50	DEC +102.42	JAN 	FEB 	DAILY LOWE MAR +105.83	APR +107.28	MAY	JUN +109.20	JUL	AUG	+27.78
1 2	+16.00 +19.57	NOV +16.50 +18.35	DEC +102.42 +103.11	JAN 	FEB 	MAR +105.83 +105.90	APR +107.28 +107.33	MAY 	JUN +109.20 +106.25	JUL 	AUG	+27.78 +25.94
1	+16.00	NOV +16.50 +18.35 +18.14	DEC +102.42	JAN 	I FEB 	DAILY LOWE MAR +105.83	APR +107.28 +107.33 +103.66	MAY	JUN +109.20 +106.25 +108.81	JUL	AUG	+27.78
1 2 3	+16.00 +19.57 +18.76	NOV +16.50 +18.35 +18.14	DEC +102.42 +103.11 +103.71	JAN 	FEB 	MAR +105.83 +105.90 +106.13	APR +107.28 +107.33 +103.66	MAY +108.85	JUN +109.20 +106.25 +108.81	JUL 	AUG	+27.78 +25.94 +26.40
1 2 3 4 5	+16.00 +19.57 +18.76 +19.20 +29.70	NOV +16.50 +18.35 +18.14 +15.21 +13.87	DEC +102.42 +103.11 +103.71 +103.34	JAN 	FEB 	MAR +105.83 +105.90 +106.13 +106.13 +106.20	APR +107.28 +107.33 +103.66 +102.81 +102.79	MAY +108.85 +108.78 +108.90	JUN +109.20 +106.25 +108.81 +109.87 +98.33	JUL 	AUG	+27.78 +25.94 +26.40 +34.94 +27.78
1 2 3 4	+16.00 +19.57 +18.76 +19.20	NOV +16.50 +18.35 +18.14 +15.21	DEC +102.42 +103.11 +103.71 +103.34	JAN 	FEB 	MAR +105.83 +105.90 +106.13 +106.20 +106.08	APR +107.28 +107.33 +103.66 +102.81	MAY +108.85 +108.78	JUN +109.20 +106.25 +108.81 +109.87 +98.33	JUL 	AUG 	+27.78 +25.94 +26.40 +34.94
1 2 3 4 5 6 7 8	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85	DEC +102.42 +103.11 +103.71 +103.34 +106.71 +105.16	JAN e+106.9	FEB +105.46	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35	JUL 	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48
1 2 3 4 5 6 7 8 9	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59	DEC +102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62	JAN e+106.9	FEB +105.46 +105.53	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61	JUL	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86
1 2 3 4 5 6 7 8	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85	DEC +102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62	JAN e+106.9	FEB +105.46	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35	JUL 	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48
1 2 3 4 5 6 7 8 9	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72	JUL	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86
1 2 3 4 5 6 7 8 9 10	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60	+102.42 +103.11 +103.71 +103.34 +106.71 +105.62 +106.64 +106.71 +105.44	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.34 +106.35	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72	JUL	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86 +29.63
1 2 3 4 5 6 7 8 9 10 11 12 13	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.36 +106.48 +106.59 +106.48 +106.59	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15	JUL	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.66 +29.63 +34.48 +40.93 +27.32
1 2 3 4 5 6 7 8 9 10	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.18	+102.42 +103.11 +103.71 +103.34 +106.71 +105.62 +106.64 +106.71 +105.44	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +106.34 +106.36 +106.48 +106.59 +106.29 +106.49	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15	JUL	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86 +29.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.71	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.45 +106.45 +106.45	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.05 +107.31 +107.56	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63	JUL e+28.27 +40.50	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.48 +40.93 +27.32 +26.63 +26.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.45 +106.45	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.21 +107.31	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63	JUL e+28.27 +40.50	AUG	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +28.71
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +23.63 +14.64 +30.16	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.45 +106.45	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.21 +107.31	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +24.09 +22.25 +22.02	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.48 +40.93 +27.32 +26.63 +26.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.37 +105.44	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.45 +106.45	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.21 +107.31	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.02 +22.71	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +26.63 +28.71 +35.86 +32.86 +43.70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.37	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.45 +106.45	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.05 +107.31 +107.56	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.49 +40.93 +27.32 +26.63 +28.71 +35.86 +32.86
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.37 +105.44 +105.67 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.71 +105.44 +106.75 +106.65 +106.55 +106.55	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.36 +106.48 +106.59 +106.49 +106.49 +106.49 +106.59 +106.99 +106.99 +106.99 +106.15 +106.71 +106.78 +107.08 +107.08	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.05 +107.31 +107.56 +107.35 +107.35 +107.35 +107.35 +107.35 +107.56	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +107.31 +107.12 +107.79 +108.00 +109.59 +110.38	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.93 +27.32 +26.63 +26.63 +28.71 +35.86 +32.86 +43.70 +36.78
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.47 +105.44 +105.67 +105.92 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.55 +106.55 +106.55 +106.55	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.88 +105.76 +105.88 +105.76	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.45 +106.45 +106.71 +106.75 +106.79 +106.99 +107.19	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.21 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +107.31 +107.12 +107.79 +108.00 +109.59 +110.38 +110.51 +110.51	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +31.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +26.86 +28.71 +35.86 +31.86 +3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +105.92 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.55 +106.68 +106.55 +106.55 +106.55 +106.55 +102.88 +105.12	### DAN	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.59 +106.69 +106.71 +106.71 +106.78 +106.79 +106.79 +106.79 +106.79 +106.79 +106.79 +106.79	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.21 +107.56 +107.35 +107.31 +107.56 +107.35 +107.35 +107.35 +107.35 +107.35 +107.35	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.03 +107.31 +107.12 +107.79 +108.00 +109.59 +110.38	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.48 +40.93 +27.32 +26.63 +28.71 +35.86 +43.70 +36.78
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +105.92 +104.08	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.55 +106.08 +106.55 +106.08 +106.55 +106.28 +106.55 +106.55	yan e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.88 +106.02 +105.88 +106.02	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.59 +106.59 +106.15 +106.71 +106.78 +106.79 +106.99 +106.19 +106.79 +106.99 +106.19 +106.71 +106.99 +106.19 +106.71 +106.99 +106.19 +107.19 +107.19 +107.19 +107.19 +107.19 +107.28	APR +107.28 +107.33 +103.66 +102.81 +102.79 +106.66 +104.17 +102.92 +106.41 +106.82 +107.05 +107.08 +107.05 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.56 +107.31 +107.15 +107.33	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.03 +107.31 +107.12 +107.79 +108.00 +109.59 +110.38 +110.51 +110.26 +110.38 +10.62	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +110.08	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.48 +40.93 +27.32 +26.63 +27.32 +26.63 +28.71 +35.86 +43.70 +36.78 +49.70 +44.86 +44.86 +44.86 +44.86 +44.86
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +104.98 +104.15 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.08 +106.55 +106.55 +106.55 +106.55	JAN e+106.9 e+109.2	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.93 +105.93 +105.93 +105.93	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.36 +106.48 +106.59 +106.49 +106.69 +106.71 +107.19 +107.19 +107.19 +107.19 +107.28 +107.17	**PR** **	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.03 +107.31 +107.12 +107.79 +108.00 +109.59 +110.38	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +110.08 +110.44	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.93 +27.32 +26.63 +28.71 +35.86 +32.86 +43.70 +36.78 +49.70 +46.47 +47.16 +54.55
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.34 +105.44 +105.67 +105.92 +104.08 +104.05 +105.92 +105.92 +105.92 +105.92 +105.92 +105.92 +105.92 +105.92 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.62 +106.64 +105.44 +106.66 +100.32 +105.85 +106.55 +106.55 +106.55 +106.55 	JAN e+106.9 e+109.2 e+106.9	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.88 +105.76 +105.88 +105.35 +106.02	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.48 +106.59 +106.59 +106.71 +106.71 +106.78 +106.79 +106.99 +106.15 +106.71 +106.71 +106.71 +106.71 +106.71 +106.71 +107.11 +107.11	**PR*** **PR** **PR***	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.31 +107.12 +107.79 +108.00 +109.59 +110.38 +110.51 +110.26 +110.38 +10.51 +110.26 +110.05	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +35.86 +104.05 +109.34 +110.08 +110.44	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.93 +27.32 +26.63 +28.71 +35.86 +32.86 +43.70 +36.78 +49.70 +46.47 +47.16 +54.55
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 25 26 27	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26 +12.26 +12.26 +12.26 +13.27	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +104.08 +104.15 +105.21	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.08 +106.55 +106.98 +105.12	### DAN	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.83 +105.93 +105.93 +105.93 +105.93	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.34 +106.59 +106.48 +106.59 +106.69 +106.78 +106.71 +106.78 +107.19 +107.19 +107.19 +107.19 +107.28 +107.32	**PR** **107.28** **107.33** **103.66** **102.81** **102.79** **106.66** **104.17** **102.92** **106.41** **107.08** **107.08** **107.08** **107.31** **107.38** **107.35** **107.38** **10	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.31 +107.12 +107.79 +108.00 +109.59 +110.38 +110.51 +110.26 +110.38 +10.51 +110.26 +110.05	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +35.86 +104.05 +109.34 +110.08 +110.44	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.02 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63 +29.40 +36.32	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +31.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +28.71 +35.86 +32.86 +43.70 +36.78 +49.70 +44.86 +47.16 +54.55
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26 +12.26 +12.26 +12.26 +13.27	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +104.08 +104.15 +105.21	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.08 +106.55 +106.98 +105.12	### DAN	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.83 +105.93 +105.93 +105.93 +105.93	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.34 +106.59 +106.48 +106.59 +106.69 +106.78 +106.71 +106.78 +107.19 +107.19 +107.19 +107.19 +107.28 +107.32	**PR** **107.28** **107.33** **103.66** **102.81** **102.79** **106.66** **104.17** **102.92** **106.41** **107.08** **107.08** **107.08** **107.31** **107.38** **107.35** **107.35** **107.38** **107.35** **107.38** **10	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.51 +106.32 +109.68 +110.03 +110.03 +110.38 +110.38 +110.38 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +110.08 +110.44 +56.35 e+95.29	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.02 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63 +29.40 +36.32 +33.78	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.63 +34.93 +27.32 +26.63 +28.71 +35.86 +32.86 +43.70 +36.78 +49.70 +46.47 +47.16 +54.55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26 +12.26 +12.26 +12.26 +13.27	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +104.08 +104.15 +105.21	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.08 +106.55 +106.98 +105.12	### DAN	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.83 +105.93 +105.93 +105.93 +105.93	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.34 +106.59 +106.48 +106.59 +106.69 +106.78 +106.71 +106.78 +107.19 +107.19 +107.19 +107.19 +107.28 +107.32	**PR** **107.28** **107.33** **103.66** **102.81** **102.79** **106.66** **104.17** **102.92** **106.41** **107.08** **107.08** **107.08** **107.31** **107.38** **107.35** **107.35** **107.38** **107.35** **107.38** **10	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.51 +106.32 +109.68 +110.03 +110.03 +110.38 +110.38 +110.38 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +109.34 +110.08 +110.44 +56.35 e+95.29	JUL e+28.27 +40.50 +93.58 e+80.15	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.02 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63 +29.63	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +28.71 +35.86 +32.86 +32.86 +43.70 +36.78 +49.70 +44.86 +47.16 +54.55 +104.38 +102.49 +105.95 e+106.66
1 2 3 4 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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	+16.00 +19.57 +18.76 +19.20 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26 +12.26 +12.26 +12.26 +13.27	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92 +105.92 +104.08 +104.15 +105.21	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +106.71 +105.44 +106.66 +100.32 +105.85 +106.08 +106.55 +106.98 +105.12	JAN e+106.9 e+109.2 e+106.9	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.62 +105.88 +105.76 +105.92 +105.88 +106.02 +105.83 +105.93 +105.93 +105.93 +105.93	MAR +105.83 +105.90 +106.13 +106.13 +106.20 +106.34 +106.34 +106.59 +106.48 +106.59 +106.69 +106.78 +106.71 +106.78 +107.19 +107.19 +107.19 +107.19 +107.28 +107.32	**PR** **107.28** **107.33** **103.66** **102.81** **102.79** **106.66** **104.17** **102.92** **106.41** **107.08** **107.08** **107.08** **107.31** **107.38** **107.35** **107.35** **107.38** **107.35** **107.38** **10	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.31 +107.12 +107.12 +107.79 +108.00 +109.59 +110.38 +110.51 +110.51 +110.51 +110.51 +110.51 +110.51 +110.71	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.84 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +35.86 +104.05 +109.34 +110.08 +110.44 +56.35 e+95.29	JUL	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63 +29.40 +36.32 +33.78 +33.78	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.86 +29.63 +34.48 +40.93 +27.32 +26.63 +26.63 +28.71 +35.86 +32.86 +32.86 +43.70 +36.78 +49.70 +44.86 +47.16 +54.55 +104.38 +102.49 +105.95 e+106.66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	+16.00 +19.57 +18.76 +19.20 +29.70 +29.70 +26.93 +79.84 +68.16 +25.29 +14.17 +13.27 +11.64 +18.00 +14.20 +23.63 +14.64 +30.16 +13.37 +12.40 +10.83 +10.62 +10.37 +13.60 +12.26 +12.26 +13.87 +10.14 +23.70 +16.39 +16.50	NOV +16.50 +18.35 +18.14 +15.21 +13.87 +17.36 +49.96 +22.85 +92.59 +36.94 +71.46 +105.60 +106.27 +106.18 +104.31 +102.97 +105.37 +105.44 +105.67 +105.92	+102.42 +103.11 +103.71 +103.34 +106.71 +105.16 +105.62 +106.64 +100.32 +105.44 +106.66 +100.32 +105.85 +106.55 +106.55 +106.55 +102.88 +105.12 +104.22 +103.39 +104.63 e+75.84	JAN e+106.9 e+109.2 e+106.9 e+106.9	FEB +105.46 +105.53 +105.69 +103.27 +104.79 +105.76 +105.88 +105.88 +105.88 +105.97 +105.92 +104.40 +102.32 +105.93 +105.97 +105.74 +105.74	MAR +105.83 +105.90 +106.13 +106.20 +106.08 +105.97 +106.20 +106.34 +106.36 +106.36 +106.45 +106.45 +106.49 +106.15 +106.71 +106.71 +106.78 +107.01 +107.19 +107.19 +107.31 +107.31 +107.31 +107.31 +107.33 +107.33	**PR** **107.28** **107.33** **103.66** **102.81** **102.79** **106.66** **104.17** **102.92** **106.41** **107.08** **107.08** **107.08** **107.31** **107.38** **107.35** **107.35** **107.38** **107.35** **107.38** **10	MAY +108.85 +108.78 +108.90 +106.36 +105.69 +107.91 +105.76 +105.51 +106.32 +109.68 +110.03 +110.03 +110.31 +107.12 +107.79 +108.00 +109.59 +110.38 +110.26 +110.26 +110.38 +110.26 +110.38 +110.51 +110.26 +110.38 +110.51 +110.26 +110.38 +110.51 +110.38 +110.51	JUN +109.20 +106.25 +108.81 +109.87 +98.33 +106.59 +110.31 +110.35 +110.61 +110.72 +110.95 +108.48 +109.15 +109.82 +55.63 +100.76 +105.85 +65.90 +38.42 +37.24 +35.86 +104.05 +38.42 +37.24 +35.86 +104.05 +38.42 +37.24 +35.86 +104.05 +38.42 +37.24	JUL	e+21.97 +23.40 +36.09 +29.17 +24.09 +22.25 +22.71 +37.01 +31.01 +25.71 +24.56 +29.63 +29.40 +36.32 +33.78 +26.63 +24.32 +28.71	+27.78 +25.94 +26.40 +34.94 +27.78 +26.63 +34.48 +31.48 +29.66 +29.63 +34.48 +40.93 +27.32 +26.63 +26.86 +28.71 +35.86 +32.86 +43.70 +36.78 +49.70 +44.86 +46.47 +47.16 +54.55 +104.38 +102.49 +105.95 e+106.66

e Estimated

SITE NUMBER 46-Continued WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DATLY LOWEST VALUES OCT NOV DEC FEB DAY JAN MAR APR MAY JUN JUL AUG SEP +108 33 +109.27 +109.09 +107.66 +102.03 +27.21 +30.81 +108.28 ---+109.32 +109.41 +107.52 +101.57 +26.45 +25.09 3 ___ ___ ---+108.88 ___ --- +109.29 +109.87 +108.46 +101.22 +25.87 +32.98 ___ ___ ------___ ---+109.11+109.99 +107.89 +101.20 +28.18+30.51+108.99 +110.01 +108.07 +101.91 +28.30 5 +29.08 +108 74 +108 99 +108 37 +107 79 +27 19 +72 27 6 +102 30 ------+109.34 ---+109.18 +110.08 +108.65 +102.05 +108.83 +25.48 +48.46 8 ___ ---+109.02 +109.34 ---+109.29 +108.00 +107.33 +102.12 +24.21 +40.66 9 ------+109.09 +109.32 ---+109.32 +107.56+107.10 +102.05 +24.07 +36.02 +108.95 +109.09 +108.26 +109.57 10 +109.11 +106.85 +102.17 +33.56 +30.28 11 ---+109.09 +109.09 +109.09 +108.12+109.85+107.54+101.40+29.08+29.15___ +109.20 +109.09 +109.20 +108.14 +110.19 +107.01 +101.40 +25.55 12 +33.51 ------+109.29 +109.02 +109.39 +109.64 +108.26 +110.31 +24.37 13 +106.62 +101.45 14 ___ ___ +109.18 +108 88 +109.20 +108 30 +110 54 +106 85 +101 89 +24 24 +36 23 +109.94 +109.02 +109.48 +105.90 +23.61 15 ------+108.39 +101.47 +32.59+23.40 16 +109.18 +110.01 +108.39 +107.66 +107.45+101.34 +27.53 +58.36 +109.32 17 ---------+109.80 +108.53 +109.23 +106.53 +100.50 +25.55 +26.52 18 +52.15 ------+109.46 +109.55 +108.53 +108.93 +106.16 +100.11 +24.49 +40.52 19 +50.54 ___ +109.46 +109.50 +108.60 +107.82 +106.80 +99 90 +23.77 +46.41 2.0 +57.32 ------+109.39 +109.34 +108.53 +109.55 +106.02 +99.88 +24.19+39.67 +109.36 +108.21 +109.39 +108.83 +108.53 +109.59 22 +57.92 ---+108.23 +109.39 +108.46 +108.37 +105.76 +102.14 +23.06 +34.76 ---+109.62 ------23 +55.86 +109.41 +108.53 +109.55 +106.16 +102.65 +22.78 +32.84 +108.53 +109.41 +109.43 +108.69 +109.73 +106.04 +100.67 +22.69 25 +108.49 +109.29 +108.65 +107.54 +104.61 +100.48 +65.58 +22.46 +32.40 26 +58.70 +108.56 +108.67 +107.17 +103.92 +38.26 27 +61.95 ---+108.39 ------___ +108.83 +109.41 +103.50 +76.12 +30.65 +37.69 ------------28 +61.24 +108.42 +108.86 +108.81 +103.32 +80.11 +23.59 +40.04 29 +108.39 +108.28 +108.46 +103.30 +38.72 +22.67 +41.56 +103 83 ___ +108 53 ___ ___ ___ +100.69 +108 79 +102 72 +29 82 +33 86 3 0 +35.82 ------31 +108.39 ---+108.49 +109.41 +27.83 +30.03LOW +50.54 --- +108.21 +108.28 +109.09 +108.83 +100.69 +107.17 +102.72 +27.83 +21.44 +25.09 WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT DEC JAN FEB MAR JUN MAY +101.93 +108.16 +109.98 +109.29 +101.63 +109.82 +110.98 +60.59 +29.01 +33.12+42.48 +32.51 +109.29 +110.79 +49.17 +57.82 +31.31 +102.56 +108.11 +110.26 +109.66 +109.87 +54.59 +27.90 +110.42 +109.06 +109.29 +110.03 +110.86 +53.37 +38.24 +51.13 +31.73 +103.55 +108.07 +28.15 4 +29.72 +103 78 +108 18 +110 31 ___ +110.01 +111.00 +52 01 +36 53 +50 69 +29 10 +30.32 +105.81 +109.96 +38.07 +44.97 5 +103.64 ---+111.00 +43.63 +35.84 +103 87 +108 21 ---+109 36 +109 89 +111 07 +40 15 +34 48 +60 20 6 +34 54 +33 32 +108.14 ---+109.41 +30.30 +29.61 +103.45 +111.04 +51.50 +46.96 +33.78 ---+29.61 +103.32 +108.25 ---+109.52 +109.36 ___ +110.88 +41.42 +28.50 +41.33 +28.15 +35.74 +37.06 9 +29.10 +103.69 +108.35 ---+109.52 +109.36 ---+110.38 +27.72 +64.31 +26.12 +109.52 10 +103.80 +108.39 +109.48 +111.04 +27.81 +102.97 +28.89 +26.56 +28 48 +111 16 +96.95 +33 39 11 +103.55 +108 21 ___ +109 45 +109.41 ___ +47 81 +26.65 +108.28 ---+109.55 ---+42.71 12 +28.04+102.92 +109.38 +44.67 +32.86+54.96 +32.31+108.37 +109.36 +41.21 +43.40 +48.23 13 +35.49 +101.59 +33.90 +28.09 +101.56 +35.61 +108.21 ---+109.45 ---+110.10 +42.99 +50.69 +27.95 +45.02 +28.36 ___ 15 +32 47 +102 46 +109 48 +109 85 +43 43 +50 35 +26 93 +41 53 +27 92 +84.33 +58.12 +102.56 +109.25 +109.64 +109.94 +37.80 +45.55 +26.40 16 17 +51.92 +103.02 ------+109.31 +109.29 +110.08 +33.05 +40.57 +37.22 +26.45 +27.09 +104.12 ___ ___ +110.08 +52.26 +50.30 +109.25 +109.22 18 +103.52 +31.48 +57.08 ---+110.17 +37.61 +103.52 +109.34 +109.38 +41.30 +40.96 +51.04 20 +57.31 +104.26 ___ ___ +109.38 +109.50 +110.33 +34.54 +39.44 +34.24 +39.94

SITE NUMBER 46—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+28.75 +28.71 +26.82 +26.17 +26.22	+38.77 +43.61 +42.73 +41.83 +45.66	+98.68 +48.76 +39.71 +39.99 +45.71	+59.30 +45.53 +41.51 +41.67 +38.90	+41.05 +35.38 +35.33 +40.27 +35.84	+44.49 +42.57 +37.13 +41.28 +42.94	+45.62 +43.15 +39.99 +39.48 +108.30	+30.60 +41.86 +31.22 +29.72 +29.95	+26.63 +26.40 +27.25 +30.69 +29.72	+41.63 +32.65 +29.08 +28.59 +38.81	+37.73 +30.44 +31.18 +30.78 +30.21	+24.14 +23.49 +23.98 +23.66 +22.87
6 7 8 9 10	+25.94 +27.02 +28.98 +71.92 +39.39	+55.58 +67.95 +44.56 +42.13 +44.12	+46.68 +43.13 +38.12 +36.83 +44.67	+37.54 +37.11 	+36.04 +38.97 +36.87 +36.25 +39.39		+65.60 +42.46 +42.04 +41.74 +39.16	+30.12 +36.04 +30.95 +36.28 +35.10	+30.60 +42.80 +32.58 +31.75 +30.32	+35.93 +43.15 +32.63 +32.33 +31.45	+32.75 +30.14 +34.15 +31.48 +26.38	+22.57 +30.90 +29.86 +26.70 +25.20
11 12 13 14 15	+43.82 +44.14 +38.97 +35.72 +35.05	+41.26 +41.03 +56.85 +54.06 +94.55	+46.93 +46.17 +48.48 +42.69 +37.13	 	+35.10 +34.91 +44.30 +41.00	 +42.46 +40.31	+37.82 +47.83 +46.29 +48.87 +106.48	+31.36 +39.90 +36.76 +34.84 +34.82	+29.84 +33.30 +32.12 +34.24 +39.53	+27.69 +26.38 +26.08 +27.30 +27.28	+25.59 +36.16 +39.94 +26.82 +26.47	+22.25 +22.36 +27.39 +24.83 +24.81
16 17 18 19 20	+51.20 +52.49 +90.10 +103.75 +104.52	+52.98 +46.13 +44.72 +54.96 +95.89	+35.95 +36.07 +41.33 +36.53 +36.23	+40.80 +39.46 +50.67 +40.80 +39.71	+40.45 +38.40 +42.37 +40.22 +51.13	+37.84 +37.36 +39.67 +39.34 +57.91	+52.17 +42.69 +48.16 +44.74 +47.58	+41.33 +37.73 +31.91 +29.98 +30.16	+36.81 +33.60 +33.41 +35.49 +34.80	+29.24 +27.51 +27.55 +27.16 +28.78	+27.62 +27.12 +26.15 +39.87 +36.04	+24.49 +24.16 +24.46 +30.00 +29.33
21 22 23 24 25	+106.87 +108.37 +108.88 +54.64 +93.33	+60.34 +103.15 +71.73 +107.61 +56.12	+36.78 +39.30 +42.43 +47.26 +45.16	+39.11 +42.90 +42.18 +42.07 +40.38	+89.36 +107.19 +43.77 +41.56 +42.39	+47.56 +40.59 +38.86 +39.55 +37.96	+42.83 +43.15 +39.92 +37.66 +37.47	+40.94 +37.84 +37.66 +39.02 +30.85	+50.83 +32.86 +32.03 +34.04 +40.24	+27.69 +26.47 +26.33 +30.44 +30.44	+42.73 +43.45 +39.83 +36.00 +35.86	+31.02 +43.68 +42.53 +32.84 +32.49
26 27 28 29 30 31	+105.58 +51.99 +39.25 +48.57 +50.00 +40.36	+95.20 +109.22 +110.28 +110.31 +56.83	+45.27 +45.06 +42.41 +42.57 +43.13 +41.12	+39.57 +44.93 +38.19 +35.35 +35.12 +39.30	+40.75 +44.60 +45.69	+40.77 +39.64 +39.32 +45.32 +40.96 +40.08	+42.13 +42.94 +35.95 +32.75 +30.39	+30.18 +29.72 +27.99 +27.51 +27.30 +27.21	+37.59 +38.84 +35.95 +31.50 +30.14	+29.45 +27.65 +27.37 +31.57 +49.63 +39.90	+33.09 +32.84 +28.48 +26.63 +26.45 +25.69	+40.82 +33.11 +30.88 +30.35 +26.52
LOW	+25.94	+38.77	+35.95	+35.12	+34.91	+37.13	+30.39	+27.21	+26.40	+26.08	+25.59	+22.25

SITE NUMBER FROM LOCATION MAP.—47.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N7E1DBBB.

SITE ID (STATION NUMBER).—440427103131701.

OTHER IDENTIFIER.—RC-7 and Star Village.

LOCATION.—Lat 44°04''26.6", long 103°13'18.0", in NW¹/4NW¹/4NW¹/4SE¹/4 sec. 1, T. 1N., R. 7 E., Hydrologic Unit 10120110, at Rapid City. Owner: City of Rapid City.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled unused production well, 3,280 ft deep with 20-in. steel casing from 0 to 38 ft, 13.75-in. steel casing from -1 to 1,643 ft, and 12.25-in. steel casing from 1,643 to 2,792 ft; open hole from 2,792 to 3,280 ft.

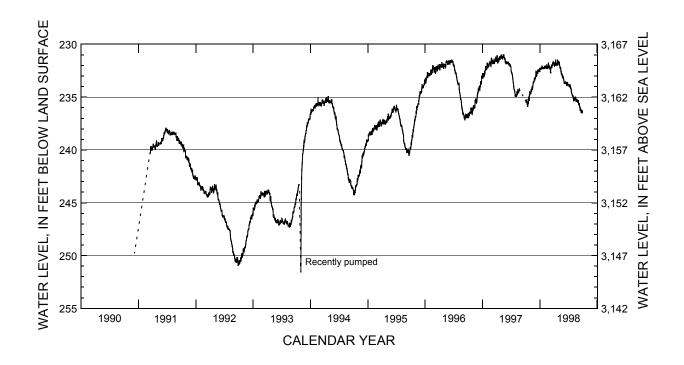
INSTRUMENTATION.—Electronic data logger with float.

DATUM.—Elevation of land-surface datum is 3,397.3 ft above sea level. Measuring point: Top of steel casing, 1.0 ft above land-surface datum.

REMARKS.—Records good. Sharp decrease in water level during October-November 1992 caused by recent pumping.

PERIOD OF RECORD.—December 1990 to September 1998.

EXTREMES.—Highest daily water level, 230.95 ft below land-surface datum, May 13, 1997; lowest water level, 251.59 ft below land-surface datum, Nov. 1, 1993.



DAY

	WATER LEVEL,	IN FEET	BELOW	LAND-SURFACE DAILY	DATUM, LOWEST			BER 1990	TO SEPTEMB	ER 1991
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
						239.88		239.18		238.30
						239.71	239.67	239.10	238.22	238.42
						239.82		238.98	238.25	238.56

SEP

1	 		 		239.88	239.66	239.18	238.15	238.30	238.72
2	 		 		239.71	239.67	239.10	238.22	238.42	238.76
3	 		 		239.82		238.98	238.25	238.56	239.12
4	 		 		239.77		238.96	238.16	238.50	238.95
5	 		 		239.62		239.03	238.03	238.28	238.90
6	 		 		239.42		239.05	238.11	238.38	238.79
7	 	e249.8	 		239.63	239.58	238.94	238.41	238.45	238.69
8	 		 		239.70	239.51	238.82	238.36	238.58	238.85
9	 		 		239.76	239.28	238.88	238.33	238.47	239.10
10	 		 		239.57	239.49	238.94	238.27	238.37	239.10
11	 		 		239.63	239.57	238.65	238.37	238.43	238.95
12	 		 		239.65	239.41	238.62	238.52	238.47	238.98
13	 		 		239.66	239.46	238.43	238.47	238.46	238.94
14	 		 		239.58		238.34	238.27	238.30	238.87
15	 		 		239.66		238.53	238.22	238.27	239.02
16	 		 	240.29	239.82		238.36	238.25	238.36	239.12
17	 		 	240.31	239.79		238.29	238.24	238.47	239.27
18	 		 	240.27	239.82		238.45	238.20	238.54	239.36
19	 		 	240.11	239.95		238.34	238.28	238.42	239.35
20	 		 	239.65	239.82		238.17	238.26	238.41	239.06
0.1				239.80	020 60	239.27	238.29	238.31	020 52	020 10
21 22	 		 	239.80	239.62 239.53	239.27	238.29	238.31	238.53 238.54	239.19 239.39
23	 		 	239.88	239.53	239.33	238.22	238.58	238.54	239.39
23	 		 	239.99	239.54	239.42	238.19	238.56	238.54	239.40
25	 		 	239.99	239.47	239.47	238.06	238.56	238.47	239.40
25	 		 	239.11	239.33	239.33	237.90	230.47	230.49	239.34
26	 		 	239.66	239.15	239.26	238.01	238.36	238.43	239.36
27	 		 	239.70	239.13	239.20	238.14	238.45	238.41	239.30
28	 		 	239.76	239.42	239.36	238.01	238.50	238.62	239.27
29	 		 	239.96	239.43	239.23	238.06	238.41	238.77	239.45
30	 		 	239.95	239.64	238.88	237.99	238.38	238.82	239.58
31	 		 	240.03		239.11		238.41	238.84	
31				210.05		207.11		230.11	233.01	
LOW	 		 	240.31	239.95	239.67	239.18	238.63	238.84	239.58
							207.10			200.00

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239.22	240.69	241.75	242.79	243.37	243.99	244.11	243.66	245.19	246.42	247.53	249.82
2	239.34	240.76	241.83	242.62	243.62	244.02	243.84	243.79	245.07	246.60	247.59	249.96
3	239.37	240.72	241.91	242.65	243.82	244.00	243.53	243.76	245.09	246.59	247.55	250.02
4	239.54	240.61	241.90	242.61	243.82	243.93	243.48	243.71	245.14	246.57	247.57	249.95
5	239.64	240.61	241.82	242.62	243.56	243.89	243.56	243.67	245.23	246.54	247.67	250.15
6	239.64	240.77	241.70	242.62	243.57	243.97	243.67	243.54	245.36	246.47	247.58	250.29
7	239.44	240.89	241.81	242.74	243.56	244.06	243.79	243.49	245.47	246.65	247.65	250.48
8	239.69	240.88	242.09	242.80	243.54	244.16	243.67	243.40	245.58	246.81	247.74	250.38
9	239.77	240.91	242.14	242.90	243.43	244.29	243.61	243.27	245.59	246.75	248.08	250.54
10	239.79	240.95	242.12	242.91	243.68	244.23	243.63	243.38	245.65	246.91	248.36	250.64
11	239.68	240.86	242.13	242.60	243.75	244.18	244.05	243.59	245.79	246.75	248.40	250.46
12	239.62	240.73	241.89	242.89	243.56	244.23	243.99	243.85	245.79	246.83	248.53	250.41
13	239.73	240.69	242.39	242.93	243.45	244.35	243.75	243.91	245.67	246.85	248.59	250.45
14	239.78	240.89	242.42	243.29	243.54	244.41	243.78	243.76	245.82	246.81	248.64	250.50
15	239.69	241.09	242.41	243.24	243.55	244.35	243.82	243.77	245.78	247.01	248.63	250.33
16	239.49	241.01	242.55	243.18	243.55	244.30	243.88	244.03	245.76	247.12	248.74	250.46
17	240.00	240.76	242.58	243.29	243.73	244.26	243.66	244.19	245.98	247.24	248.87	250.60
18	240.20	240.98	242.53	243.26	243.84	244.40	243.40	244.07	246.19	247.18	248.94	250.67
19	240.09	241.24	242.51	243.20	243.84	244.45	243.74	244.07	246.29	247.33	248.94	250.30
20	240.04	241.18	242.66	243.21	243.81	244.34	243.79	244.01	246.28	247.34	249.12	250.15
21	239.79	241.25	242.64	243.05	243.87	244.37	243.66	244.29	246.24	247.25	249.19	250.48
22	240.01	241.52	242.56	243.08	243.80	244.27	243.69	244.65	246.27	247.30	249.06	250.51
23	240.03	241.54	242.62	243.11	244.09	244.09	243.91	244.69	246.24	247.32	249.35	250.36
24	240.06	241.47	242.57	243.19	244.09	244.29	244.02	244.61	246.19	247.30	249.57	250.16
25	240.05	241.38	242.53	243.31	244.15	244.23	243.98	244.76	246.36	247.52	249.75	250.49
26 27 28 29 30 31	240.01 240.09 240.21 240.66 240.80 240.53	241.27 241.38 241.49 241.58 241.75	242.68 242.64 242.46 242.48 242.67 242.81	243.36 243.39 243.31 243.50 243.44 243.40	244.09 244.04 244.10 244.04	244.10 243.97 244.11 244.20 244.08 244.16	243.93 243.74 243.64 243.63 243.24	244.70 244.74 244.81 244.87 244.92 245.12	246.32 246.30 246.36 246.43 246.20	247.52 247.45 247.46 247.40 247.51 247.48	249.79 249.69 249.62 249.89 249.94 249.92	250.60 250.91 250.95 250.78 250.84
LOW	240.80	241.75	242.81	243.50	244.15	244.45	244.11	245.12	246.43	247.52	249.94	250.95

SITE NUMBER 47—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993 DAILY LOWEST VALUES

					DA	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	250.78 250.68 250.53 250.51 250.79	249.55 249.32 249.63 249.65 249.52	247.51 247.51 247.49 247.51 247.45	245.87 245.46 245.64 245.60 245.70	244.73 244.69 244.91 244.84 244.72	244.02 244.09 244.27 244.26 244.20	244.12 244.02 244.13 244.04 243.76	245.45 245.41 245.38 245.37 245.63	246.67 246.84 246.91 246.91 246.74	246.84 246.82 246.47 246.49 246.64	247.01 246.91 247.05 247.00 246.96	246.63 246.80 246.80 246.66 246.61
6 7 8 9 10	250.78 250.77 250.61 250.49 250.49	249.51 249.46 249.15 249.24 249.28	247.13 247.12 246.96 246.91 246.93	245.67 245.50 245.66 245.67 245.59	244.60 244.49 244.49 244.36 244.52	244.18 244.13 244.15 244.27 244.33	243.88 244.00 243.94 243.76 243.85	245.62 245.51 245.74 246.17 246.37	246.82 246.59 246.59 246.85 246.84	246.75 246.71 246.76 246.82 246.91	246.94 246.74 246.81 246.97 247.00	246.60 246.52 246.40 246.34 246.34
11 12 13 14 15	250.52 250.53 250.28 250.31 250.44	249.28 249.22 249.20 249.04 248.92	246.77 246.78 246.86 246.80 246.41	245.20 245.35 245.37 245.23 245.00	244.49 244.27 244.36 244.42 244.46	244.37 244.50 244.24 243.96 243.89	243.91 244.02 244.03 244.11 244.10	246.36 246.33 246.28 246.25 246.38	246.74 246.77 246.97 247.12 246.95	247.01 246.83 246.96 247.05 246.85	247.01 247.24 247.12 247.12 247.20	245.88 245.83 245.99 245.96 245.81
16 17 18 19 20	250.46 250.23 250.24 249.90 249.92	248.66 248.62 248.56 248.54 248.36	246.51 246.41 246.32 246.39 246.35	245.17 245.08 245.11 245.02 244.88	244.61 244.57 244.38 244.15 243.92	244.46 244.37 243.92 244.34 244.32	244.16 244.21 244.07 244.57 244.81	246.43 246.47 246.59 246.62 246.55	246.86 247.10 247.09 246.96 246.92	246.81 246.96 246.95 247.06 246.90	247.15 247.20 247.28 247.31 247.31	245.84 245.85 245.73 245.49 245.43
21 22 23 24 25	249.79 250.15 250.20 250.16 249.98	248.35 248.10 248.16 248.22 248.22	246.16 246.24 246.57 246.30 246.29	244.99 244.95 245.08 245.06 244.88	244.09 244.22 244.26 244.23 244.23	244.22 244.21 244.00 244.03 244.05	244.82 244.54 244.39 244.80 245.03	246.44 246.47 246.59 246.82 246.81	246.88 246.66 246.71 246.83 246.92	246.72 246.68 246.63 246.58 246.69	247.14 246.90 247.01 246.95 247.08	245.35 245.43 245.41 245.21 245.07
26 27 28 29 30 31	249.98 249.86 249.89 249.70 249.46 249.49	248.16 248.09 247.68 247.75 247.61	246.14 246.11 246.15 245.96 246.10 246.14	244.85 244.70 245.00 244.94 244.80 244.83	244.22 244.21 244.11 	244.04 243.85 243.99 244.00 244.11 244.21	244.92 245.08 245.27 245.24 245.36	246.65 246.72 246.80 246.73 246.92 246.89	246.89 246.78 246.79 246.74 246.89	246.71 246.70 246.88 246.84 246.81 246.92	247.19 247.28 246.98 246.92 247.08 247.00	245.23 245.03 245.15 245.07 244.65
LOW	250.79	249.65	247.51	245.87	244.91	244.50	245.36	246.92	247.12	247.06	247.31	246.80
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1993 T	O SEPTEMB	ER 1994	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3	244.69	251.59	238.43	236.61	235.80 235.71	235.63	235.49	235.33	236.37	238.55	240 21	
4 5	244.71 244.62 244.46 244.31	249.39 245.84 243.99 243.46	238.40 238.42 238.13 238.16	236.61 236.50 236.52 236.11	235.77 235.70 235.60	235.61 235.54 235.46 235.56	235.56 235.46 235.44 235.41	235.32 235.36 235.43 235.44	236.54 236.52 236.41 236.61	238.58 238.65 238.67 238.92	240.31 240.33 240.47 240.75 240.63	242.82 242.81 242.70 242.90 243.07
4	244.62 244.46	245.84 243.99	238.42 238.13	236.50 236.52	235.77 235.70	235.54 235.46	235.46 235.44	235.36 235.43	236.54 236.52 236.41	238.58 238.65 238.67	240.33 240.47 240.75	242.81 242.70 242.90
4 5 6 7 8 9	244.62 244.46 244.31 244.18 244.13 244.35 244.06 243.92 243.87	245.84 243.99 243.46 242.66 241.86 241.62 241.42 241.19 240.81 240.47	238.42 238.13 238.16 238.16 237.85 237.68 237.84	236.50 236.52 236.11 236.48 236.29 236.22 236.36 236.35 236.29	235.77 235.70 235.60 235.88 235.85 235.71 235.71	235.54 235.46 235.56 235.76 235.73 235.65 235.55 235.79 235.87	235.46 235.44 235.30 235.20 235.24 235.33 235.50 235.55 235.39	235.36 235.43 235.44 235.50 235.48 235.44 235.51 235.40 235.57 235.46	236.54 236.52 236.41 236.61 236.56 236.66 236.89 237.02	238.58 238.65 238.67 238.92 238.93 239.14 239.21 239.24 239.12	240.33 240.47 240.75 240.63 240.48 240.77 240.84 240.86 241.06	242.81 242.70 242.90 243.07 243.07 242.92 242.89 242.80
4 5 6 7 8 9 10 11 12 13 14	244.62 244.46 244.31 244.13 244.35 244.06 243.92 243.87 243.83 243.71	245.84 243.99 243.46 242.66 241.86 241.62 241.42 241.19 240.81 240.47 240.34	238.42 238.13 238.16 238.16 237.85 237.68 237.84 237.75 237.40 237.63 237.63	236.50 236.52 236.11 236.48 236.40 236.29 236.22 236.36 236.35 236.29 236.22 236.22	235.77 235.60 235.88 235.85 235.71 235.71 235.56 235.66 235.79 235.80 235.72	235.54 235.46 235.56 235.76 235.73 235.65 235.55 235.79 235.87 235.73 235.55	235.46 235.44 235.30 235.20 235.24 235.33 235.50 235.55 235.39 235.02 235.19	235.36 235.43 235.44 235.50 235.48 235.44 235.51 235.40 235.57 235.46 235.25	236.54 236.52 236.41 236.66 236.66 237.02 237.06 237.02 236.92 236.88 237.01	238.58 238.65 238.67 238.92 238.93 239.14 239.21 239.24 239.12 239.30 239.27 239.41 239.41	240.33 240.47 240.75 240.63 240.48 240.77 240.84 240.86 241.06 241.07 241.28 241.28	242.81 242.70 242.90 243.07 243.07 242.92 242.89 242.81 242.81 242.86 242.93 243.00 242.92
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	244.62 244.46 244.31 244.13 244.35 244.06 243.92 243.87 243.57 243.57 243.57 243.57	245.84 243.99 243.46 242.66 241.86 241.62 241.42 241.19 240.81 240.47 240.34 240.20 240.00 240.00 239.66 239.69	238.42 238.13 238.16 237.85 237.68 237.84 237.75 237.40 237.63 237.63 237.40 237.41 237.19	236.50 236.52 236.11 236.48 236.29 236.22 236.36 236.25 236.25 236.27 236.27 236.24 236.21 236.21 236.21	235.77 235.60 235.88 235.85 235.71 235.71 235.56 235.66 235.79 235.80 235.72 235.73	235.54 235.46 235.56 235.69 235.73 235.65 235.55 235.55 235.55 235.59 235.59 235.59	235.46 235.44 235.30 235.20 235.24 235.33 235.50 235.55 235.39 235.02 235.19 235.30 235.41 235.34	235.36 235.43 235.50 235.48 235.51 235.40 235.57 235.46 235.25 235.40 235.57 235.31 235.31 235.57	236.54 236.52 236.41 236.66 236.66 236.89 237.02 237.06 237.02 236.92 236.88 237.01 237.31 237.44 237.61 237.68 237.68	238.58 238.65 238.67 238.92 238.93 239.14 239.21 239.22 239.30 239.27 239.41 239.46 239.60 239.62	240.33 240.47 240.75 240.63 240.84 240.86 241.06 241.07 241.02 241.28 241.43 241.33 241.51 241.58 241.73	242.81 242.70 242.90 243.07 242.92 242.89 242.81 242.86 242.93 243.00 242.92 243.21 243.41 243.44 243.37 243.40
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	244.62 244.46 244.31 244.13 244.35 244.06 243.92 243.87 243.57 243.57 243.57 243.57 243.33 243.40 243.31 243.26 243.38	245.84 243.99 243.46 242.66 241.86 241.42 241.19 240.81 240.34 240.34 240.00 240.00 239.66 239.69 239.43 239.14 239.15 239.33 239.22 238.68 238.73 238.72 238.48	238.42 238.13 238.16 237.85 237.68 237.84 237.75 237.40 237.63 237.63 237.46 237.41 237.19 237.14 237.18 237.14 237.18 237.09 237.07	236.50 236.52 236.11 236.48 236.29 236.22 236.36 236.25 236.25 236.27 236.14 236.21 236.16 236.21 236.16 236.21 236.59 236.21	235.77 235.76 235.88 235.85 235.71 235.71 235.56 235.66 235.79 235.73 235.64 235.52 235.04 235.57 235.68 235.65 235.77 235.76 235.68 235.65 235.65 235.65 235.65 235.65	235.54 235.46 235.56 235.69 235.73 235.65 235.79 235.87 235.55 235.59 235.25 235.25 235.25 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26 235.26	235.46 235.44 235.30 235.20 235.24 235.33 235.50 235.55 235.39 235.41 235.30 235.41 235.39 235.40 235.39 235.40 235.40 235.40 235.40 235.40 235.40 235.40	235.36 235.43 235.50 235.48 235.51 235.40 235.57 235.46 235.25 235.40 235.57 235.57 235.60 235.74 235.89 235.89 235.99 235.99 235.99 235.88 236.03 236.01 235.88	236.54 236.52 236.41 236.66 236.66 236.89 237.06 237.02 236.88 237.01 237.44 237.61 237.68 237.98 237.98 237.98 237.98 238.04 238.14 238.14 238.46 238.46 238.46	238.58 238.65 238.67 238.92 238.93 239.14 239.21 239.27 239.41 239.42 239.46 239.60 239.62 239.44 239.61 239.96 239.95 239.95 239.95 240.06 240.07 240.01	240.33 240.47 240.75 240.63 240.86 240.77 240.86 241.06 241.07 241.02 241.28 241.43 241.33 241.51 241.58 241.73 241.81 241.71 241.66 241.98 242.01 242.23 242.40 242.32 242.40	242.81 242.70 243.07 243.07 242.92 242.89 242.81 242.81 242.86 242.93 243.21 243.41 243.44 243.37 243.40 243.41 243.61 243.61 243.66 243.66 243.66 243.66 243.66 243.61
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 29 29 20 20 21 21 22 23 24 24 25 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	244.62 244.46 244.31 244.13 244.31 244.35 244.06 243.87 243.87 243.57 243.53 243.40 243.31 243.26 243.38 243.25	245.84 243.99 243.46 242.66 241.86 241.42 241.19 240.81 240.34 240.34 240.00 240.00 239.66 239.69 239.43 239.15 239.33 239.29 239.22 238.95 238.68 238.73 238.73 238.73	238.42 238.13 238.16 237.85 237.68 237.84 237.75 237.40 237.63 237.46 237.43 237.41 237.19 237.14 237.18 237.14 237.19 237.10 237.10 237.10 237.10	236.50 236.52 236.11 236.48 236.40 236.29 236.36 236.35 236.29 236.27 236.27 236.14 236.21 236.16 236.21 236.19 236.21 236.593 235.93 235.93 235.93 235.93 235.93 235.93	235.77 235.60 235.88 235.85.71 235.76 235.66 235.79 235.73 235.64 235.51 235.77 235.65 235.65 235.77 235.67 235.68 235.65 235.77	235.54 235.56 235.56 235.76 235.73 235.65 235.79 235.87 235.55 235.59 235.28 235.25 235.25 235.25 235.25 235.25 235.25 235.25 235.25 235.25 235.25 235.56 235.56 235.56 235.56 235.56 235.56	235.46 235.41 235.30 235.20 235.24 235.33 235.55 235.55 235.39 235.19 235.41 235.24 235.30 235.41 235.24 235.39 235.40 235.41 235.39 235.40 235.40 235.41 235.37 235.55	235.36 235.43 235.50 235.48 235.44 235.51 235.40 235.57 235.40 235.57 235.40 235.31 235.57 235.60 235.74 235.81 235.89 235.89 235.89 235.89 235.88 236.03 235.88	236.54 236.52 236.41 236.66 236.66 237.02 237.02 237.02 236.88 237.01 237.31 237.44 237.61 237.68 237.69 237.98 237.98 237.98 238.04 238.14 238.14 238.42 238.42	238.58 238.65 238.67 238.92 238.93 239.14 239.21 239.24 239.40 239.41 239.46 239.46 239.60 239.67 239.80 239.80 239.96 239.95 239.99 240.06 240.07 240.01 240.01	240.33 240.47 240.75 240.63 240.86 241.06 241.06 241.02 241.28 241.43 241.33 241.33 241.51 241.58 241.73 241.81 241.66 241.98 242.01 242.15 242.31 242.31 242.31	242.81 242.70 243.07 243.07 242.92 242.89 242.80 242.81 242.86 242.93 243.21 243.41 243.41 243.41 243.41 243.61 243.66 243.66 243.58 243.61 243.63

SITE NUMBER 47—Continued WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES NOV DEC JAN FEB MAR APR MAY JUN JUL DAY OCT AUG SEP

1 2 3 4 5	243.80 243.84 244.22 244.23 244.04	242.36 242.59 242.59 242.53 242.52	240.38 240.35 240.33 240.50 240.50	239.11 239.14 239.14 239.12 238.54	237.94 238.24 238.34 238.15 238.15	238.11 237.94 237.65 237.61 237.63	237.41 237.36 237.54 237.52 237.21	237.41 237.11 237.25 237.31 237.24	236.50 236.47 236.43 236.37 236.16	236.19 235.96 235.74 235.91 236.07	237.66 237.61 237.79 237.80 237.74	239.90 239.88 239.88 239.98 239.89
6 7 8 9 10	243.80 244.18 244.21 244.18 244.01	242.55 242.36 242.43 242.36 242.10	240.35 240.25 240.29 240.13 240.22	238.57 238.60 238.62 238.56 238.43	238.10 238.22 238.11 237.94 237.90	237.78 237.85 237.74 237.43 237.39	237.22 237.15 237.13 237.41 237.46	237.03 236.94 236.80 237.09 237.16	236.10 236.40 236.47 236.39 236.49	236.19 236.19 236.24 236.15 236.21	237.68 237.78 237.99 238.14 238.10	240.19 240.25 240.07 240.11 240.05
11 12 13 14 15	243.91 244.02 244.07 243.73 243.36	241.96 241.86 242.05 242.22 242.19	239.92 239.94 239.87 239.70 239.68	238.36 238.52 238.59 238.52 238.31	237.97 238.01 238.01 237.64 237.67	237.30 237.39 237.71 237.81 237.78	237.36 237.47 237.45 237.14 237.32	236.97 236.57 236.98 237.19 236.96	236.45 236.34 236.15 236.06 235.96	236.10 236.10 236.17 236.36 236.39	238.11 238.31 238.41 238.53 238.47	239.93 239.97 240.19 240.25 239.87
16 17 18 19 20	243.49 243.49 243.49 243.49 243.41	241.64 241.51 241.69 241.69 241.39	239.63 239.70 239.66 239.46 239.47	238.24 238.40 238.50 238.53 238.57	237.83 237.77 237.97 237.97 238.00	237.78 237.78 237.61 237.31 237.32	237.51 237.37 237.35 237.29 237.18	236.94 236.94 236.91 237.03 236.99	235.94 235.98 235.99 235.99 235.93	236.51 236.57 236.58 236.69 236.76	238.51 238.62 239.11 239.27 239.27	240.12 240.02 240.16 240.31 240.46
21 22 23 24 25	243.28 243.28 243.30 243.36 243.27	241.63 241.65 241.52 241.15 241.08	239.57 239.61 239.40 239.12 239.14	238.55 238.45 238.36 238.43 238.37	237.79 237.80 238.01 237.90 237.66	237.13 237.34 237.40 237.23 237.50	237.56 237.56 237.45 237.41 237.40	236.84 236.99 236.98 236.97 236.96	235.98 236.06 236.20 236.22 236.20	236.81 236.93 236.99 237.10 237.15	239.35 239.41 239.46 239.34 239.59	240.55 240.35 240.31 240.31 240.18
26 27 28 29 30 31	242.98 242.68 242.77 242.87 242.85 242.75	240.63 240.52 240.71 240.74 240.59	239.11 239.17 239.09 239.11 239.19 239.17	238.18 238.30 238.53 238.53 238.28 238.07	237.85 238.11 238.11 	237.55 237.72 237.74 237.74 237.61 237.48	237.46 237.38 237.29 237.42 237.34	236.74 236.68 236.85 236.82 236.70 236.54	236.16 236.35 236.39 236.37	237.13 237.29 237.52 237.46 237.62 237.75	239.65 239.69 239.77 239.71 239.86 239.95	240.00 239.95 239.93 239.73 239.82
LOW	244.23	242.59	240.50	239.14	238.34	238.11	237.56	237.41	236.50	237.75	239.95	240.55
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF			EAR OCTOE	ER 1995 T	O SEPTEME	BER 1996	
					D	ATTA TOME?	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	AILY LOWES MAR	APR	MAY	JUN	JUL	AUG	SEP
DAY 1 2 3 4 5	OCT 239.78 239.80 239.65 239.28 239.52	NOV 236.91 236.90 236.87 236.79 236.37	DEC 234.48 234.57 234.71 234.45 234.54	JAN 233.69 233.69 233.21 233.63 233.64				MAY 231.96 231.92 231.93 232.08 232.12	JUN 231.77 231.91 231.87 231.60 231.55	JUL 232.00 232.03 231.95 231.95 232.07	AUG 233.71 233.66 233.63 233.70 233.84	SEP 236.52 236.63 236.70 236.76 236.67
1 2 3 4	239.78 239.80 239.65 239.28	236.91 236.90 236.87 236.79	234.48 234.57 234.71 234.45	233.69 233.69 233.21 233.63	FEB 232.93 232.93 232.91 232.82	MAR 232.18 232.26 232.20 232.20	APR 232.14 231.86 232.26 232.43	231.96 231.92 231.93 232.08	231.77 231.91 231.87 231.60	232.00 232.03 231.95 231.95	233.71 233.66 233.63 233.70	236.52 236.63 236.70 236.76
1 2 3 4 5 6 7 8 9	239.78 239.80 239.65 239.28 239.52 239.51 239.27 239.08 239.01	236.91 236.90 236.87 236.79 236.37 236.38 236.50 236.51 235.86	234.48 234.57 234.71 234.45 234.54 234.54 234.50 234.58 234.59	233.69 233.69 233.21 233.63 233.64 233.65 233.55 233.26 233.30	FEB 232.93 232.91 232.82 232.72 232.56 232.41 232.47 232.37	MAR 232.18 232.26 232.20 232.42 232.59 232.78 232.78 232.74 232.49	APR 232.14 231.86 232.26 232.43 232.43 232.19 232.05 232.06 232.02	231.96 231.92 231.93 232.08 232.12 232.00 231.92 231.93 232.13	231.77 231.91 231.87 231.60 231.55 231.77 231.80 231.59 231.50	232.00 232.03 231.95 231.95 232.07 232.23 232.26 232.40 232.53	233.71 233.66 233.63 233.70 233.84 234.22 234.49 234.65 234.61	236.52 236.63 236.70 236.76 236.67 236.97 236.97 236.92 236.94
1 2 3 4 5 6 7 8 9 10 11 12 13 14	239.78 239.80 239.65 239.28 239.52 239.51 239.27 239.08 239.01 238.98 238.60 238.69 238.71	236.91 236.90 236.87 236.79 236.37 236.38 236.50 236.51 235.86 236.22 235.89 235.99 235.99	234.48 234.57 234.71 234.45 234.54 234.54 234.59 234.46 234.22 234.04 233.78 234.04	233.69 233.69 233.21 233.63 233.64 233.65 233.55 233.26 233.30 233.19 233.21 233.15 232.96 233.19	FEB 232.93 232.93 232.91 232.82 232.72 232.56 232.41 232.47 232.37 232.81 232.83 232.76 232.51 232.55	MAR 232.18 232.26 232.20 232.42 232.59 232.78 232.74 232.49 232.29 232.18 232.07 232.31 232.28	APR 232.14 231.86 232.26 232.43 232.43 232.19 232.05 232.06 232.02 231.89 232.01 231.95 232.09 232.16	231.96 231.92 231.93 232.08 232.12 232.00 231.92 231.93 232.13 232.17 232.12 232.05 231.93 231.93 231.63	231.77 231.91 231.87 231.60 231.55 231.77 231.80 231.59 231.50 231.56 231.49 231.70 231.64 231.59	232.00 232.03 231.95 231.95 232.07 232.23 232.26 232.40 232.53 232.41 232.60 232.73 232.72 232.76	233.71 233.66 233.63 233.70 233.84 234.22 234.49 234.65 234.61 234.73 234.78 235.08	236.52 236.63 236.70 236.76 236.67 236.97 236.97 236.92 236.94 237.14 237.19 237.10 236.88 236.69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	239.78 239.80 239.65 239.28 239.52 239.51 239.27 239.08 239.01 238.98 238.79 238.60 238.60 238.46 238.25 238.25 238.25	236.91 236.90 236.87 236.79 236.37 236.38 236.50 236.51 235.86 236.22 235.89 235.99 235.99 235.85 235.86 235.68	234.48 234.57 234.71 234.45 234.54 234.50 234.58 234.59 234.46 234.22 234.04 233.78 234.04 234.03	233.69 233.69 233.21 233.63 233.64 233.55 233.55 233.26 233.19 233.15 233.15 233.15 233.15 233.11 233.15 233.19 233.11 233.11 232.96	FEB 232.93 232.93 232.91 232.82 232.72 232.56 232.41 232.47 232.37 232.81 232.83 232.76 232.55 232.72 232.62 232.41 232.16 231.99	MAR 232.18 232.26 232.20 232.42 232.59 232.78 232.74 232.49 232.29 232.18 232.07 232.31 232.28 232.25	APR 232.14 231.86 232.26 232.43 232.19 232.05 232.06 232.02 231.89 232.01 231.95 232.09 232.16 232.16 231.99 231.80 231.80	231.96 231.92 231.93 232.08 232.12 232.00 231.92 231.93 232.17 232.17 232.15 231.63 231.72 231.58 231.52 231.52	231.77 231.87 231.87 231.60 231.55 231.77 231.80 231.59 231.56 231.49 231.64 231.59 231.67 231.67	232.00 232.03 231.95 231.95 232.07 232.23 232.26 232.40 232.53 232.41 232.60 232.73 232.76 232.75 232.76 232.75	233.71 233.66 233.63 233.70 233.84 234.22 234.49 234.65 234.61 234.73 234.78 235.08 235.18 235.19 235.26 235.26 235.26 235.26	236.52 236.63 236.70 236.76 236.67 236.97 236.97 236.92 236.94 237.14 237.19 237.10 236.88 236.69 236.65
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	239.78 239.80 239.65 239.28 239.51 239.91 239.01 238.98 238.60 238.60 238.60 238.25 238.25 238.25 238.25 237.74 237.74 237.74	236.91 236.90 236.87 236.79 236.37 236.38 236.50 236.51 235.86 236.22 235.89 235.89 235.89 235.86 235.68 235.68 235.67 235.66 235.67	234.48 234.57 234.71 234.54 234.54 234.59 234.46 234.22 234.04 233.78 234.04 234.03 233.95 234.17 234.13 234.05 234.13 234.05 234.13 234.05 234.13 234.05 234.13 234.08 234.08 234.08 234.08 234.08 233.93 233.87	233.69 233.69 233.21 233.63 233.64 233.55 233.26 233.30 233.19 233.15 232.96 233.19 233.11 232.78 232.78	FEB 232.93 232.93 232.91 232.82 232.72 232.56 232.41 232.47 232.83 232.76 232.55 232.72 232.62 232.41 232.16 231.99 232.16 232.18 232.01 232.09 232.09	MAR 232.18 232.26 232.20 232.42 232.59 232.78 232.74 232.49 232.29 232.18 232.20 232.18 232.27 232.31 232.28 232.25 232.08 232.21 232.40 232.51 232.47 232.26 232.19 231.92 232.29	APR 232.14 231.86 232.26 232.43 232.19 232.05 232.06 232.02 231.89 232.01 231.95 232.09 232.16 231.99 231.70 231.80 231.88 231.91 232.11 232.19	231.96 231.92 231.93 232.08 232.12 232.00 231.92 231.93 232.17 232.12 232.05 231.93 231.63 231.72 231.58 231.52 231.53 231.54 231.52 231.53	231.77 231.87 231.87 231.60 231.55 231.77 231.80 231.50 231.56 231.49 231.64 231.67 231.65 231.65 231.59 231.67	232.00 232.03 231.95 231.95 232.07 232.23 232.26 232.40 232.53 232.41 232.60 232.73 232.75 232.76 232.75 232.76 232.75 232.85 232.96 233.05 233.05	233.71 233.66 233.63 233.70 233.84 234.22 234.49 234.61 234.61 234.61 235.08 235.18 235.19 235.26 235.23 235.26 235.57 235.96 236.06 236.06 236.06	236.52 236.63 236.70 236.76 236.67 236.97 236.92 236.94 237.14 237.19 237.10 236.85 236.65 236.85 236.85 236.85 236.85 236.75 236.98 236.75 236.98

SITE NUMBER 47—Continued

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LOW

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 234.61 232.97 231.58 231.61 236.80 236.19 231.94 231.50 230.96 232.16 234.89 231.42 231.54 236.98 236.21 234.62 232.81 231.96 231.66 231.26 231.74 232.45 234.86 ---232.73 235.95 234.64 232.08 231.34 231.86 232.62 234.90 ---236.75 231.54 236.55 232.22 231.71 234.56 232.98 231.03 234.99 235.84 231.26 231.83 232.65 236.54 235.81 234.19 233.13 232.20 231.82 231.10 231.34 231.67 232.71 234.96 ___ 235.80 233.11 232.11 231.48 231.78 236.66 236.06 234.46 232.89 232 11 231.52 231.73 231.14 231.70 232.75 234.82 ___ 232.83 231.71 231.72 231.43 231.36 236.57 236.75 236.05 234.43 232.04 231.81 231.71 232.88 234.46 ---231.63 235.94 234.14 232.72 231.98 231.86 234.69 232.82 236.72 235.92 233.98 232.79 232.02 231.59 231.69 231.12 231.80 232.84 234.78 231.64 236.40 236.02 232.96 231.90 231.60 231.66 231.28 234.10 234.67 232.99 236.02 234.10 231.87 231.55 231.53 231.70 233.09 234.70 236.53 231.13 231.74 231.78 231.40 231.29 231.77 231.77 ___ 236.53 235.94 234.15 232.94 231.81 230.95 233.31 234 60 235.71 236.46 234.30 232.50 231.82 231.08 233.49 234.31 236.46 235.39 234.32 232.77 231.90 231.63 231.60 231.10 231.74 233.55 234.22 236.36 235.43 232.78 231.82 230.99 231.79 233.85 231.35 231.58 233.59 234.53 232.59 231.61 231.73 231.44 230.95 231.87 233.70 236.52 235.39 233.96 232.49 231.82 231.84 231.26 231.22 231.83 233.83 234.43 ___ ---235.15 233.81 232.45 231.68 231.25 234.06 236.01 231.81 231.19 231.82 234.47 234.51 236.32 235.37 233.54 232.23 231.76 231.56 231.20 231.32 231.85 234.15 236.49 235.34 233.50 232.05 231.80 231.61 231.15 231.23 231.86 234.28 234.46 232.03 231.61 235.25 233.56 232.15 231.29 231.34 231.77 234.28 236.33 235.57 233.73 232.07 232.07 231.60 231.29 231.45 231.91 234.28 234.36 ---236.29 235.56 233.71 232.33 232.09 231.59 231.41 231.35 232.01 234.35 234.27 ---236.01 235.45 233.57 232.35 231.76 231.59 231.38 232.13 234.37 234.29 231.41 235.45 232.22 231.50 231.43 231.60 236.63 233.49 231.43 232.07 234.49 236.64 235.41 232.97 232.40 231.28 231.18 231.28 231.79 231.91 234.73 236.48 234.98 233.17 232.29 231.38 231.31 231.05 231.74 232.01 234.89 ___ ___ ------236.16 234.79 233.17 232.23 ---231.54 231.08 231.72 232.05 234.95 236.27 233.19 231.49 234.81 231.93 231.07 231.78 232.11 234.85 231.28 ___ 236.31 231.74 232.22 234.95 236.98 236.21 234.64 233.13 231.84 231.81 231.79 232.13 234.99 ---

WATER LEVEL,	IN	FEET	BELOW	LAND-SURFACE	DATUM,	WATER	YEAR	OCTOBER	1997	TO	SEPTEMBER	1998
				DAILY	LOWEST	VALUE	S					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	235.35 235.37 235.39	234.63 234.65 234.66 234.57 234.61	233.12 233.20 233.20 233.11 233.15	232.24 232.28 232.42 232.23 232.31	232.05 232.27 232.23 232.02 232.22	232.22 232.24 232.10 232.08 232.16	231.83 232.00 232.03 231.96 231.71	231.66 231.70 231.65 231.74 231.71	233.08 233.42 233.45 233.49 233.61	233.86 233.77 233.86 233.87 233.77	234.95 235.05 235.15 235.35 235.35	235.49 235.28 235.35 235.46 235.53
6 7 8 9	235.53 235.33 235.41 235.55 235.49	234.50 234.27 234.45 234.50 234.38	232.97 232.60 232.47 232.79 233.06	232.40 232.32 232.22 232.34 232.32	232.19 232.07 232.04 232.25 232.28	232.11 232.30 232.40 232.42 232.69	231.77 231.89 231.99 232.00 232.00	231.88 231.95 232.05 232.16 232.22	233.72 233.68 233.58 233.74 233.55	233.91 234.00 234.02 233.99 233.98	235.20 235.08 235.10 235.22 235.16	235.74 235.75 235.63 235.57 235.74
11 12 13 14 15	235.17 235.43 235.64 235.78 235.88	234.21 234.09 233.98 234.27 234.27	233.04 233.01 232.92 232.84 232.68	232.28 232.31 232.31 232.19 232.06	232.28 232.28 232.16 232.11 231.89	232.69 232.20 232.24 232.24 232.15	231.81 231.46 231.72 231.76 231.82	232.15 232.22 232.16 232.29 232.51	233.59 233.72 233.65 233.75 233.71	233.86 233.93 233.87 233.92 234.15	235.15 235.20 235.19 235.15 235.04	235.92 235.94 235.92 236.11 236.24
16 17 18 19 20	235.88 235.59 235.56 235.64 235.60	234.14 233.97 233.89 233.84 233.64	232.70 232.49 232.57 232.75 232.66	232.09 232.15 232.24 232.18 232.18	232.04 232.05 232.20 232.24 232.19	232.04 231.91 232.12 232.15 232.09	231.87 231.83 231.83 231.91 231.99	232.62 232.53 232.78 232.89 232.86	233.59 233.62 233.63 233.68 233.75	234.20 234.19 234.08 234.23 234.24	234.96 235.16 235.15 235.31 235.44	236.23 236.19 236.13 236.18 236.40
21 22 23 24 25	235.58 235.25 234.94 235.29 235.35	233.57 233.67 233.62 233.48 233.54	232.37 232.55 232.46 232.53 232.56	232.23 232.19 232.24 232.15 232.29	232.08 232.08 232.24 232.22 231.73	232.01 231.99 231.97 231.84 231.70	231.98 231.95 231.77 231.45 231.57	232.78 232.80 232.85 233.06 233.09	233.90 233.95 233.76 233.66 233.64	234.47 234.62 234.64 234.64 234.71	235.35 235.25 235.20 235.28 235.31	236.46 236.47 236.39 236.33 236.21
26 27 28 29 30 31	235.16 234.81 234.82 234.70 234.49 234.51	233.54 233.22 233.34 233.38 233.38	232.56 232.45 232.41 232.39 232.58 232.58	232.29 232.27 232.27 232.27 232.06 232.10	231.87 232.05 232.12 	231.66 231.74 231.75 231.74 231.83 231.75	231.79 231.98 231.92 231.75 231.61	232.93 232.96 233.18 233.17 233.10 233.26	233.61 233.69 233.77 233.81 233.90	234.79 234.80 234.84 234.87 234.99 234.99	235.18 235.37 235.43 235.45 235.34 235.47	236.37 236.44 236.29 236.32 236.52
LOW	235.88	234.66	233.20	232.42	232.28	232.69	232.03	233.26	233.95	234.99	235.47	236.52

SITE NUMBER FROM LOCATION MAP.—48.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1N6E35AADD.

SITE ID (STATION NUMBER).—440023103211001.

OTHER IDENTIFIERS.—PE-95D and Countryside West.

LOCATION.—Lat 44°00′22.9″, long 103°21′10.2″, in SE¹/4SE¹/4NE¹/4NE¹/4 sec. 35, T. 1 N., R. 6 E., Hydrologic Unit 10120110, 5.5 mi southwest of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Precambrian.

WELL CHARACTERISTICS.—Drilled observation well, 375 ft deep with 282 ft of 5-in. steel casing; open hole from 282 to 375 ft.

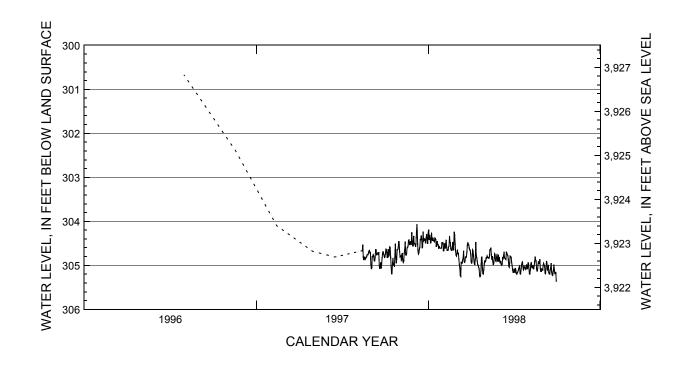
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 4,227.5 ft above sea level. Measuring point: Top of steel casing, 2.0 ft above land-surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—July 1996 to September 1998.

EXTREMES.—Highest daily water level, 300.67 ft (estimated) below land-surface datum, July 31, 1996; lowest daily water level, 305.08 ft below land-surface datum, Sept. 20, 1997.



SITE NUMBER 48—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ___ 2 ___ --___ ---___ ___ ---___ ---___ ___ ___ ------___ ___ ___ ___ ___ ___ ---___ ___ 5 ------------------------___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------8 10 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 12 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------13 15 ------------------------------------16 ___ ___ ___ ___ ___ ___ 17 ------------------------------------___ ------___ ------___ ___ ---___ ___ ___ 18 20 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 21 22 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ---------------------23 ---------------24 25 ------------26 27 ---------------------------------------___ ___ ___ 2.8 ___ ___ ___ ___ ___ ___ ___ ___ ---------___ ------29 30 -----e300.67 31 ___ ---------___ ___ ---___ ___ ------LOW 300.67 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 304.98 2 ---------------------------------305.07 ___ ___ ___ 3 ___ ___ ___ ___ ___ ___ ___ ___ 305.06 ---------------------___ ---------304.80 4 304.80 6 304.76 ___ ___ ------------------___ ---304.78 ------------304.89 304.90 8 ---------------------------------10 304.83 11 304.64 ------------304.64 304.67 304.76 304.76 13 ___ ___ ___ ___ e304.10 ___ ___ ___ ___ ___ ---___ ---14 304.67 304.53 304.74 15 16 ---304.82 304.72 ---___ ___ ___ --e304.81 ---304.88 18 ___ e302 40 ___ ___ ___ ___ ___ ___ ___ 304.81 304.70 ---------------___ ------304.81 305.01 19 20 304.86 21 304.84 305.02 22 ___ ---------------___ ___ ------304.82 304.93 ___ ---304.81 304.76 305.07 304.99 23 --24 25 304.76 304.84 26 ---304.76 304.72 ___ 2.8 ___ ___ ___ ___ ___ ___ ___ ___ ___ 304.67 304.74 ---------------------------304.77 29 304.66 304.72 30 e304.68 304.82 31 ---------------------304.71

302.40

304.10

304.68

LOW

304.88

305.08

304.81

e Estimated

SITE NUMBER 48—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

					-	TELE DOME.	JI 11110110					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304.81	304.68	304.33	304.25	304.49	304.77	304.73	304.89	304.81	305.16	304.93	305.11
2	304.73	304.81	304.51	304.19	304.67	304.79	304.91	304.92	304.91	305.08	304.97	305.00
3	304.62	304.80	304.51	304.42	304.67	304.73	304.96	304.90	304.95	305.15	305.07	304.96
4	304.65	304.78	304.52	304.31	304.50	304.64	304.91	304.83	304.90	305.16	305.20	304.99
5	304.72	304.88	304.58	304.39	304.61	304.73	304.65	304.84	304.98	305.06	305.20	305.01
6	304.83	304.86	304.50	304.50	304.61	304.73	304.67	304.79	305.00	305.11	305.09	305.18
7	304.72	304.72	304.24	304.47	304.51	304.87	304.78	304.82	304.98	305.18	304.96	305.19
8	304.63	304.88	304.06	304.26	304.42	304.99	304.91	304.82	304.83	305.20	304.93	305.06
9	304.79	304.93	304.38	304.40	304.58	305.06	304.97	304.84	304.85	305.17	305.05	304.90
10	304.77	304.91	304.66	304.44	304.66	305.23	304.99	304.84	304.78	305.15	305.05	304.96
11	304.58	304.72	304.74	304.37	304.66	305.25	304.86	304.78	304.69	305.12	305.01	305.10
12	304.59	304.65	304.72	304.44	304.66	304.92	304.47	304.64	304.83	305.08	305.08	305.08
13	304.82	304.46	304.63	304.44	304.58	304.95	304.78	304.64	304.84	305.04	305.08	304.99
14	305.02	304.76	304.59	304.46	304.56	304.95	304.82	304.60	304.86	305.02	305.01	305.17
15	305.19	304.77	304.40	304.38	304.33	304.87	304.90	304.77	304.87	305.19	304.93	305.20
16	305.19	304.74	304.43	304.39	304.47	304.84	304.98	304.87	304.69	305.20	304.80	305.20
17	304.96	304.61	304.32	304.41	304.48	304.67	305.00	304.79	304.73	305.10	304.88	305.10
18	304.83	304.58	304.39	304.58	304.63	304.91	305.04	304.91	304.76	305.01	304.89	305.06
19	304.98	304.58	304.61	304.54	304.66	304.93	305.08	304.99	304.78	304.95	305.07	304.95
20	305.01	304.43	304.58	304.45	304.66	304.92	305.23	304.95	304.87	304.91	305.14	305.15
21	305.02	304.42	304.23	304.53	304.58	304.81	305.26	304.84	305.02	305.04	305.11	305.22
22	304.81	304.53	304.44	304.53	304.47	304.82	305.25	304.74	305.04	305.10	304.99	305.23
23	304.51	304.53	304.42	304.62	304.65	304.81	305.11	304.76	304.95	305.08	304.91	305.16
24	304.82	304.45	304.40	304.56	304.65	304.70	304.83	304.90	304.79	305.03	304.95	305.11
25	304.95	304.48	304.42	304.60	304.24	304.54	304.80	304.91	304.80	305.05	304.96	304.98
26 27 28 29 30 31	304.86 304.64 304.64 304.61 304.46	304.53 304.25 304.44 304.56 304.56	304.50 304.41 304.35 304.29 304.50 304.50	304.61 304.61 304.61 304.61 304.47 304.50	304.30 304.51 304.66 	304.48 304.52 304.54 304.61 304.65 304.65	305.07 305.19 305.20 305.09 304.96	304.82 304.74 304.88 304.92 304.76 304.91	304.81 304.92 305.00 305.09 305.16	305.06 305.09 305.00 304.99 305.08 305.07	304.86 305.07 305.14 305.14 305.07 305.11	305.11 305.20 305.16 305.16 305.37
LOW	305.19	304.93	304.74	304.62	304.67	305.25	305.26	304.99	305.16	305.20	305.20	305.37

SITE NUMBER FROM LOCATION MAP.—C1.

COUNTY.—Pennington.

LOCAL NUMBER.—1N6E13DDD.

SITE ID (STATION NUMBER).—440228103195701.

LOCATION.—Lat 44°02′23″, long 103°19′57″, in SE¹/4SE¹/4SE¹/4 sec. 13, T. 1 N., R. 6 E., Hydrologic Unit 10120110. Owner: private.

AQUIFER.—Madison.

SITE CHARACTERISTICS.—Pool of water in cave about 100 ft below cave entrance.

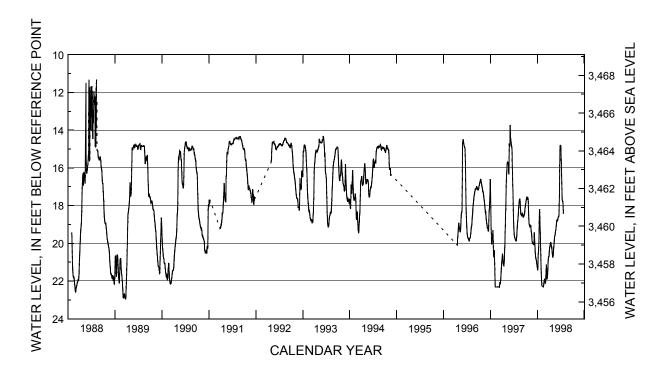
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land surface at cave entrance is about 3,550 ft above sea level. Measuring point: Staff gage with 0.0 being 21.71 ft below a brass cap reference point with elevation of about 3,479.2 ft above sea level.

REMARKS.—Current records good.

PERIOD OF RECORD.—January 1988 to September 1998.

EXTREMES.—Highest daily water level, 11.33 ft below reference point, Aug. 10, 1988; lowest daily water level, 22.96 ft below reference point, Mar. 22-23, 1989.



SITE	NUMBE	R C1—C	ontinued									
		WATER LEV	EL, IN FE	ET BELOW		E POINT,		R OCTOBER	1994 TO	SEPTEMBER	1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.09	15.07										
2	15.04	15.21										
3 4	15.07 15.07	15.31 15.49										
5	15.07	15.76										
-												
6	15.17	15.89										
7 8	15.21 15.16	16.04 16.09										
9	15.09	16.09										
10	15.06	16.07										
1.1	15 01	16.06										
11 12	15.01 14.97	16.06 16.05										
13	14.98	16.02										
14	14.90	16.04										
15	14.88	16.19										
16	14.84	16.40										
17	14.79	16.40										
18	14.82	16.35										
19 20	14.86 14.90											
20	14.90											
21	14.93											
22	14.96											
23 24	14.98 15.00											
25	14.98											
26	14.99											
27 28	15.00 15.03											
29	15.04											
30	15.04											
31	15.05											
LOW	15.21	16.40										
		WATER LEV	EL, IN FE	ET BELOW		E POINT, LLY LOWES		R OCTOBER	1995 TO	SEPTEMBER	1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
_												
1 2								18.97 19.05	14.59 14.50	19.13 19.26	19.48 19.42	17.26 17.24
3								19.13	14.49	19.38	19.34	17.22
4								19.20	14.53	19.47	19.27	17.20
5								19.23	14.60	19.54	19.20	17.15
6								19.24	14.67	19.60	19.12	17.12
7	e18.68							19.24	14.71	19.63	19.11	17.11
8								19.31	14.74	19.67	19.09	17.10
9 10								19.38 19.40	14.78 14.82	19.70 19.70	19.05 18.95	17.11 17.14
10								19.40	14.02	19.70	10.93	17.14
11								19.40	14.85	19.74	18.84	17.14
12								19.39	14.87	19.75	18.72	17.13
13 14								19.33 19.23	14.89 14.91	19.76 19.76	18.61 18.53	17.08 17.03
15								19.09	14.92	19.76	18.42	16.99
1.0								10.05	14.05	10 50	10 01	16.00
16 17								18.97 18.78	14.95 14.96	19.79 19.84	18.31 18.21	16.97 17.02
18							20.10	18.66	15.05	19.87	18.10	17.02
19							20.01	18.54	15.34	19.88	18.02	17.03
20							19.86	18.44	15.70	19.88	17.96	17.05
21							19.73	18.39	16.20	19.84	17.86	17.09
22							19.73	18.37	16.65	19.82	17.82	17.13
23							19.55	18.34	17.15	19.76	17.75	17.16
24							19.47	18.34	17.55	19.75	17.69	17.16
25							19.35	18.23	17.90	19.75	17.60	17.12
26							19.28	17.90	18.18	19.75	17.55	17.11
27							19.16	17.47	18.39	19.73	17.50	17.13
28 29							19.04 19.00	15.29 14.69	18.61 18.82	19.69 19.65	17.45 17.42	17.18 17.18
30							18.92	14.69	18.82	19.65	17.42	17.18
31								14.68		19.55	17.33	

e Estimated

18.68

19.40

18.98

20.10

19.88

19.48

17.26

LOW

SITE NUMBER C1—Continued

		WATER L	EVEL, IN	FEET BELOW		CE POINT, AILY LOWE	WATER YEAR ST VALUES	OCTOBER	1996 TO	SEPTEMBER	1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17.10 17.04 16.98 16.95	17.22 17.25 17.24 17.25 17.27	18.79 18.89 18.94 18.98 18.98	16.66 17.04 17.50 18.08 18.62	20.55 20.79 21.08 21.38 21.67	 	20.81 20.80 20.76 20.63 20.55	17.99 17.81 17.42 17.00 16.71	14.82 14.86 13.99 13.73 14.16	18.95 19.14 19.29 19.40 19.50	18.89 18.82 18.74 18.69 18.61	18.53 18.54 18.52 18.45 18.42
6 7 8 9	16.94 16.92 16.86 16.82 16.82	17.28 17.36 17.40 17.47 17.51	19.04 19.14 19.17 19.19	19.01 19.22 19.49 19.77 20.00	21.90 22.13 22.32 		20.61 20.72 20.81 20.89 21.00	16.54 16.35 16.26 16.13 15.95	14.33 14.40 14.48 14.54 14.58	19.56 19.63 19.68 19.70 19.70	18.50 18.39 18.22 18.10 18.05	18.41 18.42 18.44 18.45
11 12 13 14 15	16.75 16.75 16.75 16.69 16.65	17.59 17.64 17.71 17.71 17.79	19.22 19.23 19.25 19.34 19.35	20.04 20.04 19.95 19.80 19.75	 	22.34 22.25 22.23 22.18	21.08 21.14 21.15 21.17 21.21	15.85 15.78 15.71 15.74 15.74	14.65 14.71 14.77 14.80 14.85	19.73 19.75 19.78 19.79 19.80	17.97 17.90 17.85 17.77 17.68	18.52 18.59 18.62 18.62 18.60
16 17 18 19 20	16.59 16.62 16.62 16.62 16.68	17.86 17.93 17.98 18.05 18.15	19.28 19.32 19.31 19.09 18.78	19.76 19.68 19.62 19.48 19.31	 	22.07 22.13 22.16 22.15 22.11	21.21 21.15 21.03 20.89 20.71	15.72 15.70 15.72 15.74 15.78	14.90 14.94 15.01 15.22 15.58	19.84 19.85 19.87 19.87 19.88	17.67 17.67 17.63 17.66 17.72	18.54 18.52 18.49 18.52 18.53
21 22 23 24 25	16.74 16.77 16.84 16.84 16.86	18.22 18.26 18.38 18.39 18.31	18.51 18.35 18.25 18.16 18.01	19.36 19.60 19.89 20.20 20.44	 	22.01 21.97 21.86 21.70 21.61	20.51 20.35 20.18 19.96 19.72	15.86 16.01 16.13 16.26 16.35	15.98 16.27 16.61 16.93 17.24	19.88 19.87 19.80 19.71 19.61	17.82 17.98 18.13 18.27 18.38	18.51 18.48 18.47 18.43 18.36
26 27 28 29 30 31	16.95 17.00 17.00 17.02 17.07 17.14	18.43 18.51 18.58 18.69 18.76	17.89 17.69 17.49 17.16 16.83 16.61	20.61 20.69 20.68 20.62 20.52 20.37	22.32 22.30 	21.50 21.36 21.22 21.11 21.03 20.93	19.43 19.06 18.69 18.43 18.20	16.34 15.46 14.71 14.82 14.86 14.86	17.56 17.92 18.25 18.52 18.75	19.50 19.39 19.28 19.16 19.06 18.96	18.45 18.48 18.49 18.49 18.51	18.28 18.19 18.13 18.08 18.06
LOW	17.14	18.76	19.35	20.69	22.32	22.34	21.21	17.99	18.75	19.88	18.89	18.62
		WATER L	EVEL, IN	FEET BELOW		CE POINT, AILY LOWE:	WATER YEAR ST VALUES	OCTOBER	1997 TO	SEPTEMBER	1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	18.04 17.98 17.88 17.85 17.80	19.05 19.08 19.08 19.13 19.14	19.98 20.00 20.00 20.05 20.09	21.26 21.32 21.39 21.40 21.38	21.56 21.77 21.89 22.03 22.17	21.96 21.99 22.03 22.10 22.12	20.71 20.71 20.68 20.57 20.43	20.73 20.74 20.74 20.69 20.65	18.85 18.79 18.76 18.75 18.78	14.82 14.82 14.87 15.00 15.32	 	
6 7 8 9 10	17.76 17.73 17.64 17.64 17.61	19.13 19.08 19.07 19.07	20.07 19.93 19.63 19.43 19.61	21.25 21.00 20.77 20.56 20.47	22.27 	22.12 22.04 21.88 21.74 21.60	20.32 20.24 20.18 20.17 20.16	20.53 20.42 20.31 20.21 20.16	18.82 18.82 18.79 18.76 18.73	15.56 15.72 16.01 16.40 16.80	 	
11 12 13 14 15	17.57 17.53 17.58 17.64 17.67	19.06 19.07 19.19 19.34 19.41	19.80 19.96 20.10 20.20 20.34	20.42 20.24 19.98 19.66 19.29	 	21.53 21.36 21.13 21.23 21.45	20.13 20.04 20.01 20.00 19.97	20.09 20.01 19.93 19.80 19.68	18.68 18.65 18.64 18.60 18.60	17.14 17.38 17.54 17.66 17.75	 	
16 17 18 19 20	17.67 17.63 17.58 17.59 17.60	19.41 19.43 19.53 19.62 19.73	20.46 20.55 20.65 20.75 20.75	18.88 18.54 18.30 18.19 18.37	22.32 22.27 22.19	21.64 21.79 21.88 21.88 21.86	19.96 19.96 20.00 20.08 20.15	19.63 19.62 19.60 19.59	18.58 18.58 18.56 18.46 18.26	17.78 17.78 17.78 17.81 17.87		
21 22 23 24 25	17.60 17.66 17.84 18.10 18.31	19.82 19.91 19.94 19.97 20.01	20.80 20.85 20.88 20.88 20.89	18.64 18.90 19.18 19.45 19.76	22.13 22.06 22.05 22.04 21.97	21.77 21.64 21.51 21.37 21.23	20.22 20.26 20.26 20.25 20.31	19.48 19.41 19.36 19.32 19.31	17.97 17.50 16.89 16.17 15.57	18.04 18.25 18.44 	 	
26 27 28 29 30 31	18.50 18.69 18.86 18.94 18.98 19.02	20.02 19.99 20.01 20.01 20.01	20.96 21.01 21.08 21.15 21.22 21.24	20.06 20.33 20.62 20.88 21.13 21.36	21.91 21.92 21.95 	21.08 20.94 20.84 20.75 20.71 20.71	20.38 20.46 20.55 20.63 20.69	19.26 19.19 19.14 19.08 18.98 18.92	15.04 14.85 14.82 14.81 14.82	 	 	
LOW	19.02	20.02	21.24	21.40	22.32	22.12	20.71	20.74	18.85	18.44		

SITE NUMBER FROM LOCATION MAP.—49.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1S2E35ADCA.

SITE ID (STATION NUMBER).—435517103501801.

OTHER IDENTIFIERS.—PE-96C and Four Corners.

LOCATION.—Lat 43°55′15.6″, long 103°50′18.5″, in NE¹/4SW¹/4SE¹/4NE¹/4 sec. 35, T. 1 S., R. 2 E., Hydrologic Unit 10120110, 7 mi south of Deerfield Reservoir. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 380 ft deep with 223 ft of 5-in. steel casing; open hole from 223 to 380 ft.

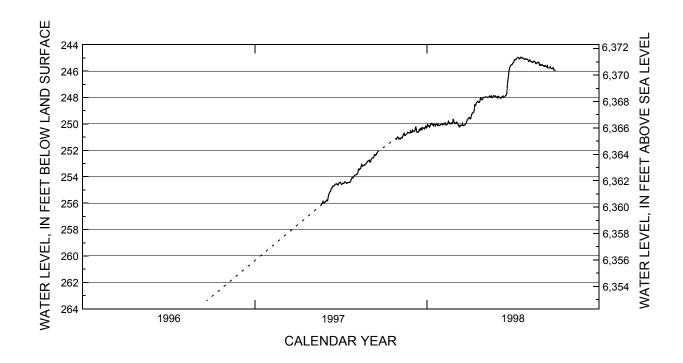
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 6,616.3 ft above sea level. Measuring point: Top of steel casing, 1.3 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1996 to September 1998.

EXTREMES.—Highest daily water level, 244.95 ft below land-surface datum, July 13, 19, 20, 1998; lowest daily water level, 263.4 ft (estimated) below land-surface datum, Sept. 20, 1996, from driller's log.



SITE NUMBER 49—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITI. AUG SEP ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 2 ___ ---------3 ------------------___ ___ ___ ___ ___ 5 ___ ---------------------------------6 ------------------------------------8 ___ ___ ___ ___ ___ ___ ___ ------------------10 ------------------11 ___ ___ ___ ___ ___ ------------------------12 ------------13 ------------------------15 ---___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 17 ___ 18 ---------------------------19 ___ ___ ___ ___ ___ ___ ___ ___ ___ 2.0 ___ e263 4 21 ---___ ------___ ---------------___ ------___ ___ 22 23 ------------------___ ___ ------------25 26 27 ------------------------___ ---___ ---28 29 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------30 31 ---------------------------263.40 LOW ------WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR JUN JUL AUG SEP MAY 255.78 254.43 253.89 252.88 2 ___ ---------___ ___ ___ ___ 255.76 254.53 253.86 252.90 ___ 255.83 254.58 253.85 252.86 4 ___ ------------___ ------255.80 254.58 253.85 252.71 ------___ ___ ___ ------255.54 254.53 253.80 5 252.66 6 7 ___ ---------------------255.38 254 50 253.72 252.59 ------------------------255.28 254.48 253.68 252.58 8 255.17 254.52 253.44 252.58 ___ ___ ___ ___ ___ ___ ___ ___ 255.16 254.47 253.49 252 58 ------255.12 254.39 253.49 252.50 10 11 ___ ___ ___ ___ ___ ___ ___ ___ 254.95 254.38 253.40 252 36 ------------------------254.86 254.39 253.41 253.37 252.33 12 254.45 14 ___ ___ ___ ___ ___ ___ ___ ___ 254.83 254 51 253 17 252 37 ------------------------254.70 254.50 253.07 15 252.33 254 46 253 21 16 ___ ___ ___ ___ ___ ___ ___ ___ 254 69 252 22 ------------------------254.70 254.43 17 253.21 252.22 254.69 254.44 253.14 252.10 ___ ___ ___ 19 ___ ___ ___ ___ ___ 254 62 254 45 253.15 ---------___ ---------254.56 254.43 253.15 20 21 22 ---------------------256.16 256.07 254.56 253.10 253.10 ---------------------254.56 254.40 ---23 256.05 254.53 254.30 253.06 2.4 ---------------------255.97 254.60 254.20 253.01 ---------------255.87 254.12 254.63 252.95 25 26 ---------------------255.97 254.63 254.04 252.94 ---27 ___ 256.02 254.52 254.09 252.87 ___ 254.49 254.09 29 ---------------------255.90 254.46 254.04 252.78 252.77 ---30 255.90 254.42 253.95 255.90 253.90 31 252.74 LOW 256.16 255.83 254.58 253.89 252.90

e Estimated

SITE NUMBER 49—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		251.08	250.48	250.19	249.97	249.97	249.53	247.99	247.92	245.45	245.10	245.57
2		251.14	250.57	250.06	250.09	249.98	249.62	247.99	247.97	245.38	245.10	245.51
3		251.09	250.55	250.16	250.09	249.92	249.62	247.98	247.97	245.35	245.17	245.56
4		251.10	250.53	250.13	249.98	249.86	249.51	247.98	247.98	245.31	245.27	245.57
5		251.15	250.56	250.17	250.03	249.92	249.30	247.96	248.04	245.17	245.27	245.59
6		251.11	250.51	250.25	250.04	249.92	249.27	247.97	248.06	245.13	245.23	245.66
7		251.03	250.33	250.20	249.97	250.01	249.18	247.96	248.04	245.15	245.15	245.65
8		251.04	250.21	250.00	249.92	250.08	249.16	247.96	247.96	245.12	245.24	245.58
9		251.06	250.41	250.03	250.01	250.13	249.13	248.01	247.98	245.08	245.27	245.57
10		250.98	250.59	250.03	250.09	250.23	249.12	248.01	247.95	245.04	245.29	245.64
11		250.84	250.65	249.96	250.04	250.23	248.95	247.97	247.89	245.00	245.28	245.68
12		250.80	250.63	250.04	250.05	250.10	248.57	247.95	247.99	244.97	245.35	245.65
13		250.67	250.63	250.06	250.00	250.14	248.62	247.95	247.99	244.95	245.35	245.59
14		250.86	250.61	250.14	249.95	250.13	248.61	247.89	247.97	244.98	245.32	245.75
15		250.88	250.44	250.00	249.81	250.11	248.44	247.97	247.96	245.08	245.25	245.77
16		250.87	250.45	250.02	249.90	250.09	248.37	248.00	247.86	245.07	245.25	245.77
17		250.81	250.36	250.06	249.90	249.97	248.34	247.89	247.84	245.04	245.29	245.75
18		250.80	250.36	250.16	250.00	250.13	248.31	247.98	247.81	244.96	245.30	245.74
19		250.76	250.48	250.08	250.00	250.13	248.28	248.01	247.71	244.95	245.42	245.67
20		250.67	250.42	249.99	249.99	250.13	248.37	247.98	247.14	244.95	245.45	245.74
21		250.63	250.25	250.04	249.93	250.08	248.38	247.92	246.77	245.00	245.43	245.80
22		250.68	250.38	250.03	249.91	250.08	248.37	247.86	246.53	245.03	245.36	245.82
23		250.67	250.31	250.10	250.00	250.03	248.27	247.86	246.22	245.00	245.33	245.80
24		250.69	250.30	250.00	249.98	249.96	248.06	247.95	245.93	245.03	245.37	245.78
25		250.68	250.32	250.13	249.63	249.90	248.02	247.95	245.77	245.07	245.38	245.74
26		250.69	250.37	250.13	249.73	249.80	248.15	247.89	245.65	245.11	245.34	245.86
27	251.10	250.54	250.29	250.13	249.85	249.70	248.18	247.94	245.58	245.11	245.52	245.91
28	251.16	250.62	250.25	250.09	249.92	249.69	248.17	247.99	245.56	245.08	245.57	245.91
29	251.07	250.65	250.18	250.09		249.57	248.11	248.00	245.51	245.06	245.57	245.91
30	250.99	250.63	250.32	250.00		249.55	248.02	247.95	245.51	245.11	245.51	246.01
31	250.99		250.31	250.00		249.52		248.03		245.09	245.58	
LOW	251.16	251.15	250.65	250.25	250.09	250.23	249.62	248.03	248.06	245.45	245.58	246.01

SITE NUMBER FROM LOCATION MAP.—50.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1S7E20CACD.

SITE ID (STATION NUMBER).—435644103183801.

OTHER IDENTIFIERS.—Kieffer.

LOCATION.—Lat 43°56′41.3″, long 103°18′43.4″, in SE¹/4SW¹/4NE¹/4SW¹/4 sec. 20, T. 1 S., R. 7 E., Hydrologic Unit 10120109, 6 mi northeast of Keystone. Owner: R. Kieffer.

AQUIFER.—Deadwood.

WELL CHARACTERISTICS.—Drilled unused domestic well, 1,030 ft deep with 519 ft of 5-in. steel casing; 4.5 in. metal liner (believed to be in poor condition) from 519 to 985 ft; open hole from 985 to 1,030 ft.

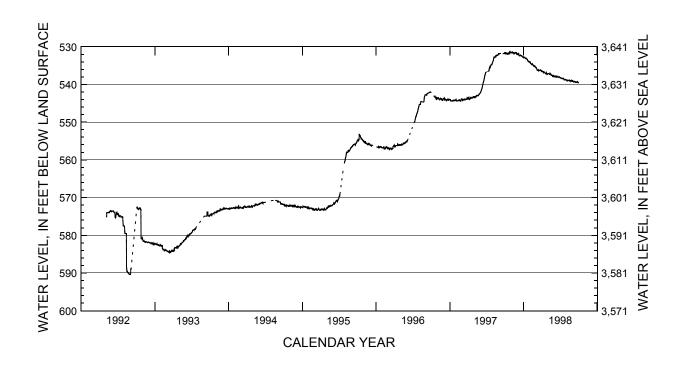
INSTRUMENTATION.—Electronic data logger with float -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 4,171.0 ft above sea level. Measuring point: Top of steel casing, 1.00 ft above land-surface datum.

REMARKS.—Current records good. Records poor for 1992, and fair for 1993-97 (±0.5 ft).

PERIOD OF RECORD.—May 1992 to September 1998.

EXTREMES.—Highest daily water level, 531.51 ft below land-surface datum, Sept. 30, 1997; lowest daily water level, 590.36 ft below land-surface datum, Aug. 26 to Sept. 2, 1992.



WATER	LEVEL,	IN	FEET	BELOW	LAND-	SURFACE	DATUM,	WATER	YEAR	OCTOBER	1991	TO	SEPTEMBER	1992
						DAILY	LOWEST	VALUE	S					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									573.72	574.36	577.55	590.36
2									573.64	574.25	577.55	590.36
3									573.62	574.26	577.68	588.89
4									573.60	574.47	579.06	588.89
5								575.14	573.57	574.79	579.57	588.87
6								575.14	573.56	574.75	579.57	
7								574.00	573.56	574.90	579.57	
8								573.99	573.56	574.99	579.57	
9 10								573.99 573.99	573.56 573.72	574.91 575.04	579.57 579.57	
10								373.99	3/3./2	373.04	319.31	
11								573.99	573.93	574.90	579.57	
12								573.99	573.91	574.86	579.57	
13								573.99	573.91	574.86	588.20	
14								573.93	573.91	574.86	589.12	
15								573.93	573.91	574.92	589.59	
16								573.98	573.90	575.07	589.59	
17								574.08	574.94	575.21	589.59	
18								574.08	575.30	575.19	589.59	
19								573.92	575.43	575.19	589.91	
20								573.92	575.39	575.19	589.91	
0.1									554 00		500 01	
21								573.92	574.83	575.17	589.91	
22								573.69	574.36	575.08	589.91	
23								573.70	574.29	575.10	589.92	
24								573.68	574.24	575.10	590.18	
25								573.63	573.99	575.12	590.18	
26								573.63	573.91	E76 21	590.36	
26 27								573.83	573.91	576.31	590.36	
										576.78		
28								573.59	574.50	577.54	590.36	
29								573.66	574.42	577.55	590.36	
30								573.70	574.15	577.55	590.36	
31								573.76		577.55	590.36	
LOW								575.14	575.43	577.55	590.36	590.36
		WATER LEV	EL, IN FE	EET BELOW	LAND-SURF			EAR OCTOR	BER 1992 T	O SEPTEME	BER 1993	
		WATER LEV	EL, IN FE	ET BELOW		FACE DATUM AILY LOWE:		TEAR OCTOE	BER 1992 T	O SEPTEME	BER 1993	
DAY					D.	AILY LOWE:	ST VALUES					SEP
DAY	OCT	WATER LEV	VEL, IN FE	EET BELOW JAN				TEAR OCTOE	3ER 1992 I JUN	O SEPTEME JUL	BER 1993 AUG	SEP
		NOV	DEC	JAN	D. FEB	AILY LOWE:	ST VALUES APR	MAY	JUN	JUL		SEP
1	OCT	NOV 581.18	DEC 581.83	JAN 582.06	D. FEB 582.76	MAR 584.05	ST VALUES APR 584.20	MAY 582.88	JUN 580.91	JUL 579.27	AUG	
1 2	OCT	NOV 581.18 581.25	DEC 581.83 581.83	JAN 582.06 582.27	D. FEB 582.76 582.73	MAR 584.05 584.16	APR 584.20 584.00	MAY 582.88 582.81	JUN 580.91 581.00	JUL 579.27 579.22	AUG	
1 2 3	OCT 572.56	NOV 581.18 581.25 581.55	DEC 581.83 581.83 581.91	JAN 582.06 582.27 582.29	D. FEB 582.76 582.73 582.94	MAR 584.05 584.16 584.31	APR 584.20 584.00 584.17	MAY 582.88 582.81 582.73	JUN 580.91 581.00 580.97	JUL 579.27 579.22 579.19	AUG 	 e574.96
1 2 3 4	OCT 572.56 572.53	NOV 581.18 581.25 581.55 581.56	DEC 581.83 581.83 581.91 582.01	JAN 582.06 582.27	D. FEB 582.76 582.73 582.94 582.94	MAR 584.05 584.16 584.31 584.32	APR 584.20 584.00 584.17 584.09	MAY 582.88 582.81 582.73 582.52	JUN 580.91 581.00 580.97 580.94	JUL 579.27 579.22 579.19 579.15	AUG 	e574.96
1 2 3	OCT 572.56	NOV 581.18 581.25 581.55	DEC 581.83 581.83 581.91	JAN 582.06 582.27 582.29 582.42	D. FEB 582.76 582.73 582.94	MAR 584.05 584.16 584.31	APR 584.20 584.00 584.17	MAY 582.88 582.81 582.73	JUN 580.91 581.00 580.97	JUL 579.27 579.22 579.19	AUG	e574.96
1 2 3 4	OCT 572.56 572.53	NOV 581.18 581.25 581.55 581.56	DEC 581.83 581.83 581.91 582.01	JAN 582.06 582.27 582.29 582.42	D. FEB 582.76 582.73 582.94 582.94	MAR 584.05 584.16 584.31 584.32	APR 584.20 584.00 584.17 584.09	MAY 582.88 582.81 582.73 582.52	JUN 580.91 581.00 580.97 580.94	JUL 579.27 579.22 579.19 579.15	AUG	e574.96
1 2 3 4 5	OCT 572.56 572.53 572.54	NOV 581.18 581.25 581.55 581.56 581.53	DEC 581.83 581.83 581.91 582.01 582.01	JAN 582.06 582.27 582.29 582.42	D. FEB 582.76 582.73 582.94 582.94 582.73	MAR 584.05 584.16 584.31 584.32 584.33	APR 584.20 584.00 584.17 584.09 583.89	MAY 582.88 582.81 582.73 582.52 582.71	JUN 580.91 581.00 580.97 580.94 580.71	JUL 579.27 579.22 579.19 579.15 579.14	AUG	e574.96
1 2 3 4 5	OCT 572.56 572.53 572.54 572.81	NOV 581.18 581.25 581.55 581.56 581.53	DEC 581.83 581.83 581.91 582.01 582.01	JAN 582.06 582.27 582.29 582.42	D. FEB 582.76 582.73 582.94 582.93 582.73	MAR 584.05 584.16 584.31 584.32 584.33	APR 584.20 584.00 584.17 584.09 583.89 584.03	MAY 582.88 582.81 582.73 582.52 582.71	JUN 580.91 581.00 580.97 580.94 580.71	JUL 579.27 579.22 579.19 579.15 579.14	AUG	e574.96
1 2 3 4 5	OCT 572.56 572.53 572.54 572.81 572.98	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95	JAN 582.06 582.27 582.29 582.42 582.31	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59	MAR 584.05 584.16 584.31 584.32 584.33 584.33	APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.67	AUG	e574.96
1 2 3 4 5	OCT 572.56 572.53 572.54 572.81 572.98 573.00	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.52	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95	JAN 582.06 582.27 582.29 582.42 582.31 582.49	D. FEB 582.76 582.73 582.94 582.73 582.60 583.59 583.61	MAR 584.05 584.16 584.31 584.32 584.33 584.33 584.29 584.28	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.67 578.63	AUG	e574.96
1 2 3 4 5 6 7 8 9	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.62 581.71 581.76	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47	D. FEB 582.76 582.73 582.94 582.93 582.60 583.69 583.61 583.63 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46	584.20 584.20 584.00 584.17 584.09 583.89 583.89 583.63 583.63 583.31 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.41	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63	AUG	e574.96
1 2 3 4 5 6 7 8 9 10	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.62 581.62 581.71 581.76	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47	D. FEB 582.76 582.73 582.94 582.93 582.60 583.59 583.61 583.63 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.29 584.28 584.33 584.46	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.41	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.67 578.63 578.63 578.61	AUG	e574.96
1 2 3 4 5 6 7 8 9 10	OCT 572.56 572.53 572.54 572.81 572.98 573.10 573.15 573.15	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.62 581.71 581.76	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 581.95 581.95	JAN 582.06 582.27 582.42 582.31 582.49 582.47 582.47	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.28 584.33 584.29 584.46 584.46	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.24 582.41 582.26 582.21	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.34 580.33 580.18 580.08	JUL 579.27 579.22 579.19 579.15 579.14 578.67 578.63 578.63 578.61 578.66 578.49	AUG	e574.96 574.93 574.93
1 2 3 4 5 6 7 8 9 10	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.83	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47	D. FEB 582.76 582.73 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.33 584.29 584.28 584.33 584.46 584.46 584.54	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.63 583.31 583.32 583.31 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.21 582.21	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.08	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63	AUG	e574.93 574.93 574.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.18 573.19 572.88 572.98	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.83	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.06 582.11 582.26 582.20	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.42 582.50 582.44	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.29 584.46 584.46 584.46 584.54	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.33 583.28 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.41 582.26 582.21 582.14 581.99	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.18 580.08 580.28 580.37	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.67 578.63 578.63 578.61 578.66 578.49 578.50 578.50 578.63	AUG	e574.96 574.93 574.93 574.92 574.92
1 2 3 4 5 6 7 8 9 10	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.83	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47	D. FEB 582.76 582.73 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.33 584.29 584.28 584.33 584.46 584.46 584.54	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.63 583.31 583.32 583.31 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.21 582.21	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.08	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63	AUG	e574.93 574.93 574.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.28 572.88	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.83 581.86 581.82 581.85	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.42 582.42	D. FEB 582.76 582.73 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.88 583.98	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.36 584.46 584.46 584.54 584.32 584.10 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.33 583.38	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.41 582.26 582.21 582.14 581.99 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.28 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.14 578.75 578.63 578.63 578.63 578.661 578.665 578.63 578.661	AUG	e574.96 574.93 574.93 574.92 574.92
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.19 572.88 572.93 572.83	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.83 581.85 581.85	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.06 582.11 582.26 582.20 582.06	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.42 582.50 582.44 582.61	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.78 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.54 584.63	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.33 583.28 583.31 583.30 583.25	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.41 582.26 582.21 582.14 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.18 580.08 580.28 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.67 578.63 578.63 578.61 578.66 578.49 578.50 578.63 578.43	AUG	e574.96 574.93 574.93 574.92 574.92 573.89
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.15 573.18 573.19 572.88 573.29 572.88	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.52 581.71 581.76 581.76 581.83 581.83 581.86 581.85	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.06	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.24 582.46 582.61 582.58	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.72 583.82 583.78 584.13 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.28 584.46 584.54 584.64 584.64 584.54 584.63 584.63	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32 583.31 583.33 583.28 583.31 583.30 583.28	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.24 582.21 582.14 581.99 581.98 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.28 580.21 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.67 578.63 578.63 578.61 578.66 578.49 578.50 578.63 578.49 578.50	AUG	e574.96 574.93 574.93 574.92 573.89 573.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.18 573.283 572.83 572.83	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.86 581.82 581.85 581.87 581.67	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.18 582.13 582.02	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.42 582.50 582.44 582.61	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.77 583.72 583.88 584.13 584.13 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.28 584.28 584.46 584.54 584.46 584.63 584.63 584.63	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.31 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.24 582.21 582.21 582.14 581.99 581.98 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.66 578.49 578.50 578.63 578.44 578.44 578.34	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 572.56 572.53 572.54 572.81 572.98 573.10 573.15 573.15 573.18 573.19 572.88 572.93 572.83	NOV 581.18 581.25 581.55 581.56 581.62 581.62 581.71 581.76 581.78 581.83 581.83 581.85 581.87 581.87 581.87 581.70	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.06 582.11 582.26 582.20 582.06	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.42 582.50 582.44 582.66	D. FEB 582.76 582.73 582.94 582.94 582.61 583.63 583.62 583.77 583.72 583.82 583.78 584.13 584.13 584.13 584.13 584.13 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.64 584.54 584.50 584.63 584.63 584.63	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.30 583.25 583.23 583.23 583.23 583.23 583.23 583.23	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.26 582.21 582.14 581.99 581.98 581.98 581.98 581.98 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.18 580.08 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.61 578.66 578.49 578.40 578.43 578.41 578.41 578.41	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.88 573.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.18 573.283 572.83 572.83	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.86 581.82 581.85 581.87 581.67	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.18 582.13 582.02	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.42 582.50 582.44 582.61	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.77 583.72 583.88 584.13 584.13 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.28 584.28 584.46 584.54 584.46 584.63 584.63 584.63	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.31 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.24 582.21 582.21 582.14 581.99 581.98 581.98	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.66 578.49 578.50 578.63 578.44 578.44 578.34	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	572.56 572.53 572.54 572.54 572.81 572.98 573.00 573.15 573.15 573.18 572.83 572.83 572.83 572.83 572.87 572.87	NOV 581.18 581.25 581.55 581.55 581.53 581.62 581.52 581.71 581.76 581.83 581.86 581.82 581.85 581.87 581.87 581.70 581.72 581.72 581.79	581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.06 582.20 582.06 582.20 582.20	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.24 582.60 582.46 582.66 582.66 582.66 582.66 582.55	D. FEB 582.76 582.73 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 584.13 584.13 584.02 583.87 583.74	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.28 584.33 584.46 584.54 584.46 584.54 584.46 584.54 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 583.63 583.31 583.32 583.31 583.33 583.28 583.31 583.32 583.31 583.32 583.31 583.32 583.49	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.98 581.98	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.18 580.18 580.08 580.28 580.37 580.16	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.63 578.43 578.44 578.44 578.42 578.34	AUG	e574.96 574.93 574.93 574.92 574.92 574.92 573.89 573.88 573.88 573.87 574.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.28 572.83 572.83 572.83 572.87 572.86 572.96 572.89	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.71 581.76 581.83 581.83 581.86 581.82 581.85 581.67 581.70 581.72 581.79	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.04 582.06 582.11 582.26 582.20 582.06 582.18 582.13 582.02 582.01 582.25	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.42 582.50 582.44 582.66 582.61 582.61 582.65 582.61 582.55	D. FEB 582.76 582.73 582.94 582.94 582.60 583.61 583.63 583.82 583.77 583.72 583.82 584.13 584.13 584.13 584.13 584.13 584.13 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.64 584.54 584.54 584.10 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.30 583.25 583.21 583.30 583.25 583.24 583.49 583.49	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.96 581.50	580.91 581.00 580.97 580.94 580.71 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.18 580.19 580.18	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.49 578.49 578.34 578.41 578.34 578.41 578.34 578.42 578.23	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.88 573.88 573.87 574.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.15 573.18 573.19 572.88 572.93 572.87 572.87 572.87 572.87	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.62 581.71 581.76 581.78 581.83 581.84 581.85 581.67 581.70 581.72 581.79 581.79 581.79	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.11 582.26 582.20 582.06 582.13 582.20 582.05 582.13 582.25 582.01	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.42 582.50 582.44 582.61 582.58 582.67 582.55 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.77 583.77 583.77 583.78 584.13	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.63 584.63 584.63 584.63 584.49 584.49	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32 583.31 583.33 583.28 583.31 583.30 583.25 583.23 583.11 583.32 583.11 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.41 582.26 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.92 581.83 581.66	JUN 580.91 581.00 580.97 580.94 580.71 580.72 580.62 580.34 580.39 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.18 580.04 579.98	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.66 578.49 578.50 578.63 578.43 578.43 578.34 578.34 578.34 578.34 578.34	AUG	e574.96 574.93 574.93 574.92 573.89 573.88 573.88 573.87 574.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 572.88 572.83 572.83 572.87 572.87 572.87 572.87 572.87 572.89 573.19	NOV 581.18 581.25 581.55 581.55 581.56 581.53 581.62 581.71 581.76 581.83 581.86 581.82 581.87 581.70 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.06 582.21 582.26 582.20 582.36 582.35	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.66 582.66 582.66 582.55 582.73 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.82 583.77 583.77 583.77 583.77 583.79 583.89	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.46 584.54 584.40 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 583.89 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.33 583.28 583.31 583.33 583.28 583.31 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.92 581.83 581.66	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 580.19 580.04 579.98	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.64 578.49 578.50 578.43 578.42 578.34 578.42 578.34 578.42 578.34 578.42 578.39 578.92	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.87 574.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.15 573.18 572.83 572.83 572.83 572.83 572.87 572.78 572.78 572.78 572.78 572.78 572.78 572.87	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.71 581.76 581.83 581.83 581.85 581.67 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79	DEC 581.83 581.81 582.01 582.01 581.95 581.95 581.98 582.04 582.20 582.06 582.20 582.06 582.20 582.05 582.36 582.25 582.36 582.45 582.53 582.53	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.42 582.66 582.66 582.66 582.67 582.67 582.84 582.84	582.76 582.73 582.94 582.94 582.93 583.61 583.63 583.62 583.77 583.72 583.82 583.72 583.82 583.77 583.82 583.77 583.82 583.82	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.64 584.54 584.08 584.63 584.08 584.63 584.49 584.29 584.49	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.32 583.31 583.30 583.25 583.31 583.30 583.25 583.31 583.25 583.31 583.25 583.29 583.29 583.29 583.29	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.94 581.95 581.50 581.42 581.50	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 579.65	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.61 578.66 578.49 578.41 578.34 578.41 578.34 578.41 578.34 578.41 578.31 578.92 578.19	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.88 573.88 573.87 574.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 572.88 572.83 572.83 572.87 572.87 572.87 572.87 572.87 572.89 573.19	NOV 581.18 581.25 581.55 581.55 581.56 581.53 581.62 581.71 581.76 581.83 581.86 581.82 581.87 581.70 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.06 582.21 582.26 582.20 582.36 582.35	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.66 582.66 582.66 582.55 582.73 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.82 583.77 583.77 583.77 583.77 583.79 583.89	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.46 584.54 584.40 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 583.89 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.33 583.28 583.31 583.33 583.28 583.31 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.92 581.83 581.66	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 580.19 580.04 579.98	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.64 578.49 578.50 578.43 578.42 578.34 578.42 578.34 578.42 578.34 578.42 578.39 578.92	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.87 574.45
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	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 572.88 572.83 572.83 572.87 572.86 572.96 572.96 572.96 572.96	NOV 581.18 581.25 581.55 581.55 581.56 581.53 581.62 581.71 581.76 581.78 581.83 581.86 581.82 581.87 581.70 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79 581.98	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 582.04 582.06 582.11 582.26 582.20 582.06 582.13 582.25 582.36 582.35 582.35	JAN 582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.27 582.66 582.66 582.67 582.64 582.55 582.73 582.73 582.84 582.84	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.88 584.13 584.02 583.87 583.74 583.74 583.79 583.79	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.46 584.54 584.40 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 583.63 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.83	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.18 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 579.98 579.98 579.65 579.59 579.63	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.64 578.49 578.50 578.63 578.43 578.42 578.34 578.42 578.34 578.42 578.34	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.87 574.45 574.67 574.85 574.85
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	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.18 573.19 572.83 572.83 572.83 572.87 572.78 572.78 572.78 572.78 572.78 572.78 572.87 572.86 572.96	NOV 581.18 581.25 581.55 581.55 581.62 581.62 581.71 581.76 581.83 581.83 581.85 581.67 581.72 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.79	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04 582.20 582.06 582.20 582.01 582.25 582.36 582.45 582.53 582.52 582.36	JAN 582.06 582.27 582.29 582.42 582.31 582.47 582.51 582.47 582.27 582.24 582.50 582.44 582.67 582.65 582.73 582.73 582.73 582.84 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 583.61 583.63 583.62 583.77 583.72 583.82 584.13 584.13 584.13 584.13 584.02 583.87 583.74	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.64 584.54 584.08 584.63 584.63 584.49 584.49 584.32 584.10 584.08	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.31 583.32 583.31 583.30 583.23 583.31 583.30 583.25 583.31 583.30 583.25 583.11 583.32 583.11 583.32 583.11 583.32 583.11 583.30	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.54 581.54 581.24	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 579.63 579.63 579.71	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.49 578.49 578.34 578.41 578.34 578.41 578.34 578.41 578.31 578.92 578.92	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.88 573.88 573.87 574.45 574.67 574.85 574.90
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 25 26 27	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.15 573.28 572.83 572.83 572.87 572.87 572.87 572.87 572.87 572.87 572.87 572.87 572.87 572.87 572.87 572.87	NOV 581.18 581.25 581.55 581.55 581.56 581.62 581.62 581.71 581.76 581.83 581.86 581.83 581.86 581.82 581.85 581.70 581.70 581.72 581.79 581.79 581.79 581.79 581.89 581.89 581.89	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.20 582.06 582.11 582.26 582.20 582.05 582.36 582.35 582.36 582.45 582.52 582.36	JAN 582.06 582.27 582.29 582.42 582.31 582.47 582.50 582.44 582.50 582.44 582.50 582.50 582.73 582.67 582.67 582.73 582.73 582.73 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.72 583.72 583.82 583.77 583.74 584.02 583.74 583.74 583.79 584.00 584.00	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.54 584.54 584.54 584.54 584.40 584.49 584.49 584.49 584.34 584.20 584.26 584.26 584.26 584.26	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.31 583.32 583.31 583.33 583.28 583.31 583.30 583.25 583.23 583.11 583.32 583.11 583.32 583.11 583.32 583.11 583.33	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.23 582.25 582.44 582.21 582.14 582.26 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.54 581.46 581.24 581.24	JUN 580.91 581.00 580.97 580.94 580.71 580.62 580.34 580.39 580.18 580.08 580.19 580.16 580.03 580.19 580.18 580.75 580.16 580.77 580.16 580.77 580.16 580.78 580.18 580.79 580.18	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.49 578.43 578.41 578.41 578.41 578.41 578.42 578.23	AUG	e574.96 574.93 574.93 574.92 573.89 573.88 573.88 573.88 573.87 574.45 574.67 574.85 574.91 574.88
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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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.28 572.83 572.83 572.83 572.87 572.86 572.96 572.89 573.19 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 572.87 572.86 572.87 572.86 572.87 572.87 572.86 572.96	NOV 581.18 581.25 581.55 581.55 581.56 581.52 581.71 581.76 581.83 581.83 581.85 581.87 581.70 581.72 581.72 581.72 581.72 581.79 581.79 581.79 581.89 581.89 581.89 581.81	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04 582.11 582.26 582.20 582.06 582.18 582.13 582.25 582.36 582.45 582.45 582.35 582.45 582.36 582.14 582.32	582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.24 582.50 582.46 582.61 582.61 582.65 582.73 582.73 582.73 582.84 582.73 582.84 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.88 584.13 584.13 584.02 583.87 583.74 583.78 583.90 584.00 584.00	MAR 584.05 584.16 584.31 584.32 584.33 584.28 584.28 584.28 584.29 584.66 584.54 584.66 584.54 584.69 584.63 584.63 584.46 584.54 584.20 584.49 584.20 584.49 584.34	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.63 583.31 583.32 583.31 583.30 583.25 583.31 583.30 583.25 583.11 583.32 583.11 583.32 583.11 583.32 583.11 583.32 583.11 583.32	MAY 582.88 582.81 582.73 582.52 582.71 582.25 582.44 582.21 582.21 582.21 582.14 581.99 581.98 581.98 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.13	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.31 580.18 580.08 580.28 580.37 580.16 580.03 580.19 580.19 579.63 579.61 579.64 579.50 579.50	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.49 578.34 578.34 578.34 578.34 578.34 578.34 578.34 578.34 578.34	AUG	e574.96 574.93 574.93 574.92 574.92 573.89 573.88 573.88 573.87 574.45 574.67 574.85 574.91 574.85
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.18 573.19 572.83 572.87 572.87 572.87 572.87 572.87 572.89 573.19 573.20 580.47 580.90 580.90 580.90 580.90 580.78	NOV 581.18 581.25 581.55 581.55 581.56 581.53 581.62 581.71 581.76 581.83 581.86 581.82 581.87 581.70 581.72 581.72 581.72 581.79 581.79 581.79 581.79 581.79 581.87 581.93 581.98 581.98	581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.06 582.11 582.20 582.06 582.13 582.20 582.06 582.18 582.33 582.25 582.36 582.45 582.36 582.45 582.37	JAN 582.06 582.27 582.29 582.42 582.31 582.47 582.50 582.47 582.27 582.27 582.25 582.50 582.44 582.61 582.61 582.58 582.73 582.73 582.73 582.73 582.73 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.82 583.87 583.72 583.82 583.89 584.13 584.02 583.74 583.79 584.00 583.99 584.00 583.94 584.09	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.54 584.54 584.54 584.54 584.20 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.58	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 583.89 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.35 583.25 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.31 583.32 583.43 583.11 582.78 583.00 583.00 583.00 583.00 583.00	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.14 582.26 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.92 581.45 581.45 581.45 581.45 581.45 581.45 581.45 581.45 581.45	JUN 580.91 581.00 580.97 580.94 580.72 580.62 580.34 580.39 580.18 580.18 580.18 580.16 580.03 580.19 580.18 580.04 579.98 579.97 579.65 579.59 579.63 579.71	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.64 578.49 578.50 578.63 578.19 578.23	AUG	e574.96 574.93 574.92 574.92 573.89 573.88 573.88 573.87 574.45 574.67 574.85 574.92
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 572.56 572.53 572.54 572.81 572.98 573.00 573.15 573.15 573.18 573.28 572.83 572.83 572.83 572.87 572.86 572.96 572.89 573.19 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 573.89 572.87 572.86 572.87 572.86 572.87 572.87 572.86 572.96	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.71 581.76 581.78 581.83 581.86 581.82 581.87 581.70 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.89 581.89 581.88 581.88	DEC 581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.95 581.98 582.04 582.11 582.26 582.20 582.06 582.18 582.13 582.25 582.36 582.45 582.45 582.35 582.45 582.36 582.14 582.32	582.06 582.27 582.29 582.42 582.31 582.49 582.51 582.47 582.27 582.24 582.50 582.46 582.61 582.61 582.65 582.73 582.73 582.73 582.84 582.73 582.84 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.77 583.72 583.82 583.77 583.77 583.77 583.78 584.03 584.03 584.03 584.00 584.00 584.00	MAR 584.05 584.16 584.31 584.32 584.33 584.28 584.28 584.28 584.29 584.66 584.54 584.66 584.54 584.69 584.63 584.63 584.46 584.54 584.20 584.49 584.20 584.49 584.34	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32 583.31 583.30 583.25 583.23 583.11 583.30 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.28 583.21 583.30 583.25 583.28	MAY 582.88 582.81 582.73 582.52 582.71 582.25 582.44 582.21 582.21 582.21 582.14 581.99 581.98 581.98 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94 581.94	JUN 580.91 581.00 580.97 580.94 580.71 580.62 580.34 580.39 580.18 580.08 580.19 580.16 580.03 580.19 580.16 580.75 580.75 580.7	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.40 578.49 578.34 578.41 578.34 578.41 578.34 578.41 578.34 578.19 577.92	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.88 573.88 573.87 574.45 574.67 574.85 574.91 574.88 574.92 574.92
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 572.56 572.53 572.54 572.81 572.98 573.15 573.15 573.18 573.19 572.83 572.87 572.87 572.87 572.87 572.87 572.89 573.19 573.20 580.47 580.90 580.90 580.90 580.90 580.78	NOV 581.18 581.25 581.55 581.56 581.53 581.62 581.71 581.76 581.78 581.83 581.86 581.82 581.87 581.70 581.79 581.79 581.79 581.79 581.79 581.79 581.79 581.89 581.89 581.88 581.88	581.83 581.83 581.91 582.01 582.01 581.95 581.95 581.98 582.04 582.06 582.11 582.20 582.06 582.13 582.20 582.06 582.18 582.33 582.25 582.36 582.45 582.36 582.45 582.37	JAN 582.06 582.27 582.29 582.42 582.31 582.47 582.50 582.47 582.27 582.27 582.25 582.50 582.44 582.61 582.61 582.58 582.73 582.73 582.73 582.73 582.73 582.73 582.73	D. FEB 582.76 582.73 582.94 582.94 582.73 582.60 583.59 583.61 583.63 583.82 583.72 583.72 583.72 583.72 583.74 584.03 584.03 584.03 584.00 584.00 584.09	MAR 584.05 584.16 584.31 584.32 584.33 584.29 584.28 584.33 584.46 584.46 584.54 584.54 584.54 584.54 584.54 584.20 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.63 584.58	ST VALUES APR 584.20 584.00 584.17 584.09 583.89 584.03 583.94 583.63 583.31 583.32 583.31 583.30 583.25 583.23 583.11 583.30 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.25 583.28 583.21 583.30 583.25 583.28	MAY 582.88 582.81 582.73 582.52 582.71 582.57 582.25 582.44 582.21 582.14 582.26 582.21 582.14 581.99 581.98 581.98 581.98 581.94 581.92 581.45 581.45 581.45 581.45 581.45 581.45 581.45 581.45 581.45	JUN 580.91 581.00 580.97 580.94 580.71 580.62 580.34 580.39 580.18 580.08 580.19 580.16 580.03 580.19 580.16 580.75 580.75 580.7	JUL 579.27 579.22 579.19 579.15 579.14 578.75 578.63 578.63 578.63 578.63 578.63 578.40 578.49 578.34 578.41 578.34 578.41 578.34 578.41 578.34 578.19 577.92	AUG	e574.96 574.93 574.93 574.92 574.92 573.88 573.88 573.88 573.87 574.45 574.67 574.85 574.91 574.82 574.92 574.92

e Estimated

SITE NUMBER 50—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	574.68 574.68 574.60 574.48 574.34	573.86 573.91 573.66 573.75 573.84	573.13 573.13 573.17 572.98 573.06	572.96 572.95 572.91 572.92 572.72	572.71 572.67 572.68 572.64 572.55	572.70 572.71 572.69 572.63 572.71	572.50 572.55 572.47 572.43 572.39	572.21 572.21 572.19 572.21 572.20	571.77 571.82 571.80 571.63 571.70	 	 570.77	571.16 571.07 571.06 570.97 571.19
6 7 8 9 10	574.28 574.39 574.67 574.76 574.45	573.66 573.54 573.63 573.70 573.68	573.07 572.89 572.82 573.08 573.08	573.01 572.94 572.90 572.85 573.00	572.80 572.65 572.67 572.55 572.56	572.78 572.83 572.83 572.77 572.69	572.32 572.32 572.36 572.43 572.57	572.21 572.20 572.19 572.22 572.06	571.60 571.50 571.57 571.60 571.59	 	 	571.20 571.15 571.15 571.15 571.15
11 12 13 14 15	574.39 574.37 574.37 574.30 574.24	573.58 573.47 573.55 573.58 573.54	573.07 572.90 573.07 573.08 572.95	573.00 572.98 572.89 572.88 572.88	572.70 572.79 572.75 572.74 572.74	572.86 572.91 572.79 572.62 572.68	572.58 572.45 572.25 572.32 572.49	572.22 572.05 571.94 572.03 571.93	571.55 571.46 571.37 571.28 571.27	 	 	571.15 571.16 571.21 571.22 571.43
16 17 18 19 20	574.25 574.19 574.17 574.14 574.29	573.49 573.54 573.33 573.46 573.27	572.96 572.92 572.97 572.81 572.81	572.73 572.82 572.80 572.77 572.86	572.54 572.42 572.28 572.68 572.87	572.48 572.39 572.40 572.34 572.49	572.56 572.47 572.57 572.57 572.51	571.78 571.85 572.00 572.00 571.86	571.37 571.47 571.47 571.34 571.56	 	 	571.69 571.75 571.65 571.59 571.59
21 22 23 24 25	574.10 574.00 573.92 573.89 574.00	573.04 573.13 573.36 573.36 573.36	572.90 572.88 572.94 572.98 572.98	572.86 572.80 572.78 572.70 572.70	572.80 572.74 572.72 572.67 572.78	572.42 572.36 572.57 572.62 572.59	572.49 572.45 572.25 572.22 572.18	571.98 571.99 571.98 572.02 571.93	571.39 571.32 571.32 571.32 571.32	 	 	571.77 571.80 571.70 571.72 571.83
26 27 28 29 30 31	574.00 573.98 573.95 574.02 574.02 573.81	573.16 573.11 573.25 573.27 573.13	573.01 573.03 573.08 573.10 572.96 572.91	572.64 572.71 572.73 572.87 572.90 572.86	572.76 572.53 572.70 	572.39 572.61 572.45 572.73 572.56 572.51	572.37 572.56 572.46 572.48 572.32	571.89 571.73 571.77 571.74 571.78 571.85	571.32 571.32 571.31 	 	570.77 570.77 570.77 570.77 570.99 571.18	571.81 571.79 571.79 571.79 571.79
LOW	574.76	573.91	573.17	573.01	572.87	572.91	572.58	572.22	571.82		571.18	571.83
		WATER LEV	EL, IN FE	ET BELOW				EAR OCTOB	ER 1994 T	O SEPTEMB	ER 1995	
DAY	OCT	NOV	EL, IN FE	ET BELOW JAN		ACE DATUM AILY LOWES MAR		EAR OCTOB	ER 1994 T JUN	O SEPTEMB JUL	ER 1995 AUG	SEP
DAY 1 2 3 4 5					Dž	AILY LOWES	ST VALUES					SEP 556.64 556.54 556.54 556.54
1 2 3 4	OCT 571.79 571.79 572.16 572.17	NOV 572.05 572.20 572.20 572.15	DEC 572.42 572.45 572.47 572.59	JAN 572.62 572.68 572.69 572.69	FEB 572.56 572.81 572.91 572.78	MAR 573.40 573.28 573.13 573.06	APR 573.15 573.21 573.34 573.24	MAY 573.01 572.71 572.86 572.91	JUN 571.90 571.84 571.79 571.69	JUL 570.17 569.93 569.62 569.62	AUG 560.17 559.76 559.40 559.26	556.64 556.54 556.54 556.54
1 2 3 4 5 6 7 8 9	OCT 571.79 571.79 572.16 572.17 571.97 571.73 572.20 572.29 572.22	NOV 572.05 572.20 572.15 572.20 572.15 572.20 572.28 572.22 572.09 572.07 572.04 572.29	DEC 572.42 572.47 572.59 572.61 572.52 572.43 572.52 572.44 572.54 572.35	JAN 572.62 572.68 572.69 572.69 572.26 572.30 572.35 572.44 572.42 572.38	572.56 572.81 572.78 572.79 572.79 572.79 572.77 572.77 572.77 572.79 572.87 572.85 572.92	MAR 573.40 573.28 573.13 573.06 573.07 573.20 573.21 572.99 573.04 573.00	573.15 573.21 573.24 573.24 573.08 573.02 573.01 573.22 573.21 573.22 573.23 573.23	MAY 573.01 572.71 572.86 572.91 572.82 572.62 572.55 572.42 572.54 572.59 572.42 572.30	JUN 571.90 571.84 571.79 571.69 571.52 571.41 571.63 571.71 571.62 571.70 571.62 571.70	JUL 570.17 569.93 569.62 569.62 569.62 569.00 568.86	AUG 560.17 559.76 559.40 559.26 559.18 558.80 558.49 557.87 558.11	556.64 556.54 556.54 556.54 556.45 556.45 556.19 556.12 555.99 555.98
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 571.79 571.79 572.16 572.17 571.97 571.73 572.20 572.22 572.15 572.22 572.15 572.12 572.18 572.30 572.07	NOV 572.05 572.20 572.20 572.15 572.20 572.18 572.27 572.28 572.22 572.09 572.04 572.04 572.29	DEC 572.42 572.45 572.47 572.59 572.61 572.52 572.43 572.54 572.54 572.45 572.47 572.45	JAN 572.62 572.68 572.69 572.26 572.30 572.35 572.44 572.42 572.38 572.52 572.57	572.56 572.81 572.91 572.78 572.79 572.79 572.79 572.87 572.77 572.79 572.85 572.92 572.92	MAR 573.40 573.28 573.06 573.07 573.20 573.25 573.21 572.99 573.04 573.00 573.10 573.32 573.32	573.15 573.21 573.24 573.08 573.08 573.02 573.02 573.01 573.22 573.21 573.23 573.23 573.23 572.96	MAY 573.01 572.71 572.86 572.91 572.82 572.62 572.55 572.42 572.59 572.42 572.09 572.30 572.54	JUN 571.90 571.84 571.79 571.69 571.52 571.41 571.63 571.70 571.62 571.70 571.62 571.50	JUL 570.17 569.93 569.62 569.62 569.62 569.00 568.86	AUG 560.17 559.76 559.40 559.26 559.18 558.80 558.49 557.87 558.11 558.10 558.06 558.06 558.06	556.64 556.54 556.54 556.54 556.45 556.45 556.19 556.12 555.99 555.98 555.98 556.03
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 571.79 571.79 572.16 572.17 571.97 571.73 572.20 572.29 572.22 572.15 572.18 572.07 571.84	NOV 572.05 572.20 572.20 572.15 572.20 572.28 572.17 572.28 572.22 572.09 572.04 572.04 572.48 572.48 572.13 572.11 572.30 572.30	DEC 572.42 572.47 572.59 572.61 572.52 572.43 572.54 572.35 572.47 572.42 572.43 572.50 572.50 572.56 572.56	JAN 572.62 572.68 572.69 572.26 572.30 572.35 572.44 572.42 572.38 572.57 572.57 572.41 572.38 572.57 572.60	572.56 572.81 572.78 572.79 572.79 572.79 572.87 572.77 572.77 572.79 572.85 572.92 572.76 572.79 572.87	MAR 573.40 573.28 573.13 573.06 573.07 573.20 573.25 573.21 572.99 573.04 573.00 573.37 573.37 573.37 573.37 573.37 573.37 573.37	573.15 573.21 573.24 573.08 573.02 573.02 573.02 573.02 573.01 573.22 573.21 573.15 573.23 573.23 573.23 573.23 573.23 573.23 573.23 573.23 573.23	MAY 573.01 572.71 572.86 572.91 572.62 572.62 572.55 572.42 572.59 572.42 572.09 572.30 572.26 572.36 572.36 572.36 572.36 572.36 572.36 572.36 572.36	JUN 571.90 571.84 571.79 571.69 571.52 571.41 571.62 571.70 571.62 571.50 571.32 571.20 571.06	JUL 570.17 569.93 569.62 569.62 569.00 568.86	AUG 560.17 559.76 559.40 559.26 559.18 558.80 558.49 557.87 558.11 558.10 558.06 557.80 557.50 557.51 557.52	556.64 556.54 556.54 556.54 556.45 556.45 556.19 556.12 555.98 555.98 555.88 555.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 571.79 571.79 572.16 572.17 571.97 571.73 572.20 572.29 572.22 572.15 572.12 572.18 572.07 571.84 572.07 571.84 572.07 572.18 572.19 572.18 572.19 572.18	NOV 572.05 572.20 572.15 572.20 572.17 572.28 572.22 572.09 572.04 572.48 572.13 572.11 572.29 572.48 572.11 572.21 572.11 572.49 572.11 572.11 572.11 572.12	DEC 572.42 572.47 572.59 572.61 572.52 572.44 572.54 572.35 572.47 572.45 572.47 572.56 572.56 572.50 572.53 572.64 572.53	JAN 572.62 572.68 572.69 572.26 572.30 572.35 572.44 572.42 572.38 572.52 572.57 572.57 572.60 572.60 572.62 572.61 572.62 572.61 572.62	572.56 572.81 572.78 572.79 572.79 572.79 572.94 572.77 572.77 572.79 572.87 572.92 572.92 572.76 572.79 572.87 572.87 572.92 572.92 572.76 573.06 573.08 573.08 573.13	MAR 573.40 573.28 573.13 573.06 573.27 573.20 573.21 572.99 573.04 573.00 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37 573.37	573.15 573.21 573.24 573.08 573.02 573.02 573.02 573.01 573.22 573.21 573.15 573.23 572.96 573.15 573.15 573.15 573.15 573.15 573.15 573.29 40 573.28 573.21 573.28 573.21 573.21 573.21 573.21 573.23	MAY 573.01 572.71 572.86 572.91 572.62 572.62 572.42 572.55 572.42 572.59 572.42 572.26 572.30 572.54 572.26 572.32 572.22 572.10 572.22	JUN 571.90 571.84 571.79 571.69 571.52 571.41 571.62 571.70 571.62 571.50 571.32 571.20 571.06 570.96 570.97 570.96 570.91 570.73 570.73 570.73 570.73 570.73 570.73	JUL 570.17 569.93 569.62 569.62 569.62	AUG 560.17 559.76 559.40 559.26 559.18 558.80 557.87 558.11 558.11 558.06 557.80 557.54 557.50 557.52 557.55 557.55	556.64 556.54 556.54 556.54 556.45 556.45 556.19 556.12 555.98 555.98 555.98 555.82 555.82 555.82 555.82 555.82 555.82 555.82 555.82

LOW 572.38 572.49 572.73 572.97 573.40 573.40 573.34 573.01 571.90 570.17 560.17 556.64

e Estimated

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		WAIEK DEV	ED, IN FE	SEI DELOW	D.	AILY LOWE			EK 1999 I	O DEFIEME	EK 1990	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	554.91 554.92 554.83 554.47	555.12 555.27 555.35 555.35	555.80 556.12 556.12 556.04	 	556.85 556.85 556.85 556.83	556.79 556.82 556.82 556.82	556.37 556.15 556.36 556.61	556.00 555.99 555.96 556.03	555.21 555.25 555.17 554.90		545.65 545.53 545.28	542.81 542.81 542.81 542.81
5 6 7 8 9 10	554.87 554.95 554.81 554.66 554.67 553.26	555.23 555.39 555.56 555.59 555.04 555.40	556.14 556.15 556.15 556.27 556.34 556.28	 556.68 556.68	556.81 556.75 556.66 556.72 556.65 557.06	557.00 557.12 557.29 557.22 557.02 556.99	556.56 556.34 556.27 556.25 556.25 556.24	556.11 556.01 555.87 555.94 556.03 556.02	554.86 554.74 	 549.95 549.95	 545.36 544.94 544.55	542.74 542.83 542.89 542.89 542.51 542.48
11 12 13 14 15	553.31 553.43 553.66 553.75 553.78	555.45 555.45 555.66 555.60 555.70	556.11 556.07 	556.72 556.67 556.55 556.79 556.71	557.13 557.10 556.93 556.98 557.11	556.90 556.88 557.09 557.09	556.20 556.20 556.18 556.25 556.27	555.99 555.96 555.88 555.69 555.78	 	549.78 549.71 549.27 549.15 548.93	544.52 	542.48 542.44 542.40 542.31 542.31
16 17 18 19 20	553.73 553.99 554.10 554.44 554.46	555.70 555.73 555.68 555.93 556.02	 	556.42 556.81 556.81 556.68 556.58	557.08 556.92 556.73 556.60 556.68	556.95 557.07 557.18 557.32 557.27	556.13 555.88 556.02 556.07 556.07	555.65 555.63 555.56 555.62 555.69	 	548.73 548.48 548.33 548.33 547.93		542.29 542.26 542.25 542.25 542.19
21 22 23 24 25	554.22 554.49 554.61 554.62 554.62	556.02 555.94 555.95 555.88 555.95	 	556.63 556.66 556.50 556.51 556.52	556.72 556.54 556.65 556.64 556.83	557.17 557.05 556.82 557.12 556.58	556.18 556.22 556.12 555.93 556.02	555.66 555.54 555.57 555.64 555.59	 	547.77 547.74 547.58 547.44 547.28	544.71 544.69 544.64 544.57	542.18 542.16 542.07 542.07 542.07
26 27 28 29 30 31	554.48 554.79 554.94 555.00 555.03 554.94	555.73 555.88 555.84 555.73 555.79	 	556.56 556.56 556.61 556.78 556.78	556.83 557.05 557.08 557.06	556.45 556.40 556.40 556.27 556.42 556.43	556.02 556.04 556.22 556.22 555.97	555.44 555.30 555.35 555.30 555.16 555.08	 	547.12 546.79 546.50 546.46 546.22 545.92	544.54 543.64 543.24 543.16 543.04 542.81	542.01 541.97
LOW	555.03	556.02	556.34	556.81	557.13	557.32	556.61	556.11	555.25	549.95	545.65	542.89
		WATER LEV	EL, IN FE	EET BELOW	LAND-SURF		1, WATER Y ST VALUES		BER 1996 T	O SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	543.69 543.73 543.55 543.52 543.55	543.77 543.84 543.87 543.85 543.69	544.08 544.02 543.92 544.23 544.43	544.14 544.16 544.32 544.43	544.02 543.97 544.06 544.19 544.31	543.90 543.93 543.89 543.51 543.43	543.23 543.36 543.45 543.33 543.43	542.12 542.13 542.09 541.94 541.69	 	534.15 533.96 533.80 533.75 533.62	531.87 531.87 531.87 531.90 531.86
6 7 8 9 10	 	543.58 543.90 543.90 543.92 543.94	543.89 544.14 544.09 543.95 543.91	 544.30	544.41 544.41 544.35 544.32 544.34	544.28 544.02 544.14 544.14 544.00	543.73 543.85 543.96 543.79 543.85	543.28 543.16 543.37 543.24 543.16	541.60 541.36 541.16 541.11 540.98	 	533.18 532.84 532.74 532.81 532.81	
11 12 13 14 15	 	544.09 544.09 544.06 543.88 543.68	544.10 544.16 544.19 544.29 544.33	544.40 544.47 544.42 544.15 544.37	544.23 544.22 544.14 544.16 544.31	544.03 543.95 544.11 544.11 544.05	543.79 543.72 543.62 543.55 543.78	543.23 543.11 542.95 543.03 543.03	540.63 540.37 540.19 540.01 539.65	536.46 536.36 536.38 536.21	532.82 532.88 532.78 532.67 532.52	
16 17 18 19 20	543.30 543.33 542.99 543.29	543.70 543.77 543.76 543.64 543.89	543.97 544.18 544.14 544.01 543.92	544.38 544.33 544.35 544.35 544.21	544.28 544.15 544.31 544.31 544.24	543.79 544.02 544.10 544.08 543.97	543.78 543.68 543.52 543.48 543.47	542.98 542.92 542.97 543.02 543.04	539.46 539.23 539.09 538.86 538.56	535.79 535.46 535.34 535.58 535.51	532.68 532.68 532.68 532.33 532.33	
21 22 23 24 25	543.50 543.42 543.45 543.43 543.41	543.86 543.87 544.22 544.22 544.19	543.97 544.07 544.23 544.23 544.15	544.11 544.13 544.13 544.33 544.33	544.27 544.43 544.45 544.47 544.22	543.96 543.96 543.96 543.93 543.94	543.42 543.50 543.47 543.60 543.56	542.95 542.95 542.95 542.79 542.61	538.27 538.03 537.75 537.51 537.36	535.31 535.16 534.94 534.87 534.76	532.32 532.24 532.32 532.32 532.33	
26 27 28 29 30 31	544.01 544.02 543.91 543.64 543.74 543.78	544.22 544.22 543.93 543.86 543.88	544.14 543.78 543.98 543.99 544.07 544.08	544.26 544.34 544.33 544.25 544.11 543.97	544.01 543.85 543.88 	543.83 543.62 543.74 543.90 543.87 543.70	543.57 543.46 543.29 543.29 543.28	542.60 542.64 542.57 542.42 542.38 542.32	537.24 536.82 	534.78 534.77 534.76 534.62 534.43 534.20	532.29 532.22 532.22 532.16 531.86 531.86	531.85 531.76 531.84 531.84 531.51
LOW	544.02	544.22	544.33	544.47	544.47	544.31	543.96	543.45	542.13	536.46	534.15	531.90

SITE NUMBER 50—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	531.74	531.63	531.90	532.70	533.98	535.47	536.51	537.09	537.62	538.18	538.78	539.24
2	531.75	531.68	532.00	532.73	534.25	535.55	536.57	537.14	537.83	538.16	538.85	539.09
3	531.46	531.69	532.02	532.88	534.25	535.44	536.62	537.10	537.83	538.25	538.89	539.17
4	531.78	531.57	531.98	532.78	534.21	535.50	536.59	537.14	537.83	538.29	539.05	539.25
5	531.91	531.64	532.08	532.80	534.42	535.63	536.47	537.14	537.97	538.25	539.05	539.26
6	531.87	531.53	531.98	532.91	534.45	535.63	536.51	537.17	538.03	538.36	538.96	539.37
7	531.70	531.43	531.76	532.89	534.45	535.83	536.59	537.21	537.98	538.45	538.88	539.34
8	531.72	531.53	531.77	532.87	534.52	535.94	536.69	537.26	537.87	538.47	538.89	539.20
9	531.88	531.66	532.09	533.03	534.70	536.02	536.83	537.35	537.98	538.48	539.00	539.15
10	531.83	531.63	532.36	533.06	534.76	536.26	536.87	537.36	537.85	538.48	538.96	539.21
11	531.55	531.53	532.43	533.08	534.79	536.26	536.70	537.25	537.86	538.38	538.93	539.34
12	531.69	531.52	532.43	533.18	534.79	536.09	536.52	537.25	538.01	538.43	538.95	539.32
13	531.88	531.63	532.41	533.18	534.75	536.23	536.83	537.08	537.91	538.38	538.96	539.28
14	532.01	531.91	532.38	533.17	534.73	536.23	536.85	537.14	538.01	538.40	538.94	539.37
15	532.08	531.91	532.33	533.07	534.62	536.21	536.89	537.35	537.92	538.56	538.87	539.47
16	532.08	531.83	532.35	533.15	534.76	536.15	536.96	537.47	537.85	538.57	538.86	539.44
17	531.87	531.78	532.23	533.26	534.82	536.12	536.97	537.38	537.88	538.57	539.01	539.37
18	531.75	531.74	532.28	533.34	534.99	536.38	536.97	537.49	537.86	538.47	538.99	539.28
19	531.86	531.75	532.39	533.34	535.08	536.29	537.07	537.58	537.95	538.58	539.09	539.29
20	531.81	531.54	532.38	533.37	535.07	536.27	537.19	537.55	538.02	538.57	539.22	539.43
21	531.80	531.49	532.23	533.62	535.03	536.29	537.19	537.49	538.13	538.69	539.09	539.45
22	531.61	531.59	532.42	533.66	535.14	536.29	537.19	537.52	538.18	538.80	539.03	539.46
23	531.42	531.57	532.40	533.74	535.29	536.33	537.13	537.58	538.02	538.78	538.98	539.39
24	531.66	531.56	532.51	533.73	535.29	536.30	536.89	537.75	537.99	538.72	539.03	539.36
25	531.77	531.72	532.63	533.96	534.96	536.25	536.99	537.83	537.99	538.77	539.03	539.28
26 27 28 29 30 31	531.66 531.49 531.53 531.53 531.41 531.53	531.72 531.65 531.96 532.04 532.04	532.65 532.65 532.68 532.71 532.89 532.90	533.99 533.99 534.07 534.07 533.95 534.00	535.12 535.28 535.35 	536.18 536.28 536.28 536.31 536.46 536.42	537.23 537.41 537.37 537.25 537.16	537.70 537.75 537.86 537.79 537.68 537.82	537.98 538.04 538.07 538.13 538.19	538.79 538.76 538.75 538.70 538.79 538.79	538.94 539.07 539.16 539.18 539.10 539.23	539.39 539.49 539.42 539.48 539.67
LOW	532.08	532.04	532.90	534.07	535.35	536.46	537.41	537.86	538.19	538.80	539.23	539.67

SITE NUMBER FROM LOCATION MAP.—51.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1S7E3CDBD.

SITE ID (STATION NUMBER).—435916103161801.

OTHER IDENTIFIERS.—PE-86A and Reptile Gardens Mdsn.

LOCATION.—Lat 43°59′15.1″, long 103°16′20.6″, in SE¹/4NW¹/4SE¹/4SW¹/4 sec. 3, T. 1 S., R. 7 E., Hydrologic Unit 10120111, 5 mi south of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,220 ft deep with 1,194 ft of 5-in. steel casing; open hole from 1,194 to 1,220 ft.

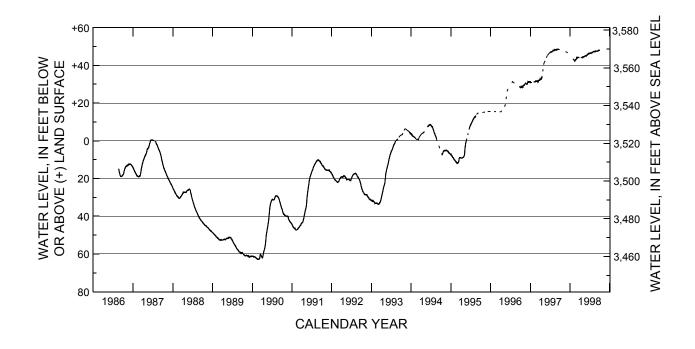
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,521.3 ft above sea level. Measuring point: Top of steel casing, 0.50 ft above land-surface datum. Also base of gage 1.3 ft above land-surface datum when gage used.

REMARKS.—Records fair.

PERIOD OF RECORD.—August 1986 to September 1998.

EXTREMES.—Highest daily water level, 48.62 ft above land-surface datum, Sept. 11-12, 17, 1997; lowest daily water level, 62.92 ft below land-surface datum, Feb. 27, 1990.



SITE NUMBER 51—Continued

WATER LEVEL, IN FEET BELOW OR ABOVE (+) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DF	ZIDI DOMES	I VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		5.11	5.33	7.32	9.72	11.87	8.85	8.53		+8.22	+11.84	
2		5.20	5.38	7.47	9.99	11.81	9.02	8.33		+8.49	+12.10	e+14.60
3		5.20	5.46	7.53	10.08	11.67	9.15	8.18		+8.70	+12.10	
4		5.17	5.64	7.55	10.07	11.69	9.12	8.09		+8.72	+12.18	
5		5.17	5.67	7.35	10.12	11.69	9.12	7.92		+8.79	+12.36	
6		5.20	5.69	7.56	10.19	11.78	9.13	7.67		+8.76	+12.42	
7		5.13	5.80	7.72	10.33	11.82	9.05	7.44		+8.86	+12.43	
8		5.16	5.84	7.72	10.33	11.76	9.06	7.23		+8.96	+12.43	
9		5.16	5.92	7.82	10.31	11.59	9.17	6.77		+9.15	+12.51	
10		5.10	6.02	7.88	10.31	11.54	9.17	6.12		+9.13	+12.51	
10		5.09	6.02	7.88	10.39	11.54	9.17	0.12		+9.23	+12.67	
11		5.02	5.95	7.98	10.52	11.50	9.13	5.25		+9.47	+12.82	
12		4.99	6.08	8.13	10.68	11.34	9.12	4.29		+9.53	+12.84	
13	7.41	5.12	6.08	8.27	10.69	11.33	9.12	3.58		+9.68	+12.94	
14	7.34	5.24	6.15	8.27	10.69	11.25	9.07	3.41		+9.68		
15	7.09	5.24	6.23	8.24	10.80	11.00	9.09	2.86		+9.86	e+12.61	
16	7.10	5.01	6.31	8.33	10.95	10.56	9.12	2.29		+10.01		
17	7.07	4.93	6.44	8.48	10.99	10.45	9.08	1.90		+10.14		
18	6.80	5.12	6.42	8.61	11.28	10.10	8.99	1.48		+10.34		
19	6.72	5.10	6.47	8.72	11.30	9.61	8.95	1.15		+10.48		
20	6.52	5.01	6.58	8.81	11.42	9.46	8.81	.97		+10.53		
0.1		- 01		0.00	11 04	0 01	0.00			10.65		
21	6.28	5.21	6.69	8.83	11.34	9.21	8.93	.69	+6.62	+10.65		
22	6.02	5.24	6.77	8.90	11.46	9.03	8.93	.41	+6.73	+10.77		
23	5.94	5.23	6.74	8.93	11.63	9.02	8.84	.21	+6.90	+10.95		
24	5.83	5.14	6.72	9.09	11.60	8.82	8.82	.04	+7.11	+11.11		
25	5.73	5.14	6.84	9.11	11.54	8.84	8.77	+.18	+7.32	+11.24		
26	5.55	5.00	6.86	9.10	11.69	8.84	8.75	+.50	+7.54	+11.41		
27	5.37	5.04	7.01	9.33	11.85	8.90	8.70	+.52	+7.71	+11.50		
28	5.33	5.25	7.01	9.58	11.87	8.91	8.64		+7.78	+11.45		
29	5.35	5.32	7.14	9.61		8.91	8.64		+7.83	+11.51		
30	5.34	5.29	7.25	9.58		8.85	8.55		+7.98	+11.64		
31	5.30		7.31	9.62		8.84				+11.63		
LOW	7.41	5.32	7.31	9.62	11.87	11.87	9.17	8.53	+6.62	+8.22	+11.84	+14.60
TOM	/.11	5.32	1.31	9.02	11.0/	11.0/	J.1	0.33	TU.UZ	TO.22	T11.04	T17.00
		MARIED I DI	DI IN DDD	T ADOLES I	AND GUDEA	CE DAMIIM	MARIED MEA	AD OGMODE	D 1005 EV	GEDWEND	IID 1006	
		WAIEK LEV	rr'IN LEE	T AROAR I	MIND-POKEL	CE DAIUM,	WATER YEA	JV OCTORE	K TAAD I.	N PERIEMB	FK TAAD	

WATER LEVEL,IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5									e+26.85			
6												
7												
8							e+15.38					
9												
10												
11												
12												
13												
14												
15												
16								e+18.71				
17												
18												
19			e+15.62									
20												
21												
22												
23										e+31.44		
24												
25												
26										e+31.13		
27												
28												
29												
30										e+31.00		
31	e+15.17											
31	0.10.17											
LOW	+15.17		+15.62				+15.38	+18.71	+26.85	+31.00		

e Estimated

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

		WAIEK DE	VED, IN FI	SEI ADOVE	D.	AILY LOWE:			JER 1990 1	O DEFIEME	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+28.38	+29.54	e+29.95	+31.43		+31.49	+32.76				+47.74	+48.34
2	+28.22	+29.56 +29.54		+31.24		+31.58			e+44.66	+46.86	+47.76	+48.16 +48.20
4	+28.36 +28.57	+29.42	+30.35	+31.50			+32.13			+46.82 +46.86	+47.79 +47.76	+48.20
5	+28.61	+29.42		+30.81		+31.68				+46.98	+47.90	+48.27
6	+28.50		e+30.59			+31.59	+32.59			+46.98	+47.86	+48.46
7 8	+28.50 +28.50	+29.47 e+29.54	+30.60 +30.46			+31.75 +31.37	+32.38	e+41.08		+47.05 +47.05	+47.90 +48.13	+48.46 +48.48
9	+28.41	+29.56	+30.85			+31.88	+32.70			+47.05	+48.04	+48.50
10	+28.38	+29.84	+31.11				+32.93			+47.07	+48.16	+48.57
11		e+29.93	+30.97				+33.22			+47.21	+48.22	+48.62
12 13	+28.64 +28.64		+31.45 e+31.40		+31.38	+31.88 +31.71	+33.28	 e+41.78		+47.23 +47.09	+48.11 +48.22	+48.62 +48.55
14	+28.52		+31.29		+31.17	+31.60	+33.02			+47.09	+48.39	+48.46
15	+28.50		+31.04		+31.17	+31.31	+33.22			+47.16	+48.46	+48.46
16		+30.46			+31.29	+31.40	+33.11			+47.09	+48.25	+48.59
17 18	+28.50 +28.50	e+30.43	e+31.08 +31.08		+31.42 +31.22	+31.67 +31.60	+33.30 +33.23		e+45.93	+47.19 +47.16	+48.22 +48.25	+48.62 +48.59
19	+28.87	e+30.54	+30.88		+31.67	+31.69	+33.49			+47.12	+48.25	
20	+28.59	+30.62	+31.18		+31.49	+32.17	+33.72			+47.23	+48.20	
21		e+30.60	+31.34		+31.43	+32.01				+47.32	+48.22	
22 23	+28.68	+30.51 e+30.49	+31.38 +31.61			+31.77 +32.07				+47.39 +47.46	+48.11 +48.13	
24	+28.85	+30.37	+31.20		+31.58	+32.43				+47.56	+48.27	
25	+28.55	+30.25			+31.78	+32.09				+47.62	+48.27	
26	+28.31	+30.21	+31.15		+31.84	+31.86				+47.58	+48.34	
27 28		e+30.13 e+30.04	+31.08 +31.34		+31.82	+32.44 +32.29				+47.56 +47.62	+48.39 +48.34	
29		+30.02	+30.94			+32.07				+47.69	+48.43	
30	+29.19	+30.02	+31.54 +31.41			+32.31				+47.79	+48.34 +48.43	
31	+29.49		+31.41			+32.65				+47.74	+48.43	
LOW	+28.22	+29.42	+29.95	+30.81	+31.17	+31.31	+32.13	+41.08	+44.66	+46.82	+47.74	+48.16
		WATER LE	VEL, IN FI	EET ABOVE	LAND-SURF D.	ACE DATUM AILY LOWE:			3ER 1997 1	O SEPTEME	BER 1998	
DAY	OCT	NOV	VEL, IN FI	EET ABOVE JAN					3ER 1997 1 JUN	O SEPTEME JUL	BER 1998 AUG	SEP
1		NOV	DEC	JAN	D. FEB 	AILY LOWE: MAR	ST VALUES APR	MAY +44.42	JUN +45.23	JUL +46.31	AUG +47.07	+47.60
1 2		NOV	DEC 	JAN 	D. FEB 	MAR +43.52	ST VALUES APR	MAY +44.42 +44.28	JUN +45.23 +45.23	JUL +46.31 +46.38	AUG +47.07 +47.14	+47.60 +47.65
1	 	NOV	DEC e+47.08	JAN 	D. FEB 	AILY LOWE: MAR	ST VALUES APR	MAY +44.42 +44.28 +44.35 +44.46	JUN +45.23	JUL +46.31	AUG +47.07	+47.60
1 2 3		NOV 	DEC e+47.08	JAN 	D. FEB 	MAR +43.52 +43.59	ST VALUES APR	MAY +44.42 +44.28 +44.35	JUN +45.23 +45.23 +45.23	JUL +46.31 +46.38 +46.38	AUG +47.07 +47.14 +47.19	+47.60 +47.65 +47.65
1 2 3 4 5		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49	JUN +45.23 +45.23 +45.23 +45.34 +45.23	JUL +46.31 +46.38 +46.38 +46.52 +46.59	AUG +47.07 +47.14 +47.19 +47.09 +47.09	+47.60 +47.65 +47.65 +47.62 +47.58
1 2 3 4 5	 	NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.49	JUN +45.23 +45.23 +45.23 +45.23 +45.23	JUL +46.31 +46.38 +46.52 +46.59 +46.49	AUG +47.07 +47.14 +47.19 +47.09 +47.09	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51
1 2 3 4 5 6 7 8 9		NOV	DECe+47.08	JAN	D. FEB e+42.93	MAR +43.52 +43.59 +43.82 +43.68 +43.68 +43.93 +44.19	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51	JUN +45.23 +45.23 +45.23 +45.23 +45.23 +45.64 +45.46	JUL +46.31 +46.38 +46.52 +46.49 +46.45 +46.47 +46.47	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.30	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81
1 2 3 4 5 6 7 8		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.59	JUN +45.23 +45.23 +45.34 +45.34 +45.23 +45.46 +45.64	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.45 +46.45	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.23 +47.30 +47.30	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72
1 2 3 4 5 6 7 8 9 10		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58	JUN +45.23 +45.23 +45.34 +45.34 +45.27 +45.46 +45.62 +45.62	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.45 +46.47 +46.57	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.30 +47.35 +47.42	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65
1 2 3 4 5 6 7 8 9 10		NOV	DEC e+47.08	JAN	D. FEB e+42.93	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58 +44.74	JUN +45.23 +45.23 +45.34 +45.23 +45.27 +45.46 +45.64 +45.66 +45.62	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.47	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.30 +47.35 +47.35	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65
1 2 3 4 5 6 7 8 9 10 11 12 13 14		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58 +44.74 +44.74	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.64 +45.66 +45.62 +45.66 +45.73	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.47 +46.52 +46.55	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.35 +47.35 +47.35	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.65 +47.67 +47.67
1 2 3 4 5 6 7 8 9 10 11 12 13		NOV	DEC e+47.08	JAN	D. FEB e+42.93	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.51 +44.51 +44.74 +44.74	JUN +45.23 +45.23 +45.23 +45.24 +45.64 +45.64 +45.62 +45.62	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.28 +47.35 +47.42 +47.39 +47.39	+47.60 +47.65 +47.65 +47.62 +47.51 +47.60 +47.72 +47.81 +47.65 +47.51 +47.60 +47.60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.58 +44.51 +44.58 +44.74 +44.74 +44.74 +44.74	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.62 +45.62 +45.78 +45.78 +45.78 +45.78	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.47 +46.52 +46.52 +46.52 +46.52 +46.52 +46.52 +46.52	AUG +47.07 +47.14 +47.19 +47.09 +47.23 +47.30 +47.30 +47.35 +47.35 +47.42 +47.39 +47.49 +47.49	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.65 +47.65 +47.67
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.03 +44.09 +44.07	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58 +44.74 +44.74 +44.76	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.66 +45.62 +45.62 +45.73 +45.73 +45.73 +45.76	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.47 +46.52 +46.56 +46.49	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.30 +47.30 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37	+47.60 +47.65 +47.65 +47.62 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.67 +47.67 +47.65
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.58 +44.51 +44.58 +44.74 +44.74 +44.74 +44.74	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.62 +45.62 +45.78 +45.78 +45.78 +45.78	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.47 +46.52 +46.52 +46.52 +46.52 +46.52 +46.52 +46.52	AUG +47.07 +47.14 +47.19 +47.09 +47.23 +47.30 +47.30 +47.35 +47.35 +47.42 +47.39 +47.49 +47.49	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.65 +47.65 +47.67
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC e+47.08	JAN	E+42.93 +42.27 +42.39 +42.43 +42.66 +42.55	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.03 +44.02 +44.12 +44.21 +44.07	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.58 +44.74 +44.74 +44.74 +44.74 +44.74 +44.74	JUN +45.23 +45.23 +45.23 +45.23 +45.27 +45.46 +45.64 +45.62 +45.62 +45.78 +45.78 +45.78 +45.78	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.52 +46.52 +46.42 +46.42	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.35 +47.35 +47.42 +47.42 +47.46 +47.47 +47.49	+47.60 +47.65 +47.65 +47.62 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.67 +47.65 +47.65 +47.65
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66 +42.66 +42.78	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12 +44.21 +44.07 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58 +44.74 +44.76 +44.79 +44.83 +44.79 +44.83 +44.79 +44.89	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.46 +45.62 +45.62 +45.78 +45.73 +46.01 +46.01 +46.01 +46.15	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.47 +46.52 +46.47 +46.52 +46.49 +46.56 +46.42 +46.49 +46.56 +46.49 +46.56 +46.59 +46.61	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.28 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.39 +47.39 +47.49 +47.39 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49	+47.60 +47.65 +47.65 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.67 +47.65 +47.86 +4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66 +42.55 +42.64 +42.66 +42.78 +42.99	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12 +44.21 +44.07 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.58 +44.74 +44.76 +44.76 +44.76 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83	JUN +45.23 +45.23 +45.23 +45.23 +45.27 +45.46 +45.62 +45.66 +45.73 +45.78 +45.76 +45.87 +46.01 +46.01 +46.01 +46.03 +46.15 +46.15	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.47 +46.52 +46.47 +46.56 +46.56 +46.56 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.30 +47.35 +47.35 +47.39 +47.39 +47.49 +47.49 +47.49 +47.49 +47.53	+47.60 +47.65 +47.65 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.65 +47.86 +47.86 +47.86 +47.86 +47.86 +47.86
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66 +42.66 +42.78	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12 +44.21 +44.07 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.49 +44.58 +44.51 +44.74 +44.74 +44.76 +44.79 +44.83 +44.74 +44.79 +44.83	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.64 +45.62 +45.62 +45.67 +45.78 +45.73 +46.01 +46.03 +46.15 +46.15 +46.19 +46.38 +46.45	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.42 +46.49 +46.56 +46.49 +46.59 +46.59 +46.61 +46.68 +46.68 +46.79 +46.79	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.30 +47.28 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.49 +47.53 +47.28 +47.72	+47.60 +47.65 +47.65 +47.58 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.65 +47.65 +47.65 +47.65 +47.65 +47.86 +47.86 +47.88 +47.88
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC e+47.08	JAN	E+42.93 +42.27 +42.39 +42.43 +42.66 +42.55 +42.64 +42.66 +42.78 +42.99 +43.08	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.51 +44.74 +44.74 +44.74 +44.79 +44.83 +44.79 +44.79 +44.83	JUN +45.23 +45.23 +45.23 +45.23 +45.27 +45.46 +45.64 +45.62 +45.62 +45.78 +45.73 +46.01 +46.01 +46.01 +46.03 +46.15 +46.15 +46.19 +46.38	JUL +46.31 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.52 +46.52 +46.56 +46.45 +46.45 +46.45 +46.45 +46.45 +46.56 +46.59 +46.56	AUG +47.07 +47.14 +47.19 +47.09 +47.09 +47.30 +47.30 +47.35 +47.42 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37 +47.28 +47.28 +47.28	+47.60 +47.65 +47.65 +47.62 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.67 +47.65 +47.65 +47.86 +47.86 +47.86 +47.86
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		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66 +42.78 +42.99 +43.08 +42.99 +43.01 +42.96	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12 +44.21 +44.07 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.58 +44.51 +44.58 +44.74 +44.76 +44.79 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +44.79 +44.83	JUN +45.23 +45.23 +45.23 +45.27 +45.46 +45.64 +45.62 +45.62 +45.66 +45.73 +45.76 +46.01 +46.03 +46.15 +46.15 +46.36 +46.45 +46.36 +46.47	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.49 +46.56 +46.42 +46.49 +46.56 +46.49 +46.56 +46.68 +46.68 +46.68 +46.79 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.23 +47.30 +47.28 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.28 +47.47 +47.39 +47.49 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.48	+47.60 +47.65 +47.65 +47.51 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.65 +47.65 +47.65 +47.65 +47.86 +47.86 +47.88 +47.86 +47.81 +47.76 +47.88
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 25 27		NOV	DEC e+47.08	JAN	E+42.93	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.58 +44.74 +44.74 +44.74 +44.76 +44.79 +44.83 +44.79 +44.83 +44.79 +44.89 +44.97 +44.97 +44.97	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.46 +45.57 +45.78 +45.73 +46.01 +46.01 +46.03 +46.15 +46.15 +46.15 +46.36 +46.47 +46.45	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.47 +46.56 +46.59 +46.61 +46.68 +46.79 +46.68 +46.70 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.23 +47.30 +47.35 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.47 +47.39 +47.72 +47.39 +47.49 +47.49 +47.46 +47.72 +47.53	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.65 +47.65 +47.65 +47.67 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.65 +47.74 +47.86 +47.86 +47.81 +47.86 +47.81 +47.86 +47.81 +47.86 +47.86 +47.86
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		NOV	DEC e+47.08	JAN	E+42.93 e+42.93 +42.27 +42.39 +42.43 +42.66 +42.78 +42.99 +43.01 +42.96 +43.01	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12 +44.21 +44.07 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.46 +44.58 +44.51 +44.58 +44.74 +44.76 +44.79 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +44.79 +44.83	JUN +45.23 +45.23 +45.23 +45.27 +45.46 +45.64 +45.62 +45.62 +45.66 +45.73 +45.76 +46.01 +46.03 +46.15 +46.15 +46.36 +46.45 +46.36 +46.47	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.49 +46.56 +46.42 +46.49 +46.56 +46.49 +46.56 +46.68 +46.68 +46.68 +46.79 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.23 +47.30 +47.28 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.28 +47.47 +47.39 +47.49 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.48	+47.60 +47.65 +47.65 +47.51 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.65 +47.65 +47.65 +47.65 +47.86 +47.86 +47.88 +47.86 +47.81 +47.76 +47.88
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 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.58 +44.74 +44.76 +44.76 +44.79 +44.83 +44.76 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +45.11 +45.06 +44.97 +45.11 +45.16 +45.01 +45.11	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.46 +45.62 +45.62 +45.78 +45.73 +45.73 +46.01 +46.01 +46.01 +46.38 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45	JUL +46.31 +46.38 +46.38 +46.52 +46.47 +46.47 +46.47 +46.52 +46.47 +46.56 +46.49 +46.68 +46.70 +46.68 +46.70 +46.68 +46.77 +46.68 +46.77 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.30 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.65 +47.65 +47.65 +47.65	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.65 +47.74 +47.86 +47.86 +47.81 +47.76 +47.86 +47.81 +47.92 +47.92 +47.92 +47.92 +47.92 +47.92 +47.72
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 31 31 31 31 31 31 31 31 31 31 31 31		NOV	DEC e+47.08	JAN	E+42.93	MAR +43.52 +43.59 +43.82 +43.70 +43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.58 +44.74 +44.74 +44.79 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +45.06 +49.79 +45.01 +45.06 +44.97 +45.11 +45.06 +45.04 +45.10	JUN +45.23 +45.23 +45.23 +45.27 +45.46 +45.62 +45.62 +45.67 +45.73 +45.76 +45.87 +46.01 +46.01 +46.03 +46.15 +46.15 +46.36 +46.45 +46.45 +46.36 +46.45 +46.45 +46.45 +46.45	JUL +46.31 +46.38 +46.38 +46.52 +46.49 +46.56 +46.47 +46.47 +46.52 +46.47 +46.52 +46.56 +46.42 +46.45 +46.68 +46.79 +46.68 +46.79 +46.68 +46.77 +46.68 +46.77 +46.84 +47.00 +47.00 +47.00	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.23 +47.35 +47.42 +47.39 +47.49 +47.49 +47.46 +47.39 +47.42 +47.39 +47.48 +47.46 +47.53 +47.42 +47.53 +47.65 +47.65 +47.65 +47.65	+47.60 +47.65 +47.65 +47.51 +47.51 +47.60 +47.72 +47.81 +47.65 +47.67 +47.67 +47.65 +47.65 +47.62 +47.74 +47.86 +47.86 +47.81 +47.76 +47.89 +47.92 +47.92 +47.92 +47.92 +47.92
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 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC e+47.08	JAN	D. FEB	MAR +43.52 +43.59 +43.82 +43.70 43.68 +43.93 +44.19 +44.00 +44.07 +44.14 +44.03 +44.09 +44.12	APR	MAY +44.42 +44.28 +44.35 +44.49 +44.58 +44.51 +44.58 +44.74 +44.76 +44.76 +44.79 +44.83 +44.76 +44.79 +44.83 +44.79 +44.83 +44.79 +44.83 +44.79 +45.11 +45.06 +44.97 +45.11 +45.16 +45.01 +45.11	JUN +45.23 +45.23 +45.23 +45.23 +45.46 +45.46 +45.46 +45.62 +45.62 +45.78 +45.73 +45.73 +46.01 +46.01 +46.01 +46.38 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45 +46.45	JUL +46.31 +46.38 +46.38 +46.52 +46.47 +46.47 +46.47 +46.52 +46.47 +46.56 +46.49 +46.68 +46.70 +46.68 +46.70 +46.68 +46.77 +46.68 +46.77 +46.68	AUG +47.07 +47.14 +47.19 +47.09 +47.30 +47.30 +47.35 +47.42 +47.39 +47.49 +47.49 +47.49 +47.46 +47.37 +47.39 +47.49 +47.65 +47.65 +47.65 +47.65	+47.60 +47.65 +47.65 +47.62 +47.58 +47.51 +47.65 +47.74 +47.86 +47.86 +47.81 +47.76 +47.86 +47.81 +47.92 +47.92 +47.92 +47.92 +47.92 +47.92 +47.72

e Estimated

SITE NUMBER FROM LOCATION MAP.—52.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—1S7E3CDBD2.

SITE ID (STATION NUMBER).—435916103161802.

OTHER IDENTIFIERS.—PE-94A and Reptile Gardens Mnls.

LOCATION.—Lat 43°59′15.1″, long 103°16′20.6″, in SE¹/4NW¹/4SE¹/4SW¹/4 sec. 3, T. 1 S., R. 7 E., Hydrologic Unit 10120111, 5 mi south of Rapid City. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 660 ft deep with 604 ft of 5-in. steel casing; open hole from 604 to 660 ft.

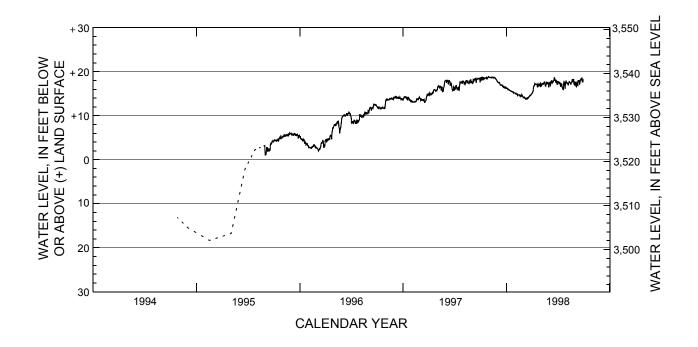
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,520.4 ft above sea level. Measuring point: Top of steel casing, 1.8 ft above land-surface datum and base of gage 2.85 ft above land-surface datum when gage is used.

REMARKS.—Records good.

PERIOD OF RECORD.—October 1994 to September 1998.

EXTREMES.—Highest daily water level, 18.90 ft above land-surface datum, Oct. 30, 1997; lowest daily water level, 18.35 ft (estimated) below land-surface datum, Feb. 15, 1995.



SITE NUMBER 52—Continued

WATER LEVEL, IN FEET BELOW OR ABOVE (+) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

		,			DA	ILY LOWES	T VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			e15.46									+.98
2												+1.57
3 4								e16.78				+1.08 +1.45
5												+2.11
6												+2.84
7												+2.40
8												+2.79
9 10												+1.86 +2.51
10												. 2.51
11												+2.46
12 13												+1.98 +2.27
14												+1.83
15					e18.35							+2.53
16												+2.34
17 18												+2.05 +2.36
19												+3.42
20												+3.69
21									e2.14			+3.38
22												+3.88
23 24												+3.65 +3.76
25	e13.14											+4.13
26										2 24		+4.07
26 27										e+2.24		+4.07
28												+4.31
29 30											+3.22	+4.18 +4.07
31											+1.83	
LOW	13.14		15.46		18.35			16.78	2.14	+2.24	+1.83	+.98
	1	WATER LEV	EL, IN FEI	ET ABOVE	LAND-SURF <i>I</i> DA	ACE DATUM,		EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FEI DEC	ET ABOVE				EAR OCTOB	ER 1995 T JUN	O SEPTEMB	ER 1996 AUG	SEP
	OCT	NOV	DEC	JAN	DA FEB	ILY LOWES	T VALUES	MAY	JUN	JUL	AUG	
DAY 1 2					DA	ILY LOWES	T VALUES					SEP +10.55 +10.95
1 2 3	OCT +4.20 +4.29 +4.29	NOV +5.27 +5.21 +5.13	DEC +6.05 +5.93 +5.55	JAN +5.08 +5.04 +5.36	DA FEB +2.98 +2.64 +2.85	MAR +2.74 +2.67 +2.59	APR +4.37 +4.61 +4.58	MAY +7.75 +7.94 +7.99	JUN +9.88 +9.93 +9.90	JUL +9.34 +8.37 +8.30	AUG +10.06 +9.86 +10.20	+10.55 +10.95 +11.30
1 2 3 4	OCT +4.20 +4.29 +4.29 +4.61	NOV +5.27 +5.21 +5.13 +5.19	DEC +6.05 +5.93 +5.55 +5.78	JAN +5.08 +5.04 +5.36 +4.77	DA FEB +2.98 +2.64 +2.85 +2.84	MAR +2.74 +2.67 +2.59 +2.53	T VALUES APR +4.37 +4.61 +4.58 +4.15	MAY +7.75 +7.94 +7.99 +7.93	JUN +9.88 +9.93 +9.90 +10.00	JUL +9.34 +8.37 +8.30 +8.48	AUG +10.06 +9.86 +10.20 +9.71	+10.55 +10.95 +11.30 +11.61
1 2 3 4 5	OCT +4.20 +4.29 +4.29 +4.61 +4.35	NOV +5.27 +5.21 +5.13 +5.19 +5.41	DEC +6.05 +5.93 +5.55 +5.78 +5.49	JAN +5.08 +5.04 +5.36 +4.77 +4.78	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74	MAR +2.74 +2.67 +2.59 +2.53 +2.41	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93	MAY +7.75 +7.94 +7.99 +7.93 +7.80	JUN +9.88 +9.93 +9.90 +10.00 +10.23	JUL +9.34 +8.37 +8.30 +8.48 +8.58	AUG +10.06 +9.86 +10.20 +9.71 +9.97	+10.55 +10.95 +11.30 +11.61 +11.81
1 2 3 4	OCT +4.20 +4.29 +4.29 +4.61	NOV +5.27 +5.21 +5.13 +5.19	DEC +6.05 +5.93 +5.55 +5.78	JAN +5.08 +5.04 +5.36 +4.77	DA FEB +2.98 +2.64 +2.85 +2.84	MAR +2.74 +2.67 +2.59 +2.53	T VALUES APR +4.37 +4.61 +4.58 +4.15	MAY +7.75 +7.94 +7.99 +7.93	JUN +9.88 +9.93 +9.90 +10.00	JUL +9.34 +8.37 +8.30 +8.48	AUG +10.06 +9.86 +10.20 +9.71	+10.55 +10.95 +11.30 +11.61
1 2 3 4 5	OCT +4.20 +4.29 +4.29 +4.61 +4.35 +4.35 +4.36	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.76	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.94 +7.71	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16	JUL +9.34 +8.37 +8.30 +8.48 +8.68 +8.67 +8.64 +8.31	AUG +10.06 +9.86 +10.20 +9.71 +9.79 +9.67 +9.59	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72
1 2 3 4 5	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.75 +2.75 +2.75	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.28	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.94 +7.71 +8.13	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.79 +9.67 +9.59 +9.81	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42
1 2 3 4 5	OCT +4.20 +4.29 +4.29 +4.61 +4.35 +4.35 +4.36	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.76	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.94 +7.71	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16	JUL +9.34 +8.37 +8.30 +8.48 +8.68 +8.67 +8.64 +8.31	AUG +10.06 +9.86 +10.20 +9.71 +9.79 +9.67 +9.59	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72
1 2 3 4 5 6 7 8 9 10	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55 +5.68 +5.86	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.75 +2.75 +2.55	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.94 +7.71 +8.13 +8.28 +8.31	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.79 +9.67 +9.59 +9.81 +10.12 +9.84	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35
1 2 3 4 5 6 7 8 9 10	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.32 +4.41 +4.42 +4.46 +4.43	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.61 +5.55 +5.68 +5.86 +5.74	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.75 +2.75 +2.55 +2.82	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.94 +7.71 +8.13 +8.28 +8.31 +8.47	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39 +4.36	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44 +5.49 +5.49	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55 +5.68 +5.86 +5.74 +6.05 +5.66	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.75 +2.75 +2.75 +2.75 +2.55 +2.82 +2.77 +3.00	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75 +4.70 +4.61	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.65	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.24 +10.46	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.72	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81 +11.88 +11.88
1 2 3 4 5 6 7 8 9 10	OCT +4.20 +4.29 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.74 +5.44 +5.44 +5.49 +5.57	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.61 +5.55 +5.68 +5.86 +5.74 +6.05	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.69	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.76 +2.72 +2.55 +2.82 +2.77	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75 +4.75	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.91 +8.13 +8.28 +8.31 +8.47 +8.65	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.12	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81 +11.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.30 +4.41 +4.32 +4.44 +4.43 +4.39 +4.36 +4.54	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44 +5.49 +5.57 +5.49 +5.57 +5.62 +5.53	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55 +5.68 +5.86 +5.86 +5.85 +5.86	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.43 +4.68 +4.47 +4.49 +4.49 +4.49 +4.49 +4.49 +4.49	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.75 +2.75 +2.55 +2.55 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.67 +2.69 +2.96 +3.60	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.76 +4.61 +4.76	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.34 +8.54	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +10.16 +10.00 +9.91 +9.95 +10.12 +10.12 +10.24 +10.42 +10.48	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.92 +8.73 +8.19	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.69 +9.61 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81 +11.88 +11.85 +11.81
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.32 +4.41 +4.32 +4.24 +4.66 +4.39 +4.36 +4.54 +4.67 +4.13	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44 +5.66 +5.49 +5.57 +5.62	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.62 +5.63 +5.68 +5.86 +5.74 +6.05 +5.66 +5.85 +5.84	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.64 +4.37 +4.09	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.75 +2.75 +2.75 +2.75 +2.55 +2.82 +2.77 +3.00 +3.02 +3.04	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +2.96 +3.60 +3.78	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75 +4.70 +4.61 +4.76 +4.61 +5.37	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.34 +8.88	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.44 +10.48 +10.25	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.72 +8.73 +8.19 +8.56	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.26 +11.35 +11.81 +11.88 +11.85 +11.81 +11.88
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +4.20 +4.29 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39 +4.36 +4.54 +4.67 +4.13	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44 +5.49 +5.57 +5.62 +5.53 +5.62	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.61 +5.55 +5.68 +5.86 +5.86 +5.86 +5.85 +5.84 +5.42 +5.59	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.49 +4.67 +4.70 +4.09	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.76 +2.72 +2.55 +2.82 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02 +3.02 +3.04 +3.27	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +3.60 +3.78 +3.67	APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75 +4.70 +4.61 +4.76 +4.61 +5.37 +5.33	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.65 +8.34 +8.88 +7.81	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.42 +10.48 +10.25 +10.14	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.97 +8.96 +8.72 +8.73 +8.19 +8.56 +8.18	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53 +10.41	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81 +11.88 +11.85 +11.81 +11.68 +11.68 +12.46
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.32 +4.41 +4.32 +4.24 +4.66 +4.39 +4.36 +4.54 +4.67 +4.13	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.44 +5.66 +5.49 +5.57 +5.62	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.62 +5.63 +5.68 +5.86 +5.74 +6.05 +5.66 +5.85 +5.84	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.64 +4.37 +4.09	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.75 +2.75 +2.75 +2.75 +2.55 +2.82 +2.77 +3.00 +3.02 +3.04	MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +2.96 +3.60 +3.78	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.75 +4.70 +4.61 +4.76 +4.61 +5.37	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.34 +8.88	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.44 +10.48 +10.25	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.72 +8.73 +8.19 +8.56	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.26 +11.35 +11.81 +11.88 +11.85 +11.81 +11.88
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT +4.20 +4.29 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39 +4.36 +4.54 +4.67 +4.13 +4.67 +4.73	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.49 +5.57 +5.62 +5.53 +5.53 +5.66 +5.44 +5.40 +5.55 +5.76 +5.53	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.61 +5.55 +5.68 +5.86 +5.86 +5.86 +5.85 +5.86 +5.85 +5.84 +5.42 +5.59 +5.88 +5.80 +5.74	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.49 +4.67 +3.59 +3.83 +3.65 +3.34	DA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.76 +2.72 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02 +3.04 +3.27 +3.43 +3.07 +3.10 +3.34 +3.23	ILY LOWES MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +2.96 +3.60 +3.67 +3.66 +3.93 +3.99 +4.13 +4.48	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.70 +4.61 +4.76 +4.61 +5.33 +5.33 +5.44 +5.28 +5.36 +4.67	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.65 +8.34 +8.54 +7.28 +7.15 +6.01 +6.94	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.42 +10.46 +10.42 +10.48 +10.25 +10.14 +10.31 +10.60 +10.53 +10.81	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.72 +8.73 +8.19 +8.56 +8.63 +8.44	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53 +10.41 +10.68 +10.50 +10.79 +10.39 +10.77	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.85 +11.81 +11.88 +11.85 +11.81 +12.66 +12.66 +12.63 +12.49 +12.49 +12.44 +12.44 +12.44 +12.44
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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 25 26 27	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39 +4.36 +4.54 +4.67 +4.13 +4.32 +4.47 +4.73	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.34 +5.74 +5.49 +5.57 +5.62 +5.53 +5.66 +5.49 +5.53 +5.66 +5.49 +5.53 +5.66 +5.49 +5.53	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55 +5.68 +5.86 +5.74 +6.05 +5.85 +5.84 +5.42 +5.59 +5.58 +5.84 +5.42 +5.59 +5.58 +5.42 +5.59 +5.58 +5.42 +5.59 +5.58 +5.42 +5.59 +5.58	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.45 +4.70 +4.09 +3.59 +3.83 +3.65 +3.34 +3.42 +3.55	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.70 +2.75 +2.75 +2.55 +2.55 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02 +3.04 +3.27 +3.43 +3.07 +3.10 +3.27 +3.23 +3.10 +2.76 +3.23 +3.23 +3.10 +2.76 +3.23	ILY LOWES MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +2.96 +3.60 +3.78 +3.66 +3.93 +3.99 +4.13 +4.48 +4.17 +3.40 +2.73 +3.14	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.70 +4.61 +5.37 +5.33 +5.44 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36 +4.67 +5.28 +5.36	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.34 +8.65 +8.34 +8.65 +8.34 +7.28 +7.15 +6.01 +6.36 +6.94 +7.09 +7.39 +8.01 +8.34	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.12 +10.24 +10.46 +10.42 +10.42 +10.48 +10.25 +10.14 +10.31 +10.53 +10.53 +10.53 +10.53 +10.53	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.73 +8.19 +8.56 +8.18 +8.63 +8.44 +8.41 +9.06 +8.34 +8.41 +9.06 +8.82 +8.56	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.69 +9.81 +10.12 +9.84 +10.08 +9.62 +10.08 +9.96 +10.53 +10.41 +10.68 +10.50 +10.79 +10.77 +10.60 +10.79 +10.79 +10.79 +10.79 +10.79 +10.79 +10.79 +10.60 +10.53 +10.59	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.85 +11.81 +11.88 +11.85 +11.81 +12.46 +12.66 +12.63 +12.49 +12.35 +12.37 +12.37 +12.55 +12.53 +12.40
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.30 +4.41 +4.32 +4.24 +4.46 +4.43 +4.39 +4.36 +4.54 +4.67 +4.13 +4.32 +4.67 +4.13 +4.80 +5.08 +5.08	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.74 +5.44 +5.49 +5.57 +5.62 +5.53 +5.62 +5.53 +5.66 +5.44 +5.40 +5.55 +5.76 +6.03 +5.76 +6.03 +5.82 +5.91 +5.91	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.79 +5.62 +5.61 +5.55 +5.68 +5.86 +5.86 +5.85 +5.86 +5.85 +5.84 +5.42 +5.55 +5.47 +4.83 +5.42 +5.42 +5.42	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.45 +4.70 +4.09 +3.59 +3.83 +3.65 +3.71 +3.60 +3.60 +3.20	DA FEB +2.98 +2.64 +2.85 +2.84 +2.70 +2.75 +2.76 +2.72 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02 +3.04 +3.27 +3.43 +3.07 +3.10 +3.34 +3.27 +3.10 +3.23 +3.14 +2.76 +3.03 +2.62 +2.59 +2.64	ILY LOWES MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.67 +2.69 +2.67 +2.69 +3.60 +3.78 +3.93 +3.99 +4.13 +4.17 +3.40 +2.73 +3.14 +3.31	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.70 +4.61 +5.33 +5.33 +5.53 +5.44 +5.28 +5.36 +4.67 +5.94 +6.42 +6.87 +7.22 +7.15 +7.29	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.65 +8.34 +8.65 +8.65 +8.34 +7.28 +7.15 +6.01 +6.94 +7.09 +7.39 +8.01 +8.34 +8.98 +9.43	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.42 +10.48 +10.25 +10.14 +10.31 +10.49 +10.60 +10.53 +10.81 +10.72 +10.53 +10.51 +10.25 +10.31 +9.92	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.92 +8.72 +8.73 +8.19 +8.56 +8.63 +8.41 +9.06 +8.82 +8.56	+10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53 +10.50 +10.39 +10.77 +10.60 +10.28 +10.53 +10.53 +10.59 +10.64 +10.55	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.35 +11.81 +11.88 +11.85 +11.81 +12.46 +12.46 +12.46 +12.46 +12.45 +1
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT +4.20 +4.29 +4.61 +4.35 +4.35 +4.35 +4.32 +4.41 +4.32 +4.46 +4.43 +4.39 +4.36 +4.54 +4.67 +4.13 +4.67 +4.13 +4.86 +4.80 +5.08 +5.08	NOV +5.27 +5.21 +5.13 +5.19 +5.41 +5.57 +5.30 +5.74 +5.44 +5.44 +5.57 +5.62 +5.53 +5.66 +5.44 +5.40 +5.55 +5.76 +5.40 +5.55 +5.76 +5.53 +5.53 +5.66 +5.44 +5.40 +5.55 +5.76 +6.03 +5.76	DEC +6.05 +5.93 +5.55 +5.78 +5.49 +5.62 +5.61 +5.55 +5.68 +5.86 +5.86 +5.86 +5.88 +5.88 +5.89 +5.58 +5.80 +5.59 +5.58 +5.80 +5.58 +5.84 +5.59 +5.58 +5.84 +5.59 +5.58 +5.84	JAN +5.08 +5.04 +5.36 +4.77 +4.78 +4.63 +4.61 +4.80 +4.43 +4.68 +4.37 +4.49 +4.64 +4.37 +4.45 +4.70 +4.09 +3.59 +3.83 +3.65 +3.34 +3.42 +3.55 +3.71 +3.60 +3.60	PA FEB +2.98 +2.64 +2.85 +2.84 +2.74 +2.76 +2.72 +2.55 +2.55 +2.82 +2.77 +3.00 +2.74 +3.02 +3.04 +3.27 +3.43 +3.07 +3.10 +3.23 +3.14 +2.76 +3.03 +3.23 +3.14 +2.76	ILY LOWES MAR +2.74 +2.67 +2.59 +2.53 +2.41 +2.26 +2.01 +2.17 +2.28 +2.29 +2.51 +2.43 +2.67 +2.69 +2.96 +3.60 +3.78 +3.66 +3.93 +3.99 +4.13 +4.48 +4.17 +3.40 +2.73 +3.14 +3.03	T VALUES APR +4.37 +4.61 +4.58 +4.15 +3.93 +4.61 +4.75 +4.20 +4.41 +4.78 +4.59 +4.70 +4.61 +4.76 +4.61 +5.37 +5.33 +5.53 +5.44 +5.28 +5.36 +4.67 +5.94 +6.42 +6.42 +6.87 +7.22 +7.15	MAY +7.75 +7.94 +7.99 +7.93 +7.80 +8.04 +7.71 +8.13 +8.28 +8.31 +8.47 +8.65 +8.65 +8.34 +8.65 +8.34 +7.15 +6.01 +6.94 +7.09 +7.39 +8.01 +8.34 +8.98	JUN +9.88 +9.93 +9.90 +10.00 +10.23 +9.95 +9.96 +10.16 +10.00 +9.91 +9.95 +10.12 +10.46 +10.42 +10.46 +10.42 +10.48 +10.25 +10.14 +10.31 +10.60 +10.53 +10.61 +10.72 +10.53 +10.51 +10.72 +10.53	JUL +9.34 +8.37 +8.30 +8.48 +8.58 +8.67 +8.64 +8.31 +8.25 +8.58 +8.97 +8.96 +8.92 +8.73 +8.19 +8.64 +8.41 +8.63 +8.84 +8.64 +8.41 +9.06 +8.82 +8.56	AUG +10.06 +9.86 +10.20 +9.71 +9.97 +9.67 +9.59 +9.81 +10.12 +9.84 +10.06 +9.62 +10.08 +9.96 +10.40 +10.53 +10.41 +10.68 +10.50 +10.77 +10.60 +10.28 +10.53 +10.41	+10.55 +10.95 +11.30 +11.61 +11.81 +11.88 +11.91 +11.72 +11.42 +11.26 +11.85 +11.81 +11.88 +11.85 +12.66 +12.66 +12.63 +12.49 +12.44 +12.35 +12.37 +12.37 +12.37 +12.37 +12.53

e Estimated

LOW +4.13 +5.13 +4.83 +3.20 +2.55 +2.01 +3.93 +6.01 +9.88 +8.18 +9.59 +10.55

SITE NUMBER 52—Continued
WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY LOWEST VALUES

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		Di	AILY LOWES	ST VALUES	21111 00102	210 2330 1	0 02112112		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	+12.07 +11.84 +11.83 +11.69 +11.72	+13.61 +13.55 +13.79 +13.80 +13.80	+14.24 +14.04 +14.17 +14.16 +14.36	+13.60 +13.94 +14.03 +14.22 +14.24	+13.31 +13.27 +13.22 +13.02 +13.08	+13.96 +13.98 +13.89 +13.45 +13.52	+14.77 +14.71 +14.60 +14.79 +15.16	+15.87 +15.98 +16.41 +16.66 +16.72	+18.05 +17.95 +17.47 +17.87 +18.10	+15.72 +15.98 +16.24 +16.10 +16.08	+17.67 +17.92 +17.58 +17.35 +17.45	+17.64 +17.49 +17.47 +17.36 +17.58
6 7 8 9 10	+11.49 +11.95 +11.89 +11.92 +11.89	+13.77 +13.55 +13.58 +13.65 +13.68	+14.31 +14.01 +14.08 +14.24 +14.13	+14.13 +14.33 +14.36 +14.30 +14.16	+13.11 +13.14 +13.19 +13.22 +13.14	+13.58 +13.73 +13.61 +13.55 +13.61	+14.98 +14.93 +14.65 +14.95 +14.96	+16.73 +16.82 +16.60 +16.29 +16.37	+17.69 +18.10 +17.89 +17.27 +17.13	+16.88 +16.62 +16.73 +16.24 +16.41	+17.24 +17.13 +17.71 +17.15 +17.75	+18.17 +18.05 +17.88 +18.10 +18.36
11 12 13 14 15	+11.65 +11.53 +11.50 +11.77 +11.75	+13.56 +13.60 +13.75 +13.93 +13.94	+13.95 +14.00 +14.12 +13.98 +13.95	+14.06 +13.92 +14.03 +14.16 +13.78	+13.07 +13.24 +13.26 +13.21 +13.17	+13.52 +13.61 +13.41 +13.38 +13.61	+14.97 +14.91 +15.13 +15.23 +14.99	+16.58 +16.66 +16.66 +16.59 +15.98	+17.73 +18.00 +17.98 +17.67 +17.90	+16.05 +16.15 +16.41 +15.74 +16.39	+17.96 +17.96 +17.97 +18.06 +17.53	+18.02 +18.34 +18.43 +18.36 +18.46
16 17 18 19 20	+11.75 +11.70 +11.85 +11.93 +11.80	+13.89 +13.76 +13.70 +13.89 +13.85	+14.12 +13.91 +13.98 +13.97 +14.23	+13.65 +13.86 +14.02 +13.91 +14.10	+13.27 +13.74 +13.82 +13.68 +13.84	+13.70 +13.28 +12.91 +13.18 +13.19	+15.01 +15.23 +15.54 +15.81 +15.88	+15.70 +16.01 +16.47 +16.46 +15.57	+16.83 +17.21 +17.15 +17.40 +17.34	+16.46 +15.90 +15.81 +16.51 +17.17	+17.63 +17.76 +17.96 +17.47 +17.41	+17.50 +17.87 +18.44 +18.31 +18.26
21 22 23 24 25	+11.68 +11.60 +11.69 +11.77 +11.86	+13.92 +14.03 +13.89 +13.85 +13.68	+14.05 +13.99 +13.78 +13.64 +13.77	+13.89 +13.63 +13.73 +13.49 +13.44	+13.76 +13.71 +13.61 +13.69 +13.95	+13.38 +13.46 +13.57 +14.18 +14.28	+15.94 +15.89 +15.94 +15.81 +15.55	+15.45 +15.55 +15.58 +16.32 +16.54	+16.79 +16.58 +16.07 +15.96 +15.73	+17.59 +17.43 +17.59 +17.58 +17.73	+17.67 +17.17 +17.53 +17.83 +17.95	+18.34 +18.44 +18.31 +18.45 +18.49
26 27 28 29 30 31	+11.76 +11.61 +11.65 +12.10 +12.75 +13.33	+13.68 +13.64 +14.13 +14.13 +14.23	+13.61 +14.00 +13.72 +13.70 +13.67 +13.50	+13.52 +13.24 +13.28 +13.16 +13.54 +13.45	+14.07 +14.23 +13.95 	+14.54 +14.84 +14.80 +14.63 +14.73 +14.95	+15.53 +15.61 +15.75 +15.70 +15.66	+16.74 +17.38 +17.74 +17.86 +18.00 +18.03	+16.03 +15.65 +16.14 +16.61 +16.46	+17.68 +17.48 +17.52 +17.28 +17.61 +17.94	+17.50 +17.70 +18.24 +17.34 +17.80 +17.76	+18.50 +18.53 +18.51 +18.22 +17.58
LOW	+11.49	+13.55	+13.50	+13.16	+13.02	+12.91	+14.60	+15.45	+15.65	+15.72	+17.13	+17.36
		MATER TEXT	יים דאן היי	ET ADOLE	TAND CIDE	ACE DATEM	MATED V	EAD OCTOR	ED 1007 E	O CEDTEMD	ED 1000	
		WATER LEV	EL, IN FE	ET ABOVE		ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET ABOVE JAN				EAR OCTOB	ER 1997 T JUN	O SEPTEMB	ER 1998 AUG	SEP
DAY 1 2 3 4 5					Dž	AILY LOWES	ST VALUES					SEP +17.67 +17.58 +17.09 +16.66 +17.45
1 2 3 4	OCT +18.06 +18.58 +18.67 +18.53	NOV +18.75 +18.65 +18.68 +18.68	DEC +17.78 +17.58 +17.57 +17.50	JAN +16.34 +16.32 +16.22 +16.22	FEB +15.16 +14.94 +14.94 +15.06	MAR +14.14 +14.22 +14.17 +14.07	APR +15.08 +15.03 +15.11 +15.28	MAY +17.34 +16.67 +16.76 +17.14	JUN +17.39 +17.30 +17.50 +17.58	JUL +17.72 +17.79 +17.66 +17.64	AUG +17.69 +17.44 +17.41 +17.28	+17.67 +17.58 +17.09 +16.66
1 2 3 4 5 6 7 8 9	OCT +18.06 +18.58 +18.67 +18.53 +18.58 +17.97 +18.46 +18.65 +18.48 +18.19 +18.68	NOV +18.75 +18.65 +18.68 +18.68 +18.65 +18.75 +18.75 +18.58	DEC +17.78 +17.58 +17.57 +17.50 +17.45 +17.43 +17.57 +17.47 +17.20 +17.01 +16.92	JAN +16.34 +16.32 +16.22 +16.22 +16.15 +15.97 +16.07 +15.91 +15.78	FEB +15.16 +14.94 +15.06 +14.88 +14.94 +14.88 +14.96 +14.85 +14.68	MAR +14.14 +14.22 +14.17 +14.07 +14.06 +14.18 +14.03 +13.93 +13.95 +13.74 +13.73	APR +15.08 +15.03 +15.11 +15.28 +15.53 +16.42 +16.42 +16.42 +16.67 +16.80 +17.05	MAY +17.34 +16.67 +16.76 +17.14 +16.67 +17.15 +17.32 +17.31 +17.28 +17.13	JUN +17.39 +17.30 +17.50 +17.58 +16.95 +16.71 +17.40 +17.68 +17.52 +17.89 +17.80	JUL +17.72 +17.79 +17.66 +17.64 +17.41 +17.57 +17.34 +17.31 +17.65	AUG +17.69 +17.41 +17.28 +17.27 +17.45 +17.38 +16.88 +17.24 +17.41	+17.67 +17.58 +17.09 +16.66 +17.45 +16.48 +17.48 +17.74 +17.45
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT +18.06 +18.58 +18.67 +18.53 +18.58 +17.97 +18.46 +18.65 +18.48 +18.19 +18.68 +18.67 +18.31 +18.43	NOV +18.75 +18.65 +18.68 +18.65 +18.65 +18.75 +18.75 +18.73 +18.73 +18.73 +18.75 +18.75	DEC +17.78 +17.58 +17.57 +17.50 +17.45 +17.43 +17.57 +17.47 +17.20 +17.01 +16.96 +16.96 +16.96	JAN +16.34 +16.32 +16.22 +16.15 +15.97 +16.07 +15.91 +15.91 +15.78 +15.78 +15.78	FEB +15.16 +14.94 +15.06 +14.88 +14.94 +15.06 +14.88 +14.96 +14.85 +14.71 +14.71	MAR +14.14 +14.22 +14.17 +14.07 +14.06 +14.18 +14.03 +13.93 +13.95 +13.74 +13.73 +13.96 +13.89 +13.99	APR +15.08 +15.03 +15.11 +15.28 +15.53 +16.42 +16.42 +16.47 +16.80 +16.78 +17.05 +17.05 +17.05 +17.05 +17.09	MAY +17.34 +16.67 +16.76 +17.14 +16.67 +17.15 +17.32 +17.31 +17.28 +17.13 +17.21 +17.18 +17.14 +17.43	JUN +17.39 +17.50 +17.58 +16.95 +16.71 +17.40 +17.68 +17.52 +17.89 +17.66 +17.66 +17.67	JUL +17.72 +17.79 +17.66 +17.64 +17.41 +17.57 +17.34 +17.31 +17.65 +17.12 +17.18 +16.60 +17.20 +17.34	AUG +17.69 +17.41 +17.28 +17.27 +17.45 +17.38 +16.88 +17.24 +17.41 +17.50 +17.88 +17.55 +17.55	+17.67 +17.58 +17.09 +16.66 +17.45 +16.48 +17.48 +17.45 +16.94 +16.85 +17.73 +18.09 +17.74
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT +18.06 +18.58 +18.67 +18.53 +18.58 +17.97 +18.46 +18.65 +18.48 +18.19 +18.68 +18.67 +18.31 +18.43 +18.35 +18.42 +18.61 +18.59 +18.59	NOV +18.75 +18.65 +18.68 +18.65 +18.65 +18.75 +18.75 +18.58 +18.73 +18.71 +18.73 +18.56 +18.56 +18.56	DEC +17.78 +17.58 +17.57 +17.50 +17.45 +17.43 +17.57 +17.47 +17.20 +17.01 +16.92 +16.96 +16.96 +16.96 +16.98 +16.98 +16.98	JAN +16.34 +16.32 +16.22 +16.15 +15.97 +16.07 +15.91 +15.78 +15.81 +15.78 +15.68 +15.64 +15.59 +15.48	FEB +15.16 +14.94 +14.94 +15.06 +14.88 +14.96 +14.85 +14.71 +14.71 +14.76 +14.74 +14.60 +14.41	MAR +14.14 +14.22 +14.17 +14.07 +14.06 +14.18 +14.13 +13.93 +13.95 +13.74 +13.73 +13.96 +13.89 +13.90 +13.84 +14.01 +14.10 +13.90 +13.98	APR +15.08 +15.03 +15.11 +15.28 +15.53 +15.62 +16.42 +16.67 +16.80 +17.05 +17.05 +17.15 +17.09 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15 +17.15	MAY +17.34 +16.67 +16.76 +17.14 +16.67 +17.15 +17.32 +17.31 +17.28 +17.13 +17.28 +17.13 +17.26 +17.52 +17.65 +17.52 +17.02 +16.76	JUN +17.39 +17.50 +17.58 +16.95 +16.71 +17.40 +17.68 +17.52 +17.89 +17.80 +17.63 +17.63 +17.85 +17.85	JUL +17.72 +17.79 +17.66 +17.64 +17.41 +17.57 +17.34 +17.65 +17.12 +17.18 +16.60 +17.20 +17.34 +16.67 +17.24 +16.57 +16.54	AUG +17.69 +17.44 +17.41 +17.28 +17.27 +17.45 +17.38 +16.88 +17.24 +17.41 +17.50 +17.88 +17.55 +17.55 +17.55 +17.75 +17.75 +17.75 +17.75	+17.67 +17.58 +17.09 +16.66 +17.45 +16.48 +17.48 +17.45 +16.94 +16.85 +17.73 +18.09 +17.74 +17.72 +17.84 +17.19 +17.26 +17.89
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT +18.06 +18.58 +18.67 +18.53 +18.58 +17.97 +18.46 +18.65 +18.48 +18.19 +18.68 +18.31 +18.43 +18.35 +18.42 +18.61 +18.53 +18.46 +18.41 +18.68 +18.41 +18.68 +18.41 +18.68	NOV +18.75 +18.65 +18.68 +18.65 +18.65 +18.75 +18.58 +18.73 +18.71 +18.73 +18.56 +18.63 +18.63 +18.63 +18.63 +18.56 +18.63 +18.56 +18.63 +18.56 +18.63 +18.56	DEC +17.78 +17.58 +17.57 +17.50 +17.45 +17.43 +17.57 +17.47 +17.20 +17.01 +16.92 +16.96 +16.96 +16.96 +16.60 +16.85 +16.60 +16.80 +16.49 +16.49	JAN +16.34 +16.32 +16.22 +16.22 +16.15 +15.97 +16.07 +15.91 +15.78 +15.78 +15.68 +15.64 +15.59 +15.49 +15.48 +15.55 +15.49	FEB +15.16 +14.94 +14.94 +15.06 +14.88 +14.96 +14.85 +14.57 +14.68 +14.71 +14.71 +14.74 +14.59 +14.60 +14.41 +14.59 +14.63 +14.59 +14.63 +14.40 +14.40	MAR +14.14 +14.22 +14.17 +14.07 +14.06 +14.18 +14.03 +13.95 +13.74 +13.73 +13.96 +13.89 +13.90 +13.84 +14.01 +14.10 +13.90 +13.98 +14.12 +14.28 +14.46	APR +15.08 +15.03 +15.11 +15.28 +15.53 +15.62 +16.42 +16.67 +16.80 +17.05 +17.05 +17.15 +17.15 +17.15 +17.15 +17.15 +17.14 +16.46 +16.98 +17.22 +17.00	MAY +17.34 +16.67 +16.76 +17.14 +16.67 +17.32 +17.31 +17.28 +17.13 +17.28 +17.13 +17.29 +17.65 +17.65 +17.65 +17.65 +17.65 +17.61 +17.61 +17.61 +17.61	JUN +17.39 +17.50 +17.50 +17.58 +16.95 +16.71 +17.40 +17.68 +17.52 +17.89 +17.80 +17.63 +17.63 +17.85 +17.74 +17.83 +18.00 +18.33 +18.70 +18.42 +17.93 +18.16	JUL +17.72 +17.66 +17.66 +17.64 +17.31 +17.57 +17.34 +17.65 +17.12 +17.18 +16.60 +17.20 +17.34 +16.57 +16.57 +16.54 +16.54 +16.54 +16.54 +16.7	AUG +17.69 +17.44 +17.41 +17.28 +17.27 +17.45 +17.38 +16.88 +17.24 +17.41 +17.50 +17.88 +17.55 +17.55 +17.55 +17.65 +17.68 +18.11 +18.11 +18.31	+17.67 +17.58 +17.09 +16.66 +17.45 +16.48 +17.48 +17.45 +16.94 +16.85 +17.73 +18.09 +17.74 +17.72 +17.84 +17.19 +17.26 +17.89 +18.12 +18.03 +18.03 +18.03 +18.04 +18.03 +18.04 +18.03 +18.04 +1

SITE NUMBER FROM LOCATION MAP.—53.

COUNTY.—Pennington.

LOCAL WELL NUMBER.—2S7E17CCAA.

SITE ID (STATION NUMBER).—435227103185301.

OTHER IDENTIFIERS.—PE-95A and Hayward.

LOCATION.—Lat 43°52′27.3″, long 103°18′52.7″, in NE¹/4NE¹/4SW¹/4SW¹/4 sec. 17, T. 2 S., R. 7 E., Hydrologic Unit 10120109, 1 mi east of Hayward. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 540 ft deep with 400 ft of 5-in. steel casing; open hole from 400 to 540 ft.

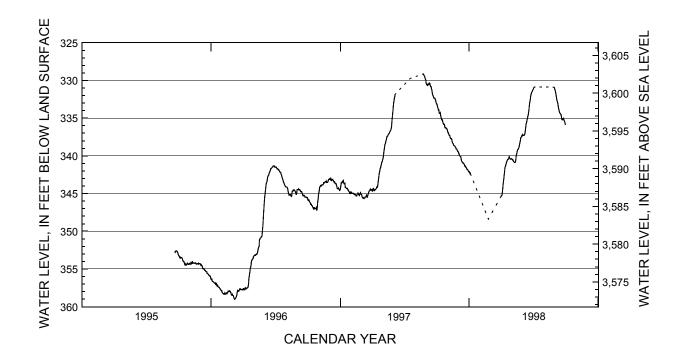
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,931.7 ft above sea level. Measuring point: Top of steel casing, 2.4 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1995 to September 1998.

EXTREMES.—Highest daily water level, 329.14 ft below land-surface datum, Aug. 24, 1997; lowest daily water level, 359.02 ft below land-surface datum, Mar. 8, 1996.



WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY LOWEST VALUES

					DAI	LI LOMESI	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												352.80
21												352.82
22												352.66
23												352.64
24												352.64
25												352.60
26												352.63
27												352.71
28												352.75
29												352.88
30												353.09
31												
LOW												353.09

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353.19	354.33	354.30	356.39	358.06	358.36	357.75	353.30	345.42	341.45	344.14	344.47
2	353.29	354.36	354.37	356.42	358.14	358.50	357.54	353.21	345.01	341.48	344.13	344.47
3	353.29	354.37	354.51	356.27	358.22	358.50	357.70	353.16	344.62	341.54	344.16	344.47
4	353.36	354.36	354.42	356.59	358.26	358.55	357.76	353.21	344.15	341.52	344.25	344.47
5	353.57	354.13	354.52	356.65	358.32	358.73	357.76	353.22	343.72	341.62	344.35	344.40
6	353.57	354.19	354.60	356.69	358.27	358.86	357.59	353.13	343.57	341.73	344.69	344.55
7	353.45	354.32	354.60	356.69	358.30	359.01	357.44	353.13	343.47	341.71	344.93	344.53
8	353.47	354.29	354.86	356.73	358.35	359.02	357.67	353.04	343.17	341.79	345.04	344.49
9	353.49	353.99	354.94	356.79	358.19	358.95	357.67	353.07	342.91	341.82	345.23	344.54
10	353.50	354.24	355.00	356.83	358.31	358.90	357.56	353.05	342.72	341.79	345.17	344.70
11	353.56	354.24	354.94	356.90	358.35	358.85	357.54	352.89	342.60	341.94	345.08	344.76
12	353.72	354.19	354.97	356.92	358.30	358.70	357.53	352.68	342.56	341.99	345.07	344.76
13	353.92	354.24	355.00	356.85	358.17	358.56	357.48	352.52	342.39	342.08	345.24	344.73
14	353.93	354.22	355.17	357.05	358.15	358.46	357.48	352.19	342.22	342.15	345.30	344.83
15	354.01	354.23	355.18	357.01	358.27	358.11	357.31	352.10	342.15	342.16	345.35	344.95
16	354.00	354.22	355.21	356.86	358.18	357.83	356.99	352.03	342.01	342.19	345.37	345.08
17	354.18	354.24	355.36	357.17	358.16	357.84	356.40	351.16	341.93	342.39	344.98	345.29
18	354.27	354.18	355.35	357.25	357.95	357.89	356.01	351.08	341.69	342.53	344.68	345.31
19	354.48	354.32	355.35	357.14	357.91	357.96	355.60	350.91	341.68	342.66	344.72	345.29
20	354.48	354.36	355.40	357.22	357.98	357.93	355.31	350.90	341.63	342.79	344.61	345.22
21	354.34	354.35	355.59	357.36	357.99	357.78	354.92	350.88	341.57	343.01	344.51	345.26
22	354.49	354.30	355.61	357.42	357.90	357.74	354.77	350.74	341.53	343.15	344.56	345.34
23	354.48	354.33	355.63	357.40	357.94	357.53	354.51	350.68	341.45	343.29	344.54	345.48
24	354.42	354.30	355.70	357.42	357.96	357.74	354.16	350.67	341.45	343.47	344.52	345.48
25	354.36	354.31	355.74	357.53	358.12	357.75	353.85	350.21	341.35	343.54	344.62	345.48
26 27 28 29 30 31	354.24 354.31 354.34 354.40 354.39 354.26	354.24 354.36 354.31 354.28 354.30	355.88 355.92 355.90 355.95 355.97 356.19	357.60 357.67 357.70 357.85 357.89 357.86	358.12 358.40 358.47 358.46	357.71 357.75 357.74 357.70 357.78 357.78	353.83 353.69 353.66 353.64 353.35	349.61 348.99 348.21 347.34 346.54 345.95	341.34 341.30 341.38 341.49 341.50	343.70 343.82 343.95 344.02 344.10 344.14	344.69 344.80 344.98 345.11 345.09 344.70	345.49 345.49 345.56 345.61 345.50
LOW	354.49	354.37	356.19	357.89	358.47	359.02	357.76	353.30	345.42	344.14	345.37	345.61

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

	,	WATER LEV	EL, IN FE	EET BELOW	LAND-SURE D	FACE DATUM AILY LOWE:		EAR OCTOE	ER 1996 '	ro septeme	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	345.82	344.89	343.04	344.44	344.91 344.90	345.14	344.64	340.47	332.95			330.39
3	345.92 345.84	344.67 344.34	343.12 343.13	344.10 343.82	344.90	345.13 345.30	344.69 344.61	340.28 340.03	332.67 332.40			330.53 330.54
4 5	345.84 346.00	344.10 344.04	343.16 342.98	343.53 343.57	345.00 344.99	345.45 345.58	344.33 344.31	339.59 339.21	332.18 331.83			330.65 330.68
6 7	346.12 346.16	343.95 344.02	343.12 343.28	343.57 343.40	344.98 345.02	345.57 345.54	344.50 344.61	338.93 338.50				330.62 330.44
8	346.25	344.01	343.26	343.34	344.98	345.65	344.61	338.41				330.51
9 10	346.44 346.43	343.89 343.83	343.15 343.12	343.26 343.42	345.10 345.14	345.68 345.58	344.49 344.47	338.31 338.01				330.51 330.45
11 12	346.42 346.58	343.88 343.87	343.21 343.26	343.65 343.74	345.17 345.14	345.59 345.47	344.47 344.37	337.87 337.73				330.36 330.55
13	346.60	343.84	343.34	343.73	345.17	345.45	344.29	337.42				330.70
14 15	346.75 346.77	343.70 343.54	343.51 343.51	343.64 344.17	345.23 345.34	345.45 345.35	344.16 344.21	337.42 337.40				330.81 330.83
16	346.88	343.56	343.46	344.17	345.31	345.23	344.17	337.25				331.16
17	347.05	343.59	343.46	344.17	345.19	345.40	344.17	337.25				331.10
18	347.03	343.57	343.69	344.34	345.07	345.48	343.51	337.07		e329.74		331.54
19 20	346.81 346.99	343.43 343.47	343.70 343.69	344.33 344.30	345.04 344.92	345.34 345.23	343.15 342.80	337.07 336.92				331.88 331.97
21	347.05	343.46	343.92	344.36	344.96	345.02	342.35					332.04
22	347.05	343.46	343.92	344.36	344.96	345.02	342.35	336.82 336.72				332.04
23	346.97	343.55	344.31	344.47	345.20	344.75	341.95	336.69				332.37
24 25	346.97 346.85	343.55 343.48	344.35 344.38	344.66 344.68	345.26 345.06	344.66 344.65	341.64 341.58	336.54 336.39			329.14 329.26	332.33 332.36
	247 10		344.38		244 00			336.08				
26 27	347.19 347.16	343.49 343.46	344.38	344.76 344.91	344.98 344.87	344.53 344.40	341.35 341.21	336.08			329.35 329.43	332.37 332.59
28	346.71	343.21	344.43	344.85	345.03	344.49	340.87	335.03			329.53	332.70
29 30	346.04 345.74	343.14 343.14	344.48 344.60	344.94 344.80		344.55 344.55	340.81 340.73	334.39 333.92			329.72 329.85	332.93 333.08
31	345.30		344.54	344.77		344.42		333.45			329.97	
LOW	347.19	344.89	344.60	344.94	345.34	345.68	344.69	340.47	332.95	329.74	329.97	333.08
	,	WAMED IES			TAND CUDE	אווייי אין האיי		TEAD OCTOR	ED 1007	TO SEPTEMB	FD 1000	
		WAIER LEV	EL, IN FE	EEL BETOM		AILY LOWE:		EAR OCIOE	SER 1997 .	IO DEFIEME	EK 1990	
DAY	OCT	NOV	DEC	JAN				MAY	JUN	JUL	AUG	SEP
1	OCT 333.17	NOV 336.80	DEC 339.50	JAN 342.09	D. FEB	AILY LOWE: MAR	ST VALUES APR 345.33	MAY 340.44	JUN 337.20	JUL 331.18	AUG	331.31
1 2	OCT 333.17 333.16	NOV 336.80 336.95	DEC 339.50 339.66	JAN 342.09 342.22	D. FEB 	AILY LOWE: MAR 	APR 345.33 345.32	MAY 340.44 340.47	JUN 337.20 337.30	JUL 331.18 331.02	AUG	331.31 331.45
1 2 3 4	OCT 333.17 333.16 333.46 333.63	NOV 336.80 336.95 336.95 337.17	DEC 339.50 339.66 339.66 339.91	JAN 342.09 342.22 342.37 342.31	D. FEB	AILY LOWE: MAR	APR 345.33 345.32 345.30 345.12	MAY 340.44 340.47 340.46 340.56	JUN 337.20 337.30 337.30 337.28	JUL 331.18	AUG	331.31 331.45 331.76 331.99
1 2 3	OCT 333.17 333.16 333.46	NOV 336.80 336.95 336.95	DEC 339.50 339.66 339.66	JAN 342.09 342.22 342.37	D. FEB 	AILY LOWE: MAR	APR 345.33 345.32 345.30	MAY 340.44 340.47 340.46	JUN 337.20 337.30 337.30	JUL 331.18 331.02 330.95	AUG 	331.31 331.45 331.76
1 2 3 4 5	OCT 333.17 333.16 333.46 333.63 333.77 333.97	NOV 336.80 336.95 336.95 337.17 337.25	DEC 339.50 339.66 339.66 339.91 340.01	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	AILY LOWE: MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26	MAY 340.44 340.47 340.46 340.56 340.54	JUN 337.20 337.30 337.30 337.28 337.29	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27
1 2 3 4 5	OCT 333.17 333.16 333.46 333.63 333.77 333.97	NOV 336.80 336.95 336.95 337.17 337.25 337.27	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.03	JAN 342.09 342.22 342.37 342.31 342.48	D FEB 	AILY LOWE: MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77	MAY 340.44 340.47 340.46 340.56 340.54 340.70 340.75	JUN 337.20 337.30 337.28 337.29 337.23	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78
1 2 3 4 5 6 7 8 9	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.03 340.14 340.42	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93	MAY 340.44 340.47 340.46 340.56 340.54 340.75 340.75 340.84 340.88	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.96	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14
1 2 3 4 5 6 7 8	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.03 340.14	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33	MAY 340.44 340.47 340.46 340.56 340.54 340.70 340.75 340.84	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93
1 2 3 4 5 6 7 8 9 10	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.97 334.31 334.39 334.31	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.03 340.14 340.42 340.65	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57	MAY 340.44 340.47 340.46 340.56 340.54 340.75 340.84 340.88 340.90 340.87	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.62 336.20	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43
1 2 3 4 5 6 7 8 9 10	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.77	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.03 340.14 340.42 340.65	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57	MAY 340.44 340.47 340.46 340.56 340.54 340.70 340.75 340.84 340.88 340.90	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.62 336.20	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.64 334.88 335.05	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67 337.75 337.75 337.92 338.22	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.89	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.45 341.33	MAY 340.44 340.47 340.46 340.56 340.54 340.75 340.84 340.88 340.90 340.87 340.79 340.44	JUN 337.20 337.30 337.28 337.29 337.25 336.62 336.62 335.81 335.60 335.45 335.13	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43 333.75 333.92 34.16 334.31
1 2 3 4 5 6 7 8 9 10 11 12 13	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.60 337.77 337.67	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.14 340.42 340.65 340.75 340.82	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.54	MAY 340.44 340.47 340.46 340.54 340.70 340.75 340.84 340.88 340.90 340.87 340.79	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.62 336.20 335.81 335.60 335.84	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 333.92 334.16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.64 334.88 335.05 335.25	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67 337.75 337.92 338.22 338.30	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.82 340.88 341.00	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96	MAY 340.44 340.47 340.54 340.75 340.75 340.84 340.90 340.79 340.44 340.13 339.80	JUN 337.20 337.30 337.28 337.29 337.25 336.62 336.62 335.81 335.60 335.45 335.13 335.02	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 333.92 34.16 334.31 334.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.31 334.31 334.64 334.88 335.05 335.25	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.67 337.70 337.67 337.75 337.92 338.22 338.30	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.88 340.08 341.01 341.01	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80	MAY 340.44 340.47 340.46 340.56 340.54 340.75 340.84 340.79 340.79 340.44 340.01 339.80 339.61 339.30	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 335.45 335.45 335.13 335.02	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43 333.75 333.92 334.16 334.31 334.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.64 334.88 335.05 335.25 335.26 335.26 335.23 335.66	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67 337.75 337.92 338.22 338.30 338.37 338.49 338.49 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.03 341.19 341.35	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.68	MAY 340.44 340.47 340.54 340.75 340.75 340.84 340.90 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.19 339.17	JUN 337.20 337.30 337.28 337.29 337.25 336.62 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.29	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 333.92 334.16 334.31 334.35 334.36
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.31 334.88 335.05 335.26 335.25	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.60 337.67 337.77 337.75 337.92 338.22 338.30 338.37 338.49 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.14 340.42 340.65 340.75 340.82 340.88 341.00 341.01 341.03 341.19	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68	MAY 340.44 340.47 340.46 340.54 340.70 340.75 340.84 340.89 340.87 340.87 340.87 340.87 340.83 340.90	JUN 337.20 337.30 337.30 337.28 337.29 337.23 337.15 336.96 336.62 336.62 335.81 335.60 335.45 335.13 335.02	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 334.39 334.31 334.35 334.39 334.50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.88 335.05 335.25 335.26 335.25 335.26 335.23 335.82	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.60 337.70 337.67 337.75 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.03 341.19 341.35 341.30	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.45	MAY 340.44 340.47 340.54 340.75 340.75 340.84 340.90 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.19 339.17 339.07	JUN 337.20 337.30 337.28 337.29 337.35 336.69 336.62 336.62 335.45 335.13 335.02 334.68 334.58 334.29 333.88 333.33	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 333.92 334.16 334.31 334.35 334.36 334.50 334.50
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.64 334.88 335.05 335.25 335.26 335.23 335.50 335.66 335.82	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67 337.75 337.92 338.30 338.37 338.49 338.62 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 341.00 341.01 341.03 341.19 341.35 341.30	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.45 340.45	MAY 340.44 340.47 340.46 340.56 340.75 340.84 340.90 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.62 335.45 335.45 335.50 335.45 335.45 335.33 335.02	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.78 333.14 333.43 333.75 333.92 34.16 334.31 334.35 334.36 334.31 334.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.31 334.88 335.05 335.25 335.26 335.26 335.26 335.80 335.80 335.80 335.80	NOV 336.80 336.95 336.95 337.17 337.25 337.27 337.60 337.67 337.75 337.75 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.69 338.81 338.84 338.91	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.35 341.30 341.50 341.50 341.50 341.50	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.45 340.41 340.30 340.12	MAY 340.44 340.47 340.54 340.70 340.75 340.84 340.89 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07 338.98 338.86 338.57 338.35	JUN 337.20 337.30 337.28 337.29 337.25 337.15 336.96 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.58 334.58 334.58 334.58 334.58	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 334.16 334.31 334.35 334.50 334.50 334.50 334.50 335.16
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 333.16 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.88 335.05 335.25 335.25 335.26 335.83 335.83 335.83	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.60 337.67 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.62 338.62 338.69 338.81 338.81	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.42 340.65 340.75 340.82 340.82 340.89 341.00 341.01 341.03 341.19 341.35 341.30 341.36	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.45 340.41 340.30	MAY 340.44 340.47 340.54 340.54 340.70 340.75 340.84 340.90 340.87 340.87 340.89 340.90 339.61 339.30 339.17 339.07	JUN 337.20 337.30 337.30 337.28 337.29 337.23 337.15 336.96 336.62 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.58 334.58 333.33 333.22 334.68	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 334.36 334.31 334.35 334.36 334.36 335.16
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	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.31 334.88 335.05 335.25 335.26 335.26 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.67 337.67 337.75 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.69 338.81 338.84 338.91 339.09	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.35 341.30 341.50 341.50 341.50 341.50 341.74	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.41 340.30 340.41 340.30 340.12 340.23	MAY 340.44 340.47 340.54 340.70 340.75 340.84 340.89 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07 338.98 338.57 338.17	JUN 337.20 337.30 337.28 337.29 337.23 337.15 336.96 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.58 334.58 334.58 334.58 334.58 334.68 334.58	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43 333.75 334.31 334.31 334.35 334.50 334.52 334.50 335.16
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.39 334.41 334.31 334.64 334.88 335.05 335.25 335.26 335.26 335.23 335.56 335.89 336.22 336.29 336.26	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.60 337.77 337.75 337.92 338.22 338.30 338.37 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.69 338.81 338.84	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.35 341.30 341.36 341.50 341.50 341.66 341.74	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.51 340.51 340.41 340.45 340.41 340.30 340.12 340.23	MAY 340.44 340.47 340.46 340.56 340.75 340.84 340.90 340.87 340.44 340.91 339.80 339.61 339.30 339.17 339.07 338.86 338.57 338.35 338.17	JUN 337.20 337.30 337.28 337.29 337.25 336.62 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.29 333.88 333.33 333.02 332.78 332.44 332.10 331.89	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 334.36 334.31 334.35 334.36 334.50 334.50 334.52 335.16
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.31 334.64 335.25 335.25 335.26 335.25 335.26 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80	NOV 336.80 336.95 337.17 337.25 337.27 337.32 337.60 337.67 337.77 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.03 341.35 341.30 341.50 341.50 341.50 341.50 341.89	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.54 341.33 341.10 340.96 340.80 340.51 340.50 340.41 340.30 340.41 340.30 340.12 340.23 340.38 340.44 340.45 340.44	MAY 340.44 340.47 340.54 340.70 340.75 340.84 340.88 340.90 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07 338.98 338.57 338.17 337.88 337.52 337.47	JUN 337.20 337.30 337.30 337.28 337.29 337.15 336.96 336.62 335.45 335.13 335.02 334.68 334.58 334.58 333.33 333.02 332.78 332.10 331.89 331.66 331.32	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43 333.75 334.39 334.35 334.35 334.35 334.50 334.50 335.16 335.16 335.22 335.14 335.22 335.14 335.26
1 2 3 4 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 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.88 335.05 335.25 335.25 335.25 335.80 335.80 335.80 335.80 335.80 335.80 335.80 336.22 336.29	NOV 336.80 336.95 337.17 337.25 337.27 337.60 337.60 337.77 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.42 340.65 340.75 340.82 340.88 341.00 341.01 341.35 341.30 341.36 341.50 341.50 341.66 341.74	JAN 342.09 342.22 342.37 342.31 342.48	D FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.30 340.96 340.80 340.68 340.51 340.50 340.41 340.45 340.41 340.23 340.38	MAY 340.44 340.47 340.54 340.54 340.70 340.75 340.84 340.90 340.87 340.87 340.89 340.87 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07	JUN 337.20 337.30 337.30 337.23 337.15 336.96 336.62 335.81 335.60 335.45 335.13 335.02 334.68 334.58 334.29 333.88 333.33 333.02 332.78 332.10 331.89 331.66 331.58	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.93 333.14 333.43 333.75 334.36 334.31 334.35 334.35 334.50 334.50 334.50 335.16 335.12 335.12 335.14 335.12 335.14 335.12 335.12 335.50
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 31 31 31 31 31 31 31 31 31 31 31 31	OCT 333.17 333.16 333.46 333.63 333.77 333.94 334.31 334.39 334.41 334.31 334.64 335.25 335.25 335.26 335.25 335.26 335.82 335.80 335.80 335.80 335.82 336.22 336.29 336.26 336.28 336.28 336.28 336.28 336.28 336.28	NOV 336.80 336.95 337.17 337.25 337.27 337.32 337.60 337.67 337.77 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62 338.62	DEC 339.50 339.66 339.66 339.91 340.01 340.04 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.03 341.35 341.30 341.40 341.50 341.50 341.50 341.50 341.50 341.50 341.50 341.95 342.12	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.54 341.33 341.10 340.96 340.80 340.51 340.50 340.41 340.30 340.12 340.23 340.38 340.44 340.45 340.43 340.38	MAY 340.44 340.47 340.46 340.54 340.70 340.75 340.84 340.89 340.87 340.79 340.79 340.44 340.01 339.80 339.61 339.30 339.17 339.07 338.98 338.86 338.57 338.35 338.17	JUN 337.20 337.30 337.30 337.28 337.29 337.15 336.96 336.62 336.62 335.45 335.13 335.02 334.68 334.58 334.58 333.33 333.02 332.78 332.10 331.89 331.66 331.58 331.46 331.58	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 332.93 333.14 333.43 333.75 334.35 334.35 334.36 335.16 335.22 335.16 335.22 335.12 335.36 335.36 335.36 335.36 335.36
1 2 3 4 4 5 6 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 41 20 41 41 41 41 41 41 41 41 41 41 41 41 41	OCT 333.17 333.16 333.46 333.63 333.77 333.97 333.94 334.31 334.31 334.64 334.88 335.05 335.25 335.26 335.25 335.26 335.82 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80 335.80	NOV 336.80 336.95 337.17 337.25 337.27 337.32 337.60 337.70 337.67 337.75 337.92 338.22 338.30 338.37 338.49 338.62 338.62 338.62 338.62 338.91 339.09 339.12 339.27 339.40 339.40	DEC 339.50 339.66 339.66 339.91 340.01 340.03 340.14 340.42 340.65 340.75 340.82 340.89 340.88 341.00 341.01 341.03 341.19 341.35 341.30 341.50 341.50 341.50 341.50 341.50 341.50 341.95 342.12	JAN 342.09 342.22 342.37 342.31 342.48	D. FEB	MAR	APR 345.33 345.32 345.30 345.12 344.74 344.26 343.77 343.33 342.93 342.57 342.14 341.54 341.45 341.33 341.10 340.96 340.80 340.68 340.51 340.50 340.41 340.30 340.43 340.43 340.43	MAY 340.44 340.47 340.54 340.75 340.84 340.90 340.87 340.44 340.01 339.80 339.61 339.30 339.17 339.07 338.86 338.57 338.35 338.17	JUN 337.20 337.30 337.28 337.29 337.25 336.62 336.62 335.45 335.45 335.13 335.02 334.68 334.58 334.58 334.29 331.88 333.33	JUL 331.18 331.02 330.95 330.91	AUG	331.31 331.45 331.76 331.99 332.27 332.62 332.78 333.14 333.43 333.75 334.31 334.35 334.31 334.35 334.50 334.50 334.50 335.22 335.14 335.22 335.12 335.22 335.14 335.26 335.26 335.26 335.26 335.26 335.26 335.26 335.26 335.26 335.28 335.36 335.50 335.89

e Estimated

SITE NUMBER FROM LOCATION MAP.—54.

COUNTY.—Custer.

LOCAL WELL NUMBER.—2S7E34ABBA.

SITE ID (STATION NUMBER).—435018103155801.

OTHER IDENTIFIER.—CU-83A and Hermosa West Mnls.

LOCATION.—Lat 43°50′20.3″, long 103°16′00.3″, in NE¹/4NW¹/4NW¹/4NE¹/4 sec. 34, T. 2 S., R. 7 E., Hydrologic Unit 10120109, 4 mi west of Hermosa. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 510 ft deep with 464 ft of 5-in. diameter steel casing; open hole from 464 to 510 ft.

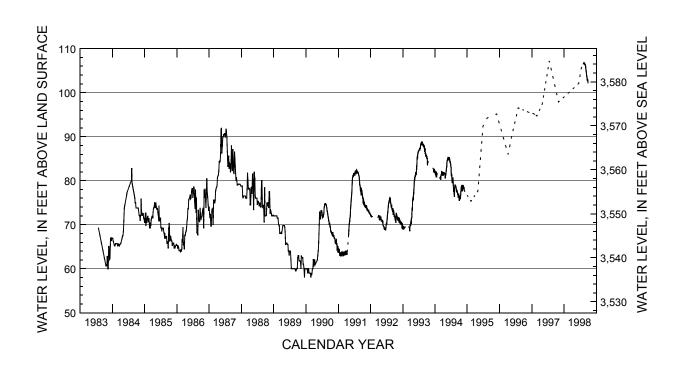
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval (24-hour interval prior to Nov. 21, 1992). Prior to June 20, 1990, circular-chart pressure recorder.

DATUM.—Elevation of land-surface datum is 3,477.5 ft above sea level. Measuring point: Base of gage, 2.9 ft above land-surface datum (before June 20, 1990, 2.15 ft above land-surface datum).

REMARKS.—Current records poor. Records prior to June 1990 were fair. Data stored as noon readings.

PERIOD OF RECORD.—October 1983 to September 1998.

EXTREMES.—Highest daily water level, 107.2 ft (estimated) above land-surface datum, July 18, 1997; lowest daily water level, 58.0 ft above land-surface datum, Dec. 15, 1989, Feb. 25, 1990.



WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		WATER LEVE	SL, IN FEE	T ABOVE	DAILY OF		N AT 1200		BER 1994 :	TO SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	+75.82	+79.03										
2	+76.22	+78.27						e+77.65				
3 4	+75.48 +75.48	+78.18 +77.99										
5	+76.29	+77.58										
6	+76.19	+77.79										
7	+75.96	+78.18										
8	+76.01	+78.09										
9	+76.19	+78.52										
10	+76.42	+78.71										
11	+76.56	+78.92										
12	+76.10	+79.05										
13 14	+75.76 +76.47	+78.68 +78.55			e+75.34							
15	+76.01	+78.73									e+94.26	
16	+76.05	+78.98										
17	+76.03	+78.73										
18	+76.70	+78.25										
19	+76.95	+78.64										
20	+77.37	+78.78										
21	+77.74	+78.04										
22	+77.60	+78.18										
23 24	+77.99 +77.97	+78.50										
25	+78.13	+78.20 +78.34										
26 27	+78.57 +78.55	+78.57 +78.04										
28	+78.48	+77.95							e+92.40			
29	+78.50	+77.72										
30	+78.55											
31	+78.66											
LOW	+75.48	+77.58			+75.34			+77.65	+92.40		+94.26	
		WATER LEVE	EL, IN FEE	T ABOVE			1, WATER 1 N AT 1200		3ER 1995 1	ro septemb	ER 1996	
DAY	OCT	WATER LEVE	EL, IN FEE DEC		DAILY OF	SERVATIO	N AT 1200	HOURS				SEP
DAY	OCT	NOV	DEC	JAN	DAILY OF	BSERVATION MAR	N AT 1200 APR	HOURS MAY	JUN	JUL	AUG	SEP
1		NOV	DEC	JAN	DAILY OF FEB	SSERVATION MAR	APR	HOURS MAY	JUN	JUL	AUG	
		NOV	DEC	JAN	DAILY OF	BSERVATION MAR	N AT 1200 APR	HOURS MAY	JUN	JUL	AUG	
1 2 3 4	 	NOV 	DEC	JAN 	DAILY OF FEB	MAR	APR	MAY	JUN 	JUL 	AUG 	
1 2 3		NOV 	DEC 	JAN 	DAILY OF	MAR	APR	MAY	JUN 	JUL 	AUG 	
1 2 3 4	 	NOV 	DEC	JAN 	DAILY OF FEB	MAR	APR	MAY	JUN 	JUL 	AUG 	
1 2 3 4 5	 	NOV	DEC	JAN	DAILY OF	MAR	APR	HOURS MAY	JUN	JUL 	AUG	
1 2 3 4 5 6 7 8	 	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	HOURS MAY	JUN	JUL	AUG	
1 2 3 4 5	 	NOV	DEC	JAN	DAILY OF	MAR	APR	HOURS MAY	JUN	JUL 	AUG	
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	 	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	======================================	NOV	DEC	JAN	DAILY OF	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		NOV	DEC	JAN	DAILY OE FEB	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAILY OF FEB	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		NOV	DEC	JAN	DAILY OE FEB	MAR	APR e+85.95	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	DAILY OE FEB	MAR	APR e+85.95	HOURS MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAILY OE FEB	MAR	APR e+85.95	HOURS MAY	JUN	JUL	AUG	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		NOV	DEC	JAN	DAILY OE FEB	MAR	APR e+85.95	HOURS MAY e+89.87	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 122 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27		NOV	DEC	JAN	DAILY OF FEB	MAR	APR	HOURS MAY	JUN	JUL	AUG	
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		NOV	DEC	JAN	DAILY OE FEB	MAR	APR	HOURS MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 122 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27		NOV	DEC	JAN	DAILY OF FEB	MAR	APR	HOURS MAY	JUN	JUL	AUG	
1 2 3 4 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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAILY OE FEB	MAR	APR	HOURS MAY e+89.87	JUN	JUL	AUG	
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 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAILY OE FEB	MAR	APR	HOURS MAY	JUN	JUL	AUG	

e Estimated

SITE NUMBER 54—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
_												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
13												
16												
17												
18										e+107.2		
19												
20		e+95.6										
21												
22				e+95.2								
23												
24												
25												
26												
26 27					e+94.7							
28					e+94.7							
28 29												
29 30							e+97.5					
31												
31												
LOW		+95.60		+95.20	+94.70		+97.50			+107.20		

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY OBSERVATION AT 1200 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												+105.93
2												+106.12
3												+105.98
4												+105.75
5												+105.45
6												+105.15
7												+104.92
8												+104.92
9												+104.98
10												+104.82
11											e+106.7	+104.45
12											+106.69	+104.22
13											+106.74	+103.92
14											+106.74	+103.85
15										e+105.6	+106.78	+103.62
16									e+102.1		+106.92	+103.62
17											+106.78	+103.67
18											+106.62	+103.60
19											+106.62	+103.30
20											+106.44	+102.86
21											+106.44	+102.86
22											+106.67	+102.79
23											+106.65	+102.77
24											+106.48	+102.98
25											+106.42	+103.02
26											+106.46	+102.89
27											+106.46	+102.59
28											+106.37	+102.72
29											+106.37	+102.56
30											+106.30	+102.12
31	e+97.9										+106.07	
LOW	+97.90								+102.10	+105.60	+106.07	+102.12

e Estimated

SITE NUMBER FROM LOCATION MAP.—55.

COUNTY.—Custer.

LOCAL WELL NUMBER.—2S7E36CBCB.

SITE ID (STATION NUMBER).—434946103140501.

OTHER IDENTIFIER.—CU-83B and Hermosa West Lkot.

LOCATION.—Lat 43°49′48.7″, long 103°14′17.3″, in NW¹/4SW¹/4NW¹/4SW¹/4 sec. 36, T. 2 S., R. 7 E., Hydrologic Unit 10120109, 2 mi west of Hermosa. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Lakota (Inyan Kara).

WELL CHARACTERISTICS.—Drilled observation well, 80 ft deep with 42 ft of 5-in. steel casing; open hole from 42 to 80 ft.

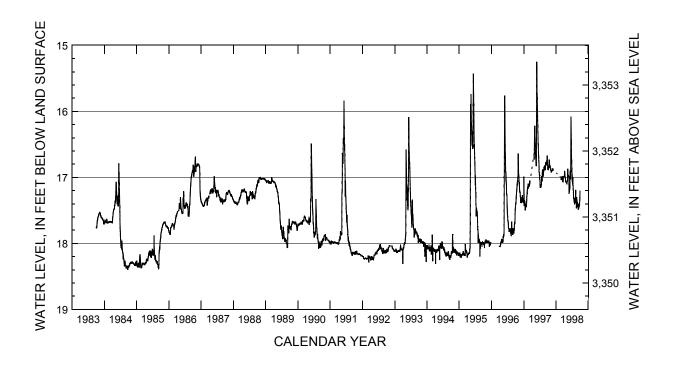
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,368.6 ft above sea level. Measuring point: Top of steel casing, 1.25 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—October 1983 to September 1998.

EXTREMES.—Highest daily water level, 15.25 ft below land-surface datum, May 28, 1997; lowest daily water level, 18.40 ft below land-surface datum, Sept. 21, 1984.



SITE NUMBER 55—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1994 T	O SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	18.19 18.18 18.18 18.15 18.14	18.13 18.14 18.09 18.10 18.10	18.18 18.11 18.15 18.13 18.13	18.18 18.18 18.17 18.16 18.14	18.17 18.16 18.17 18.18 18.18	18.16 18.19 18.16 18.16 18.16	18.20 18.21 18.21 18.20 18.18	18.09 18.07 18.08 18.08 18.07	16.47 16.51 16.57 16.53 16.45	16.98 16.98 17.12 17.02 16.98	17.79 17.79 17.82 17.86 17.99	17.98 17.99 17.99 18.00 17.99
6 7 8 9 10	18.12 18.13 18.16 18.15 18.15	18.14 18.09 18.12 18.12	18.13 18.14 18.13 18.13 18.14	18.17 18.16 18.14 18.19 18.16	18.17 18.18 18.17 18.17 18.15	18.17 18.15 18.14 18.16 18.19	18.17 18.17 18.18 18.17 18.16	18.04 17.83 17.43 16.21 15.89	16.22 16.26 16.25 16.14 15.79	17.08 17.17 17.24 17.29 17.42	17.87 17.92 17.92 17.92	17.99 17.99 17.98 17.99 17.99
11 12 13 14 15	18.14 18.16 18.14 18.14	18.10 18.09 18.09 18.10 18.12	18.14 18.16 18.14 18.14 18.14	18.17 18.21 18.18 18.17 18.16	18.18 18.16 18.16 18.15 18.12	18.01 18.03 18.04 18.07 18.08	18.16 18.16 18.16 18.16 18.17	15.96 16.08 16.09 15.82 15.74	15.43 15.49 15.59 15.76 15.90	17.39 17.51 17.59 17.49 17.52	17.95 17.95 17.94 17.99	18.02 18.00 18.00 18.00 18.00
16 17 18 19 20	18.09 17.96 17.87 17.87 17.95	18.10 18.13 18.12 18.13 18.09	18.16 18.16 18.16 18.19 18.16	18.17 18.17 18.17 18.18 18.18	18.15 18.14 18.17 18.16 18.16	18.13 18.10 18.13 18.13	18.17 18.17 18.15 18.14 18.15	15.86 15.97 16.08 16.18 16.18	16.05 16.16 16.32 16.40 16.52	17.49 17.46 17.48 17.51 17.53	17.96 17.94 17.97 18.00 17.97	18.05 18.01 18.01 17.99 17.99
21 22 23 24 25	17.98 18.06 18.04 18.07 18.09	18.10 18.13 18.13 18.15 18.12	18.16 18.17 18.18 18.18	18.17 18.17 18.22 18.18 18.19	18.16 18.18 18.17 18.17 18.16	18.10 18.11 18.13 18.13 18.15	18.14 18.15 18.15 18.15 18.15	16.22 16.29 16.34 16.44 16.49	16.55 16.50 16.53 16.58 16.63	17.53 17.54 17.51 17.54 17.56	17.98 18.00 17.98 18.19 18.20	17.99 17.97 17.99 18.00 17.99
26 27 28 29 30 31	18.07 18.12 18.12 18.06 18.09	18.16 18.14 18.14 18.13 18.13	18.16 18.18 18.14 18.17 18.16 18.16	18.17 18.19 18.21 18.18 18.19 18.17	18.17 18.17 18.16 	18.13 18.15 18.13 18.14 18.13 18.13	18.16 18.14 18.14 18.14 18.12	16.52 16.43 16.40 16.42 16.30 16.37	16.70 16.78 16.82 16.87 16.90	17.58 17.59 17.67 17.76 17.74 17.80	17.98 17.98 17.99 17.99 18.08 17.99	17.99 17.99 17.99 17.99 17.99
LOW	18.19	18.16	18.19	18.22	18.18	18.19	18.21	18.09	16.90	17.80	18.20	18.05
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1995 T	CO SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN				EAR OCTOB	ER 1995 T JUN	O SEPTEMB	ER 1996 AUG	SEP
DAY 1 2 3 4 5	OCT 18.02 18.00 18.00 17.99				DA	AILY LOWES	T VALUES					SEP 17.78 17.81 17.77 17.79 17.80
1 2 3 4	18.02 18.00 18.00	NOV 17.96 17.99 17.97 17.99	DEC 17.96 17.99 17.99 17.96	JAN 	D# FEB 	MAR	APR	MAY 17.99 17.95 17.99 17.99	JUN 15.94 16.07 16.19 16.30	JUL 17.56 17.56 17.58 17.59	AUG 17.78 17.78 17.81 17.85	17.78 17.81 17.77 17.79
1 2 3 4 5 6 7 8 9	18.02 18.00 18.00 17.99 17.99 18.00 18.01	NOV 17.96 17.99 17.97 17.99 17.96 17.98 17.97 17.96	DEC 17.96 17.99 17.99 17.96 17.99 17.99 17.99 17.99 18.00 18.05	JAN	D2 FEB	MAR	APR 18.05 18.05	MAY 17.99 17.95 17.99 17.99 17.99 17.99 17.98 17.99	JUN 15.94 16.07 16.19 16.30 16.44 16.52 16.63 16.69 16.76	JUL 17.56 17.58 17.59 17.66 17.65 17.65	AUG 17.78 17.78 17.81 17.85 17.82 17.82 17.83 17.84 17.83	17.78 17.81 17.77 17.79 17.80 17.80 17.80 17.81
1 2 3 4 5 6 7 8 9 10 11 12 13 14	18.02 18.00 18.00 17.99 17.99 18.00 18.01 18.00 18.00 18.00 18.03	NOV 17.96 17.99 17.97 17.99 17.96 17.98 17.96 17.96 17.99 17.98 17.98 17.98	DEC 17.96 17.99 17.99 17.99 17.99 17.99 17.99 18.00 18.05 17.99 18.00 17.99 17.99 17.99	JAN	D2 FEB	MAR	APR 18.05 18.05 18.04 18.03 18.03 18.03	MAY 17.99 17.95 17.99 17.99 17.99 17.99 17.98 17.97 17.97 17.96 17.92 17.97 17.97	JUN 15.94 16.07 16.19 16.30 16.44 16.52 16.63 16.69 16.76 16.86	JUL 17.56 17.58 17.59 17.66 17.65 17.65 17.67 17.67 17.72 17.77	AUG 17.78 17.78 17.81 17.85 17.82 17.82 17.82 17.83 17.83 17.83 17.87 17.89 17.89	17.78 17.81 17.77 17.79 17.80 17.79 17.80 17.81 17.81 17.82 17.83 17.83 17.83 17.78
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	18.02 18.00 18.00 17.99 17.99 18.00 18.00 18.01 18.00 18.03 18.03 18.07 18.00 17.99 18.00 17.99	NOV 17.96 17.99 17.97 17.99 17.96 17.96 17.96 17.99 17.98 17.99 17.99 17.99 17.99	DEC 17.96 17.99 17.99 17.99 17.99 17.99 18.00 18.05 17.99 18.00 17.99 17.99 17.99 17.99 18.00 18.03 18.03 18.03 18.03	JAN	D2 FEB	MAR	APR 18.05 18.05 18.04 18.03 18.04 18.03 18.04 18.02 18.00 17.99	MAY 17.99 17.99 17.99 17.99 17.99 17.98 17.97 17.96 17.97 17.96 17.97 17.96 17.97 17.98 17.97 17.98 17.97	JUN 15.94 16.07 16.19 16.30 16.44 16.52 16.63 16.69 16.76 16.86 16.92 17.06 16.99 17.06 17.07	JUL 17.56 17.56 17.58 17.59 17.66 17.65 17.65 17.67 17.69 17.72 17.77 17.76 17.78 17.78 17.78 17.82	AUG 17.78 17.78 17.81 17.85 17.82 17.83 17.84 17.83 17.83 17.87 17.89 17.89 17.85 17.81 17.67 17.74	17.78 17.81 17.77 17.79 17.80 17.81 17.81 17.82 17.83 17.83 17.83 17.78 17.77 17.72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	18.02 18.00 17.99 17.99 18.00 18.00 18.01 18.00 18.03 18.03 18.03 18.07 18.00 17.99 18.00 17.99 17.99 17.99	NOV 17.96 17.99 17.97 17.99 17.96 17.96 17.96 17.99 17.98 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.98 17.97	DEC 17.96 17.99 17.99 17.99 17.99 17.99 18.00 18.05 17.99 18.00 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 18.00 18.03	JAN	D2 FEB	MAR	APR 18.05 18.05 18.05 18.04 18.03 18.04 18.02 18.00 17.99 17.99 17.99 17.99 17.99 17.99	MAY 17.99 17.99 17.99 17.99 17.99 17.98 17.97 17.96 17.97 17.96 17.97 17.86 17.87 17.88 17.88 17.88 17.88	JUN 15.94 16.07 16.19 16.30 16.44 16.52 16.63 16.69 16.76 16.86 16.92 17.06 16.94 16.99 17.00 17.06 17.07 17.11 17.17	JUL 17.56 17.58 17.59 17.65 17.65 17.65 17.67 17.69 17.72 17.73 17.77 17.78 17.78 17.78 17.78 17.78 17.82 17.82 17.82 17.82 17.82 17.82 17.82	AUG 17.78 17.81 17.85 17.82 17.83 17.83 17.83 17.83 17.87 17.89 17.84 17.85 17.87 17.78 17.67 17.77 17.78	17.78 17.81 17.77 17.79 17.80 17.81 17.81 17.82 17.83 17.83 17.78 17.72 17.69 17.69 17.69

SITE NUMBER 55—Continued

		WATER LEV	EL, IN FEE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	17.41 17.39 17.38 17.41	16.70 16.81 16.86 16.89	17.36 17.33 17.37 17.35 17.34	17.35 17.00 16.99 17.15 17.26	17.45 17.42 17.37 17.34 17.29	17.13 17.13 17.10 17.14 17.11	 	16.64 16.57 16.40 16.31 16.28	15.72 15.75 15.77 15.80 15.92	17.02 17.03 17.04 17.07 17.12	16.89 16.88 16.90 16.94 16.94	16.89 16.87 16.85 16.86 16.80
6 7 8 9 10	17.37 17.32 17.33 17.30 17.28	16.97 16.98 16.99 17.05 17.10	17.35 17.39 17.37 17.34 17.33	17.27 17.43 17.37 17.35 17.35	17.27 17.25 17.23 17.26 17.23	17.10 17.11 17.08 17.11 17.05	 	16.22 16.27 16.32 16.35 16.40	15.99 16.08 16.14 16.22 16.32	17.11 17.14 17.16 17.14 17.13	16.93 16.94 16.92 16.99 16.96	16.80 16.77 16.82 16.79 16.80
11 12 13 14 15	17.25 17.23 17.22 17.20 17.16	17.07 17.11 17.14 17.14 17.19	17.30 17.31 17.31 17.35 17.32	17.38 17.37 17.37 17.38 17.38	17.20 17.18 17.17 17.17 17.17	17.08 17.09 17.07 	 	16.44 16.49 16.52 16.62 16.65	16.33 16.41 16.42 16.50 16.49	17.13 17.12 17.12 17.15 17.12	16.92 16.89 16.94 16.88 16.88	16.82 16.78 16.82 16.78 16.79
16 17 18 19 20	17.16 17.12 17.14 17.10 17.11	17.18 17.22 17.23 17.22 17.22	17.33 17.27 17.31 17.32 17.33	17.40 17.43 17.50 17.44 17.49	17.14 17.17 17.12 17.10 17.10	 	 	16.67 16.70 16.72 16.74 16.78	16.53 16.63 16.66 16.68 16.70	17.14 17.15 17.11 17.11 17.06	16.91 16.87 16.84 16.86 16.88	16.80 16.79 16.76 16.75 16.74
21 22 23 24 25	17.09 17.06 17.04 17.05 17.07	17.22 17.23 17.29 17.30 17.30	17.37 17.38 17.37 17.36 17.32	17.44 17.46 17.41 17.40 17.42	17.13 17.14 17.16 17.16 17.13	 	 	16.80 16.83 16.82 16.82 16.80	16.76 16.78 16.82 16.84 16.89	17.06 16.98 16.99 17.00	16.85 16.85 16.88 16.83 16.83	16.74 16.75 16.70 16.67 16.71
26 27 28 29 30 31	17.00 16.99 16.98 16.90 16.71 16.64	17.32 17.30 17.35 17.39 17.35	17.34 17.34 17.35 17.37 17.35 17.39	17.42 17.41 17.40 17.41 17.41 17.40	17.14 17.12 17.13	 	16.64 16.73 16.69	16.19 15.39 15.25 15.35 15.45 15.59	16.92 16.92 16.97 16.97 16.97	17.02 17.04 17.02 17.06 16.94 16.91	16.83 16.87 16.85 16.82 16.88 16.84	16.75 16.78 16.80 16.86 16.85
LOW	17.41	17.39	17.39	17.50	17.45	17.14	16.73	16.83	16.97	17.16	16.99	16.89
		WATER LEV	EL, IN FEE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOBI	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FEE	ET BELOW JAN				EAR OCTOBI	ER 1997 T	O SEPTEMB JUL	ER 1998 AUG	SEP
DAY 1 2 3 4 5					DA	AILY LOWES	T VALUES					SEP 17.45 17.38 17.45 17.42 17.43
1 2 3 4	OCT 16.88 16.88 16.88 16.87	NOV 16.89 16.89 16.87 16.87	DEC	JAN 	D# FEB 	MAR 17.04 17.04 17.03 17.01	APR 16.99 16.99 16.99 16.99	MAY 17.07 17.08 17.08 17.10	JUN 17.23 17.20 17.22 17.21	JUL 16.93 16.96 16.96 16.99	AUG 17.37 17.34 17.37 17.32	17.45 17.38 17.45 17.42
1 2 3 4 5 6 7 8	OCT 16.88 16.88 16.87 16.82 16.83 16.89 16.84	NOV 16.89 16.87 16.87 16.89 16.89 16.89	DEC	JAN	DF	MAR 17.04 17.04 17.03 17.01 17.01 17.00 17.00 17.00	APR 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99	MAY 17.07 17.08 17.08 17.10 17.10 17.10 17.10 17.08 17.06 17.06	JUN 17.23 17.20 17.22 17.21 17.17 17.15 17.17 17.15 17.17	JUL 16.93 16.96 16.99 17.02 17.06 17.06 17.10 17.10	AUG 17.37 17.34 17.32 17.34 17.35 17.34 17.35 17.34 17.39 17.34	17.45 17.38 17.45 17.42 17.43 17.40 17.44 17.40 17.42
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 16.88 16.88 16.87 16.82 16.83 16.85 16.83 16.83 16.83 16.83 16.79	NOV 16.89 16.87 16.87 16.89 16.89 16.89 16.92 16.92 16.92 16.92 16.90 16.90	DEC	JAN	DF FEB	MAR 17.04 17.04 17.03 17.01 17.01 17.01 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	APR 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.95 16.91 16.91 16.91 16.91	MAY 17.07 17.08 17.08 17.10 17.10 17.10 17.06 17.06 17.05 17.05 17.05 17.05 16.96 16.87	JUN 17.23 17.20 17.22 17.21 17.17 17.15 17.17 17.13 17.08 16.93 16.90 16.95 16.97 16.98	JUL 16.93 16.96 16.96 17.02 17.06 17.10 17.10 17.15 17.07 17.11 17.12 17.13 17.12	AUG 17.37 17.34 17.37 17.32 17.34 17.35 17.34 17.35 17.34 17.39 17.34 17.39 17.31 17.19 17.21	17.45 17.38 17.45 17.42 17.43 17.40 17.44 17.40 17.42 17.40 17.44 17.40 17.42
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 16.88 16.88 16.87 16.82 16.83 16.85 16.85 16.85 16.87 16.77	NOV 16.89 16.87 16.87 16.89 16.89 16.92 16.92 16.92 16.92 16.90 16.90 16.90 16.90 16.90	DEC	JAN	DF FEB	MAR 17.04 17.04 17.03 17.01 17.01 17.00	APR 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.91 16.91 16.91 16.91 16.91 17.01 17.01 17.01 17.01	MAY 17.07 17.08 17.08 17.10 17.10 17.10 17.06 17.06 17.05 17.05 17.05 17.05 17.09 16.96 16.87 16.89 16.91 16.95 16.98	JUN 17.23 17.20 17.22 17.21 17.17 17.15 17.17 17.13 17.08 16.93 16.90 16.95 17.03 16.99 17.03 16.97 16.99 17.03 16.97 16.99	JUL 16.93 16.96 16.96 16.99 17.02 17.06 17.10 17.10 17.15 17.05 17.02 17.12 17.13 17.12 17.18 17.20 17.22 17.22 17.22	AUG 17.37 17.34 17.37 17.32 17.34 17.39 17.34 17.39 17.34 17.39 17.31 17.19 17.23 17.35 17.36 17.37	17.45 17.38 17.42 17.43 17.40 17.44 17.40 17.42 17.40 17.42 17.40 17.42 17.40 17.42 17.40 17.42 17.40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 16.88 16.88 16.87 16.82 16.83 16.85 16.85 16.87 16.77 16.75 16.77 16.75 16.74 16.74 16.78	NOV 16.89 16.87 16.87 16.89 16.89 16.92 16.92 16.92 16.92 16.90 16.90 16.90 16.90 16.90 16.90 16.88 16.88	DEC	JAN	DF FEB	MAR 17.04 17.04 17.03 17.01 17.01 17.00 17.06 17.06 17.06 17.06 17.06 17.06 17.06 17.06 17.07 17.07 17.07	APR 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.91 16.91 16.91 16.91 17.01 17.01 17.01 17.01 17.03 17.06 17.07 17.07 17.07	MAY 17.07 17.08 17.08 17.10 17.10 17.10 17.06 17.06 17.05 17.05 17.05 17.05 17.09 16.96 16.87 16.89 16.91 16.99 16.99 16.99 16.99 16.99 16.99	JUN 17.23 17.20 17.22 17.21 17.17 17.15 17.17 17.13 17.08 16.93 16.99 17.03 16.99 17.03 16.99 17.03 16.99 17.03 16.99 17.03 16.97 16.98 16.99	JUL 16.93 16.96 16.96 16.99 17.02 17.06 17.10 17.15 17.12 17.13 17.12 17.18 17.20 17.22 17.27 17.30 17.32 17.33 17.32 17.33	AUG 17.37 17.34 17.37 17.32 17.34 17.39 17.34 17.39 17.33 17.21 17.19 17.23 17.35 17.36 17.37 17.36 17.37 17.36 17.37 17.36 17.37 17.36 17.37 17.38	17.45 17.38 17.42 17.43 17.40 17.42 17.40 17.42 17.40 17.42 17.40 17.42 17.40 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.42 17.44 17.44 17.42 17.44

SITE NUMBER FROM LOCATION MAP.—56.

COUNTY.—Custer.

LOCAL WELL NUMBER.—3S1E18DDDB.

SITE ID (STATION NUMBER).—434700104021401.

OTHER IDENTIFIER.—CU-93C and Boles Canyon Mdsn.

LOCATION.—Lat 43°47′01.7″, long 104°02′15.5″, in NW¹/4SE¹/4SE¹/4SE¹/4SE¹/4 sec. 18, T. 3 S., R. 1 E., Hydrologic Unit 10120107, about 10 mi west of Jewel Cave. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,054 ft deep with 900 ft of 5-in. steel casing; open hole from 900 to 1,054 ft.

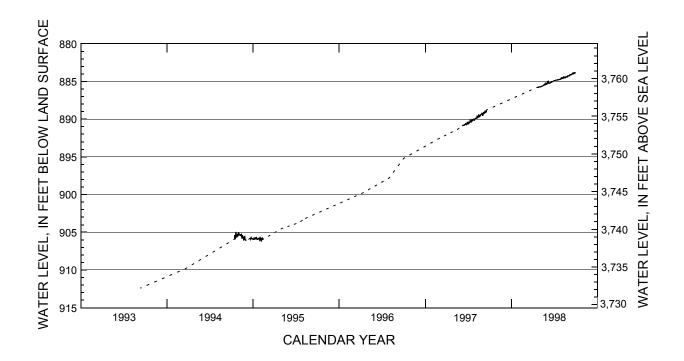
INSTRUMENTATION.—Intermittent taped measurements and an electronic data logger.

DATUM.—Elevation of land-surface datum is 4,644.6 ft above sea level. Measuring point: Top of steel casing, 2.60 ft above land-surface datum.

REMARKS.—Available record good.

PERIOD OF RECORD.—September 1993 to September 1998.

EXTREMES.—Highest daily water level, 883.82 ft below land-surface datum, Sept. 30, 1998; lowest daily water level, 912.4 ft below land-surface datum, Sept. 9, 1993.



WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURFACE DAILY		, WATER Y T VALUES	EAR OCTOE	BER 1994 '	TO SEPTEM	3ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		905.07		905.92	905.80							
2		905.24		905.95	905.98							
3 4		905.32 905.29		905.97 905.97	906.09 905.95			e904.5				
5		905.33		905.68	905.86							
6 7		905.39		905.83	905.81							
8		905.27 905.42		905.83 905.90	905.98 905.89							
9		905.43		905.87	905.76							
10		905.32		905.78	905.81							
11		905.28		905.69	905.94							
12		905.27		905.86								
13		905.58		905.89								
14	905.9	905.79		905.86								
15	905.39	905.78		905.71							e903.1	
16	905.87	905.43		905.74								
17	905.87	905.38	905.87	905.89								
18	905.57	905.75	905.83	905.95								
19 20	905.21 904.96	905.75 905.58	905.79 905.82	905.95 905.95								
20		505.50	303.02	,03.,5								
21	905.21	905.91	905.83	905.92								
22 23	905.46 905.53	906.02 905.95	905.93 905.83	905.87 905.84								
24	905.65	905.73	905.63	905.87								
25	905.60	905.73	905.80	905.85						e903.5		
0.6	005 40	005 40	005 01	005 53								
26 27	905.42 905.19	905.49 905.68	905.81 905.84	905.73 905.86								
28	905.31	905.91	905.84	906.02					e903.9			
29	905.43	906.07	905.85	906.05								
30 31	905.38 905.34		905.89 905.95	905.89 905.72								
31	905.34		905.95	903.72								
LOW	905.90	906.07	905.95	906.05	906.09			904.50	903.90	903.50	903.10	
DAY	OCT					LOWES	T VALUES					SEP
DAY 1	OCT	NOV	DEC	JAN	DAILY FEB	LOWES MAR	T VALUES	MAY	JUN	JUL	AUG	SEP
DAY 1 2	OCT 				DAILY	LOWES	T VALUES					SEP
1 2 3		NOV 	DEC 	JAN 	DAILY FEB 	MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4	 	NOV 	DEC	JAN 	DAILY FEB	MAR	T VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3		NOV 	DEC 	JAN 	DAILY FEB 	MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5	 	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5	 	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5	 	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL 	AUG	
1 2 3 4 5		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ====	NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ====	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	==== ==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	 	NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	DAILY FEB	MAR	APR e899.8	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
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		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
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		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
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 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	DAILY FEB	MAR	APR	MAY	JUN	JUL	AUG	

e Estimated

SITE NUMBER 56—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

	,	WAIEK DEVE	,			LY LOWES:			DIC 1990 1	O SEFTEME	EK 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e895.2									890.59	889.98	889.53
2										890.63	889.92	889.53
3 4										890.63	889.96	889.42 889.19
5										890.63 890.47	889.96 889.92	889.19
3										0,501,	007.72	003.21
6										890.43	889.86	889.12
7 8										890.39 890.43	889.85 889.53	889.16 889.23
9										890.34	889.82	889.23
10									890.81	890.18	889.82	889.06
11									890.81	890.27	889.73	888.90
12									890.82	890.30	889.76	888.99
13									890.85	890.35	889.71	889.08
14 15									890.83 890.75	890.39 890.28	889.47 889.50	888.99 888.95
13									050.75	050.20	007.50	000.55
16									890.77	890.17	889.74	888.97
17 18									890.77 890.74	890.12 890.18	889.74 889.57	889.00 888.78
19									890.74	890.18	889.57	
20								e891.3	890.63	890.18	889.65	
0.1									000 67	000 00	000 54	
21 22									890.67 890.61	890.20 890.12	889.54 889.54	
23									890.63	890.04	889.46	
24									890.74	890.01	889.39	
25									890.75	890.01	889.42	
26					e892.6				890.71	890.00	889.39	
27									890.49	890.12	889.33	
28 29									890.49 890.50	890.14 890.07	889.27 889.33	
30									890.42	889.99	889.32	
31										889.94	889.26	
LOW	895.20				892.60			891.30	000 05	890.63	000 00	000 53
LOW	095.20				092.00			091.30	890.85	090.03	889.98	889.53
	1	WATER LEVEI	L, IN FEE	T BELOW	LAND-SURFA	CE DATUM,	WATER Y	EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
					DAI	LY LOWES	r values				211 1990	
DAY	OCT	NOV	DEC	JAN	DAI FEB		r values Apr	MAY	JUN	JUL	AUG	SEP
	OCT	NOV	DEC	JAN		LY LOWES		MAY	JUN	JUL	AUG	
DAY 1 2					FEB	LY LOWEST	APR					SEP 884.30 884.30
1 2 3	 				FEB 	MAR	APR 	MAY 885.74 885.73 885.72	JUN 885.35 885.35 885.10	JUL 884.90 884.90 884.91	AUG 884.52 884.51 884.49	884.30 884.30 884.24
1 2 3 4					FEB 	LY LOWESS	APR	MAY 885.74 885.73 885.72	JUN 885.35 885.35 885.10 885.11	JUL 884.90 884.90 884.91 884.89	AUG 884.52 884.51 884.49 884.62	884.30 884.30 884.24 884.22
1 2 3	 	 			FEB 	MAR	APR 	MAY 885.74 885.73 885.72	JUN 885.35 885.35 885.10	JUL 884.90 884.90 884.91	AUG 884.52 884.51 884.49	884.30 884.30 884.24
1 2 3 4 5					FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71	JUN 885.35 885.35 885.10 885.11 885.08	JUL 884.90 884.90 884.91 884.89 884.89	AUG 884.52 884.51 884.49 884.62 884.61	884.30 884.30 884.24 884.22 884.18
1 2 3 4 5	====	=== === === ===	 		FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71	JUN 885.35 885.35 885.10 885.11 885.08 885.02	JUL 884.90 884.90 884.91 884.89 884.89	AUG 884.52 884.51 884.62 884.61 884.56 884.61	884.30 884.30 884.24 884.22 884.18
1 2 3 4 5					FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71	JUN 885.35 885.35 885.10 885.11 885.08	JUL 884.90 884.90 884.91 884.89 884.89	AUG 884.52 884.51 884.49 884.62 884.61	884.30 884.30 884.24 884.22 884.18
1 2 3 4 5	 	===			FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.70 885.69	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.22 885.27	JUL 884.90 884.91 884.89 884.89 884.89	AUG 884.52 884.51 884.49 884.62 884.61 884.56 884.61 884.63	884.30 884.30 884.24 884.22 884.18 884.11 884.11
1 2 3 4 5 6 7 8 9	====	====			FEB	MAR MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.69 885.69 885.65	JUN 885.35 885.35 885.10 885.11 885.02 885.22 885.27 885.26 885.26	JUL 884.90 884.91 884.89 884.89 884.89 884.88 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.56 884.61 884.63 884.61 884.40	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.17
1 2 3 4 5 6 7 8 9	 	 			FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.70 885.69	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.22 885.22 885.27	JUL 884.90 884.91 884.89 884.89 884.89 884.87 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.63 884.63	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.10 884.17
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====		 		FEB	LY LOWES' MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.69 885.69 885.65 885.61	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.27 885.26 885.26 885.26	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.63 884.61 884.39 884.39	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14	==== ==== ==== ==== ==== ====				FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.71 885.69 885.65 885.61 885.62 885.62 885.61 885.62	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.22 885.26 885.26 885.26 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.63 884.40 884.39 884.39 884.39	884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.17 884.09 884.06 884.04
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====		 		FEB	LY LOWES' MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.69 885.69 885.65 885.61	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.27 885.26 885.26 885.26	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.63 884.61 884.39 884.39	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					FEB	MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.71 885.69 885.65 885.61 885.62 885.62 885.62 885.67 885.62	JUN 885.35 885.35 885.10 885.11 885.02 885.22 885.22 885.26 885.26 885.26 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.38 884.54	884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09 884.04 884.04 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.60 885.62 885.61 885.62 885.61 885.62 885.61	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.22 885.26 885.26 885.26 885.18 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.39 884.39 884.39	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09 884.06 884.04 884.04 884.01 884.01
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					FEB	LY LOWES' MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.51 885.51 885.51	JUN 885.35 885.35 885.10 885.11 885.08 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.87 884.77	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.38 884.53 884.53	884.30 884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.17 884.09 884.04 884.03 884.04 884.03 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					FEB	MAR	APR	MAY 885.74 885.73 885.72 885.72 885.71 885.71 885.60 885.62 885.61 885.62 885.61 885.62 885.61	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.22 885.26 885.26 885.26 885.18 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.84 884.84	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.39 884.39 884.39	884.30 884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09 884.06 884.04 884.04 884.01 884.01
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.69 885.61 885.61 885.61 885.62 885.51 885.51 885.51 885.49 885.46	JUN 885.35 885.35 885.10 885.11 885.08 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.87 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.75 884.77 884.78	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.38 884.53 884.53	884.30 884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.17 884.09 884.04 884.03 884.04 884.03 884.04
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 15 16 17 18 19 20 21					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.57 885.57 885.51 885.49 885.44	JUN 885.35 885.35 885.10 885.11 885.02 885.22 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18 885.11 885.16	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.77 884.77 884.78	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39	884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.09 884.06 884.06 884.04 884.03 884.04 884.04 884.04 884.04 884.02 884.05 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.69 885.61 885.61 885.61 885.62 885.51 885.51 885.51 885.49 885.46	JUN 885.35 885.35 885.10 885.11 885.08 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18 885.18	JUL 884.90 884.91 884.89 884.89 884.87 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.75 884.77 884.78	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.38 884.53 884.53	884.30 884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.17 884.09 884.04 884.03 884.04 884.03 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.61 885.62 885.61 885.40 885.41 885.46 885.48	JUN 885.35 885.35 885.10 885.11 885.02 885.22 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.11 885.16 885.18 885.11 885.17 885.10 885.18	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.84 884.87 884.75 884.77 884.78 884.78	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.54 884.51 884.53 884.53 884.53 884.53	884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.09 884.06 884.06 884.04 884.03 884.04 884.04 884.03 884.04 884.04 884.03 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23					FEB	LY LOWES' MAR	APR 885.75	MAY 885.74 885.73 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.51 885.57 885.54 885.44 885.44	JUN 885.35 885.35 885.10 885.11 885.08 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18 885.11 885.16	JUL 884.90 884.91 884.89 884.89 884.88 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.77 884.78 884.78	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39 884.39	884.30 884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.09 884.04 884.04 884.03 884.04 884.04 884.04 884.04 884.04 884.04 884.04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24					FEB	LY LOWES' MAR	APR 885.75 885.76 885.78	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.51 885.57 885.546 885.44 885.46 885.47 885.46 885.29	JUN 885.35 885.35 885.10 885.11 885.08 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.18 885.11 885.16 885.13 885.10 885.13 885.10 885.02	JUL 884.90 884.91 884.89 884.89 884.88 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.77 884.78 884.78 884.78	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.54 884.51 884.53 884.53 884.53 884.53	884.30 884.30 884.24 884.22 884.18 884.11 884.10 884.17 884.09 884.04 884.04 884.03 884.04 884.04 884.04 884.03 884.04 884.04 884.03 884.04 884.04 884.04 884.04 884.04 884.04
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					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.71 885.69 885.65 885.61 885.62 885.62 885.62 885.62 885.62 885.64 885.40 885.49 885.49 885.49 885.49 885.40	JUN 885.35 885.35 885.10 885.11 885.08 885.02 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.11 885.16 885.18 885.10 885.03	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.77 884.77 884.77 884.78 884.78	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.39 884.39 884.51 884.51 884.53 884.53 884.53 884.53 884.53	884.30 884.24 884.22 884.18 884.11 884.11 884.17 884.17 884.09 884.06 884.04 884.04 884.04 884.04 884.04 884.04 883.95 884.04 883.95 884.04 883.95 884.04
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.61 885.64 885.41 885.46 885.47 885.46 885.47 885.46 885.47 885.46	JUN 885.35 885.35 885.10 885.11 885.02 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.16 885.18 885.11 885.16 885.13 885.10 885.13 885.10 885.03	JUL 884.90 884.91 884.89 884.89 884.88 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.77 884.78 884.73 884.73 884.73 884.73	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.53 884.53 884.53 884.53 884.53 884.53 884.53 884.48 884.44 884.44 884.44	884.30 884.30 884.24 884.22 884.18 884.11 884.17 884.17 884.09 884.04 884.04 884.04 884.04 884.04 884.04 884.04 884.05 884.05 884.05 884.04 883.95 884.04 883.95 883.87 883.87 883.84 883.94 883.94 883.92 883.92 883.92
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					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.61 885.62 885.51 885.40 885.49 885.48 885.49 885.48 885.49	JUN 885.35 885.35 885.10 885.11 885.02 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.11 885.16 885.18 885.10 885.13 885.11 885.02 885.03 885.03 885.03 885.03	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.87 884.75 884.75 884.75 884.73 884.73 884.73 884.73 884.73	AUG 884.52 884.51 884.49 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.48 884.54 884.53 884.53 884.53 884.53 884.48 884.53 884.48 884.54	884.30 884.30 884.24 884.22 884.11 884.11 884.17 884.09 884.04 884.04 884.03 884.04 884.04 884.04 884.04 884.05 884.04 884.05 884.04 883.95 884.04 883.95 883.87 883.84 883.94 883.94 883.94 883.94 883.94 883.94 883.85 883.85
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.65 885.61 885.62 885.61 885.62 885.61 885.64 885.41 885.46 885.47 885.46 885.47 885.46 885.47 885.46	JUN 885.35 885.35 885.10 885.11 885.02 885.27 885.26 885.26 885.26 885.26 885.18 885.18 885.16 885.18 885.11 885.16 885.13 885.10 885.13 885.10 885.03	JUL 884.90 884.91 884.89 884.89 884.88 884.84 884.84 884.84 884.84 884.84 884.87 884.77 884.77 884.78 884.73 884.73 884.73 884.73	AUG 884.52 884.51 884.49 884.61 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.53 884.53 884.53 884.53 884.53 884.53 884.53 884.48 884.44 884.44 884.44	884.30 884.30 884.24 884.22 884.18 884.11 884.17 884.17 884.09 884.04 884.04 884.04 884.04 884.04 884.04 884.04 884.05 884.05 884.05 884.04 883.95 884.04 883.95 883.87 883.87 883.84 883.94 883.94 883.92 883.92 883.92
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30					FEB	LY LOWES' MAR	APR	MAY 885.74 885.72 885.72 885.72 885.71 885.69 885.69 885.61 885.62 885.61 885.62 885.61 885.62 885.64 885.57 885.51 885.49 885.49 885.49 885.49 885.40 885.30 885.30	JUN 885.35 885.35 885.10 885.11 885.02 885.22 885.26 885.26 885.26 885.26 885.18 885.18 885.18 885.11 885.16 885.18 885.11 885.10 885.10 885.10 885.10 885.10	JUL 884.90 884.91 884.89 884.89 884.89 884.84 884.84 884.84 884.84 884.84 884.77 884.75 884.77 884.78 884.73 884.73 884.73 884.73	AUG 884.52 884.61 884.62 884.61 884.63 884.61 884.40 884.39 884.39 884.39 884.39 884.39 884.48 884.51 884.53 884.53 884.53 884.53	884.30 884.24 884.22 884.18 884.11 884.17 884.17 884.09 884.06 884.04 884.03 884.04 884.04 884.03 884.04 884.04 883.95 884.04 883.95 883.87 883.84 883.94 883.94 883.82

SITE NUMBER FROM LOCATION MAP.—57.

COUNTY.—Custer.

LOCAL WELL NUMBER.—3S1E18DDDB2.

SITE ID (STATION NUMBER).—434700104021402.

OTHER IDENTIFIER.—CU-93D and Boles Canyon Mnls.

LOCATION.—Lat 43°47′01.7″, long 104°02′15.5″, in NW¹/4SE¹/4SE¹/4SE¹/4SE¹/4 sec. 18, T. 3 S., R. 1 E., Hydrologic Unit 10120107, about 10 mi west of Jewel Cave. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 450 ft deep with 365 ft of 5-in. steel casing; 3-in. PVC screen from 320 to 415 ft; open hole completion prior to May 23, 1994.

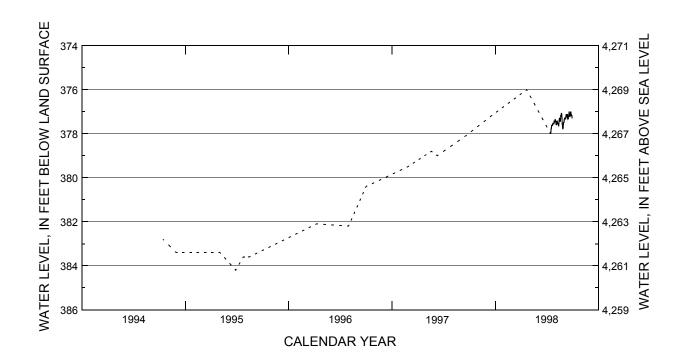
INSTRUMENTATION.—Intermittent taped measurements; electronic data logger since July 15, 1998.

DATUM.—Elevation of land-surface datum is 4,645.0 ft above sea level. Measuring point: Top of steel casing, 2.20 ft above land-surface datum.

REMARKS.—Two previously reported water levels on Sept. 16, 1993, and May 23, 1994, were made while the well openings were plugged, so not used. Well was reconstructed on May 23, 1994.

PERIOD OF RECORD.—September 1993 to September 1998.

EXTREMES.—Highest daily water level, 376.0 ft below land-surface datum, Apr. 22, 1998; lowest daily water level, 384.2 ft below land-surface datum, June 28, 1995.



SITE NUMBER 57—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					DAILY	LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2												
3								e383.4				
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14	e382.8											
15											e383.6	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25										e383.6		
26 27												
28									e384.2			
29		e383.4										
30												
.31												
31 LOW	382.80	383.40						383.40	384.20	383.60	383.60	
		383.40			 LAND-SURFACE	 DATUM		383.40	384.20	383.60	383.60	
		383.40			 LAND-SURFACE	 DATUM	 , WATER YI	383.40	384.20	383.60	383.60	
LOW	382.80 OCT	383.40 WATER LEVEL,	IN FEET	BELOW	LAND-SURFACE DAILY FEB	DATUM LOWES	., WATER YI ST VALUES APR	383.40 EAR OCTOE	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	 SEP
LOW DAY	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	 , WATER YI ST VALUES APR	383.40 EAR OCTOE MAY	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
LOW DAY 1 2	382.80 OCT	383.40 WATER LEVEL,	IN FEET	BELOW	LAND-SURFACE DAILY FEB	DATUM LOWES	., WATER YI ST VALUES APR	383.40 EAR OCTOE	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	, WATER YI ST VALUES APR	383.40 EAR OCTOE MAY	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
LOW DAY 1 2	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR	383.40 EAR OCTOE MAY	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5	382.80 OCT 	383.40 WATER LEVEL, NOV	IN FEET	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	, WATER YI ST VALUES APR 	383.40 EAR OCTOB MAY	384.20 SER 1995 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	, WATER YI ET VALUES APR 	383.40 EAR OCTOB MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
LOW DAY 1 2 3 4 5 6 7	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	, WATER YI TVALUES APR	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	, WATER YI ST VALUES APR 	383.40 EAR OCTOE MAY	384.20 JUN 	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5 6 7 8	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	, WATER YI TVALUES APR	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5 6 7 8 8 9 10 11 12	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES MAR	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	a, WATER YI APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 BER 1996 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	a, WATER YI APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	BELOW JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	apr	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	382.80 OCT	383.40 WATER LEVEL, NOV	IN FEET DEC	JAN	LAND-SURFACE DAILY FEB	DATUM LOWES	a, WATER YI APR e382.1	383.40 EAR OCTOE MAY	384.20 JUN	383.60 TO SEPTEMI JUL	383.60 AUG	SEP

26 27

28 29

30 31

LOW

--- 382.20

--- ---

--- e382.2

--- 382.10

e Estimated

SITE NUMBER 57—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DATLY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP e380.4 ___ ___ ___ ___ ___ ___ ___ ___ ___ 2 ___ ___ ------5 ___ ---___ ------___ ---------___ --10 --e379.0 12 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 13 ---------15 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 17 -----e378.1 ---------------18 ---------------___ ___ 20 ___ e378.8 21 22 23 ---25 -----------e379.5 2.7 ---------------------------------28 ---------------------------------30 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 31 LOW 380.40 379.50 ___ ___ 378.80 379.00 378.10 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 377.37 377.49 2 ------------------------------377.38 377.35 377.30 377.30 377.44 ___ 377.53 ---------------------5 ---------377.61 377.29 ------------------------------377.44 377.33 8 377.43 377.22 ------------377.53 10 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 377.52 377.15 ---------------___ ___ ___ ___ ___ ___ ___ 12 377.60 377.20 377.11 ---377.63 13 ------377.53 377.29 ---___ ___ ___ ___ ___ 377.99 15 377 40 377.34 ---------377.99 377.28 ---___ ___ ___ ___ 377.88 377.77 17 e377.2 377.36 377.22 377.37 377.16 18 ---19 377.69 377.45 377.00 ------------------20 ------377.60 377.35 377.11 21 ___ ___ 377.63 377.18 377.18 ------------------377.63 377.56 377.24 377.18 2.2 --e376.0 ---377.19 377.06 23 25 ---------------------------377.55 377.28 377.00 ---377.56 377.54 ___ ___ ___ ___ ___ ___ ___ 377.56 377.47 377.70 377.79 377.20 377.16 2.7 ___ ___ 28 29 ---------------------------377.41 377.73 377.54 377.18 ___ ___ 30 377.46 377 30 31 377.43 377.49 377.79 LOW ---___ 377.20 ------___ 376.00 ---___ 377.99 377.49

e Estimated

SITE NUMBER FROM LOCATION MAP.—58.

COUNTY.—Custer.

LOCAL WELL NUMBER.—3S4E24BCDD.

SITE ID (STATION NUMBER).—434634103351801.

OTHER IDENTIFIER.—CU-86A and Custer Test.

LOCATION.—Lat 43°46′27.1″, long 103°35′33.4″, in SE¹/4SE¹/4SW¹/4NW¹/4 sec. 24, T. 3 S., R. 4 E., Hydrologic Unit 10120109, at Custer. Owner: City of Custer.

AQUIFER.—Precambrian.

WELL CHARACTERISTICS.—Drilled observation well, 160 ft deep with 18 ft of 6-in. PVC casing; open hole from 18 to 160 ft.

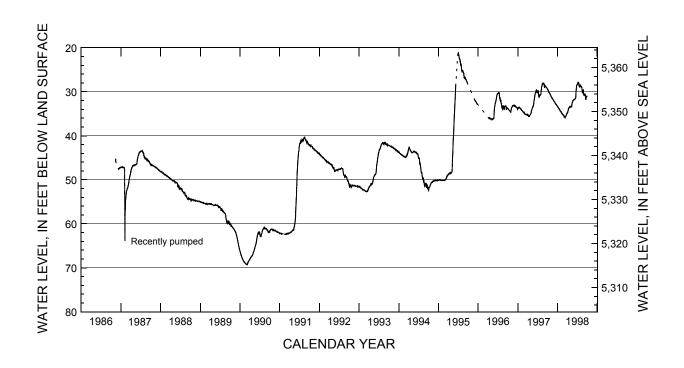
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 5,384.5 ft above sea level. Measuring point: Top of PVC casing, 1.00 ft above land-surface datum.

REMARKS.—Records good. Drawdown during February 1987 from aquifer test.

PERIOD OF RECORD.—November 1986 to September 1998.

EXTREMES.—Highest daily water level, 21.20 ft below land-surface datum, July 1, 1995; lowest daily water level, 69.27 ft below land-surface datum, Mar. 9, 1990.



SITE NUMBER 58—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURFA	ACE DATUM		EAR OCTOB	ER 1994 T	O SEPTEMB	ER 1995	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	52.20 52.48 52.61 52.22 52.01	50.59 50.59 50.59 50.57 50.54	50.17 50.17 50.17 50.18 50.19	50.15 50.17 50.17 50.16 50.04	50.11 50.11 50.15 50.11 50.11	50.16 50.08 50.02 49.99 49.98	48.83 48.82 48.82 48.78 48.77	48.52 48.36 48.36 48.34 48.29	33.19 32.76 32.32 31.93 31.38	21.20 21.31 21.24 21.31 21.24	24.53 24.73 25.10 25.14 25.22	26.73 26.81 26.87 26.90 26.98
6 7 8 9 10	51.86 51.86 51.85 51.79 51.71	50.56 50.48 50.51 50.48 50.44	50.15 50.13 50.18 50.12 50.14	50.03 50.03 50.06 50.05 50.02	50.10 50.14 50.11 50.08 50.07	49.99 50.08 50.00 49.95 49.92	48.69 48.66 48.62 48.67 48.66	48.18 48.07 47.85 46.65 45.80	30.58 29.99 29.47 28.93 28.48	21.64 21.70 21.55 21.88 21.74	25.46 25.59 25.18 25.17 25.15	27.03 26.96 27.10 27.13 27.15
11 12 13 14 15	51.66 51.65 51.62 51.56 51.46	50.38 50.35 50.39 50.44 50.44	50.09 50.16 50.14 50.09 50.09	50.01 50.05 50.08 50.06 50.02	50.10 50.12 50.11 50.05 50.07	49.85 49.77 49.75 49.72 49.67	48.63 48.69 48.70 48.57 48.62	45.17 44.62 44.16 43.69 42.79	 	22.02 22.31 22.54 22.63 22.57	25.16 25.20 25.21 25.28 25.38	27.21 27.28 27.27 27.37 27.42
16 17 18 19 20	51.41 51.37 51.23 51.19 51.12	50.33 50.28 50.34 50.34 50.28	50.11 50.19 50.14 50.14 50.20	50.01 50.06 50.08 50.14 50.11	50.12 50.12 50.16 50.17 50.18	49.54 49.53 49.43 49.30 49.32	48.64 48.58 48.57 48.60 48.49	42.04 41.47 40.99 40.54 40.10	 	22.60 22.51 22.61 22.98 23.21	25.41 25.47 25.56 25.64 25.71	27.51 27.54 27.57 27.61 27.76
21 22 23 24 25	51.04 50.98 50.95 50.93 50.89	50.34 50.34 50.33 50.26 50.24	50.23 50.25 50.18 50.12 50.13	50.08 50.07 50.07 50.11 50.10	50.11 50.10 50.14 50.11 50.06	49.16 49.12 49.11 49.01 49.01	48.58 48.57 48.55 48.53 48.50	39.41 38.76 38.20 37.66 37.18	 	23.23 22.96 23.07 23.51 23.70	25.78 25.88 25.90 26.30 26.60	27.82 27.82 27.89 28.00 28.07
26 27 28 29 30 31	50.81 50.75 50.70 50.71 50.69 50.67	50.13 50.13 50.19 50.20 50.19	50.11 50.16 50.12 50.15 50.16	50.04 50.09 50.15 50.15 50.12 50.11	50.08 50.14 50.13 	48.99 49.03 48.98 49.00 48.89 48.86	48.58 48.50 48.46 48.48 48.44	36.63 36.06 35.43 34.86 34.25 33.68	21.59 21.47 21.40	23.95 24.10 23.90 23.86 24.10 24.29	26.67 26.87 26.91 26.71 26.68 26.71	28.10
LOW	52.61	50.59	50.25	50.17	50.18	50.16	48.83	48.52	33.19	24.29	26.91	28.10
Low												
1011		WATER LEV	EL, IN FEI	ET BELOW	LAND-SURFA	ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	WATER LEV	EL, IN FEI DEC	ET BELOW JAN				EAR OCTOB	ER 1995 T JUN	O SEPTEMB: JUL	ER 1996 AUG	SEP
					DA	ILY LOWES	T VALUES					SEP 33.45 33.38 33.34 33.31 33.24
DAY 1 2 3 4	OCT	NOV 	DEC 31.82 31.91 31.97 31.97	JAN 	DA FEB 	MAR	APR	MAY 36.19 36.21 36.22 36.24	JUN 33.59 33.44 33.29 33.09	JUL 30.41 30.39 30.40 30.36	AUG 32.62 32.67 32.85 33.04	33.45 33.38 33.34 33.31
DAY 1 2 3 4 5 6 7 8 9	OCT	NOV	DEC 31.82 31.91 31.97 31.97 32.05 32.09 32.29 32.24	JAN	DA FEB	ILY LOWES MAR	APR 36.02	MAY 36.19 36.21 36.22 36.24 36.30 36.37 36.37 36.37 36.37	JUN 33.59 33.44 33.29 33.09 32.92 32.81 32.77 32.64 32.51 32.42	JUL 30.41 30.39 30.40 30.36 30.28 30.27 30.27 30.27 30.24 30.24	AUG 32.62 32.67 32.85 33.04 33.15 33.36 33.54 33.67 33.70 33.40	33.45 33.38 33.34 33.24 33.24 33.22 33.22 33.22
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT	NOV	DEC 31.82 31.91 31.97 31.97 32.05 32.09 32.29 32.24 32.24 32.24 32.23 32.23 32.23 32.23	JAN	DA FEB	ILY LOWES MAR	APR 36.02 35.98 35.98 36.06 36.05 36.14	MAY 36.19 36.21 36.22 36.24 36.30 36.37 36.37 36.37 36.37 36.32 36.30 36.24	JUN 33.59 33.44 33.29 33.09 32.92 32.81 32.77 32.64 32.51 32.42 32.38 32.27 32.18 32.04	JUL 30.41 30.39 30.40 30.36 30.28 30.27 30.27 30.24 30.24 30.23 30.25 30.26 30.26 30.29	AUG 32.62 32.67 32.85 33.04 33.15 33.36 33.54 33.70 33.40 33.18 33.46 33.71 33.92	33.45 33.38 33.34 33.31 33.24 33.23 33.24 33.22 33.22 33.35 33.30 33.26 33.24
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV	DEC 31.82 31.91 31.97 31.97 32.05 32.09 32.22 32.24 32.24 32.23 32.23 32.25 32.38 32.41 32.43 32.51 32.55 32.58	JAN	DA FEB	ILY LOWES MAR	APR 36.02 35.98 35.98 35.98 35.98 36.06 36.14 36.13 36.09 35.99 36.05 36.14 36.13	MAY 36.19 36.21 36.22 36.24 36.30 36.37 36.37 36.37 36.37 36.37 36.32 36.34 36.32 36.32 36.34	JUN 33.59 33.44 33.29 33.09 32.92 32.81 32.77 32.64 32.51 32.42 32.38 32.27 32.18 32.04 31.91 31.82 31.71 31.46 31.26	JUL 30.41 30.39 30.40 30.36 30.28 30.27 30.27 30.24 30.24 30.23 30.25 30.26 30.26 30.29 30.56	AUG 32.62 32.67 32.85 33.04 33.15 33.36 33.54 33.70 33.40 33.18 33.46 33.71 33.92 33.87 33.56 33.41 33.92 33.87	33.45 33.38 33.34 33.24 33.22 33.22 33.22 33.35 33.22 33.35 33.26 33.26 33.26 33.26 33.26 33.26 33.26 33.26
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	DEC 31.82 31.91 31.97 31.97 32.05 32.09 32.22 32.24 32.24 32.23 32.25 32.38 32.41 32.43 32.51 32.55 32.58 32.62 32.71 32.73 32.75 32.80	JAN	DA FEB	ILY LOWES MAR	APR 36.02 35.98 35.98 35.98 36.06 36.05 36.14 36.13 36.09 35.99 36.18 36.15 36.15 36.15	MAY 36.19 36.21 36.22 36.24 36.30 36.37 36.37 36.37 36.37 36.37 36.31 36.32 36.36 36.31 36.14 36.22 36.12 36.14 36.22 36.14	JUN 33.59 33.44 33.29 33.09 32.92 32.81 32.77 32.64 32.51 32.42 32.38 32.27 32.18 32.04 31.91 31.82 31.71 31.82 31.71 31.86 31.16 30.97 30.90 30.74 30.71	JUL 30.41 30.39 30.40 30.36 30.28 30.27 30.24 30.24 30.23 30.25 30.26 30.29 30.56 30.80 31.11 31.27 31.60 31.63 31.30 31.42 31.73 31.93	AUG 32.62 32.67 32.85 33.04 33.15 33.36 33.54 33.67 33.70 33.40 33.18 33.46 33.71 33.92 33.87 33.56 33.41 33.23 33.22 33.25 33.46 33.73	33.45 33.38 33.34 33.24 33.22 33.22 33.22 33.35 33.22 33.30 33.26 33.26 33.26 33.26 33.27 33.26 33.27 33.26 33.27

SITE NUMBER 58—Continued

		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM			ER 1996 '	TO SEPTEME	BER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	33.84 33.89 33.89 33.93 33.92	34.06 33.97 33.86 33.71 33.65	33.17 33.17 33.22 33.21 33.19	33.90 33.89 33.80 33.70 33.72	34.05 34.10 34.15 34.22 34.22	34.83 34.83 34.91 34.99 35.05	35.27 35.32 35.32 35.24 35.26	35.00 34.92 34.88 34.72 34.58	31.82 31.65 31.50 31.36 31.14	30.03 30.03 29.93 29.93 29.93	30.45 30.13 29.92 29.78 29.66	28.34 28.77 29.04 29.12 28.91
6 7 8 9	33.99 34.01 34.04 34.12 34.12	33.57 33.53 33.53 33.46 33.44	33.21 33.33 33.33 33.31 33.29	33.72 33.66 33.64 33.62 33.58	34.25 34.28 34.29 34.31 34.34	35.05 35.07 35.12 35.14 35.13	35.38 35.48 35.52 35.49 35.58	34.40 34.26 34.20 34.15 34.06	30.95 30.82 30.69 30.58 30.50	29.90 29.92 29.89 30.24 30.52	29.45 29.16 28.92 28.72 28.71	28.77 28.73 28.73 28.71 28.71
11 12 13 14 15	34.13 34.18 34.18 34.23 34.24	33.41 33.42 33.37 33.32 33.16	33.37 33.39 33.42 33.47 33.50	33.64 33.67 33.68 33.62 33.65	34.34 34.34 34.39 34.43 34.51	35.14 35.12 35.20 35.20 35.20	35.55 35.55 35.55 35.56 35.64	33.99 33.88 33.76 33.72 33.68	30.34 30.25 30.12 30.09 29.96	30.78 30.73 30.88 30.86 31.14	28.63 28.56 28.46 28.34 28.22	28.67 28.70 28.78 28.80 28.82
16 17 18 19 20	34.28 34.32 34.34 34.30 34.37	33.16 33.16 33.15 33.11 33.15	33.46 33.50 33.50 33.51 33.51	33.72 33.70 33.75 33.75 33.72	34.52 34.52 34.59 34.61 34.63	35.16 35.23 35.26 35.26 35.25	35.64 35.64 35.58 35.52 35.44	33.61 33.53 33.45 33.49 33.43	29.90 29.82 29.76 29.75 29.64	31.23 31.22 31.21 31.32 31.06	28.31 28.25 28.18 28.16 28.16	28.86 28.87 28.92 29.02 29.06
21 22 23 24 25	34.46 34.52 34.54 34.54 34.47	33.15 33.15 33.21 33.21 33.22	33.52 33.58 33.70 33.70 33.71	33.71 33.75 33.76 33.83 33.84	34.67 34.73 34.77 34.79 34.76	35.21 35.21 35.19 35.18 35.19	35.34 35.31 35.29 35.26 35.24	33.36 33.34 33.29 33.22 33.16	29.61 29.57 29.83 30.18 29.89	30.98 30.84 30.82 30.72 30.74	28.13 28.10 28.09 28.09 28.15	29.06 29.08 29.15 29.15 29.18
26 27 28 29 30 31	34.67 34.68 34.68 34.56 34.40 34.19	33.24 33.27 33.18 33.11 33.18	33.72 33.70 33.76 33.79 33.94 33.90	33.85 33.94 33.96 34.06 33.97 33.97	34.76 34.69 34.73 	35.24 35.12 35.15 35.23 35.23 35.23	35.20 35.18 35.08 35.07 35.06	32.97 32.73 32.49 32.29 32.13 31.98	29.76 29.70 30.15 30.34 30.20	30.72 30.68 30.78 30.71 30.68 30.63	28.09 28.09 28.12 28.13 28.19 28.24	29.18 29.25 29.30 29.37 29.42
LOW	34.68	34.06	33.94	34.06	34.79	35.26	35.64	35.00	31.82	31.32	30.45	29.42
		WATER LEV	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM			ER 1997 '	TO SEPTEME	BER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW JAN					ER 1997 :	TO SEPTEME	BER 1998 AUG	SEP
DAY 1 2 3 4 5					DA	AILY LOWES	T VALUES					SEP 30.59 30.85 30.98 30.77 30.69
1 2 3 4	OCT 29.44 29.44 29.51 29.53	NOV 30.97 31.01 31.02 31.09	DEC 32.21 32.26 32.28 32.31	JAN 33.32 33.33 33.40 33.41	FEB 34.52 34.62 34.63 34.70	MAR 35.51 35.59 35.53 35.55	APR 34.85 34.85 34.85 34.85 34.80	MAY 33.35 33.36 33.38 33.45	JUN 31.86 31.82 31.82 31.82	JUL 28.37 28.26 28.23 28.20	AUG 28.66 28.66 28.68 28.69	30.59 30.85 30.98 30.77
1 2 3 4 5 6 7 8 9	OCT 29.44 29.44 29.51 29.53 29.58 29.66 29.66 29.72 29.79 29.85	NOV 30.97 31.01 31.02 31.09 31.15 31.18 31.19 31.28 31.34 31.34	DEC 32.21 32.26 32.28 32.31 32.34 32.34 32.37 32.50 32.62	JAN 33.32 33.40 33.41 33.48 33.56 33.61 33.61 33.64 33.67	FEB 34.52 34.62 34.63 34.70 34.74 34.81 34.78 34.84 34.91	MAR 35.51 35.59 35.53 35.55 35.59 35.60 35.60 35.69 35.72 35.81 35.84	APR 34.85 34.85 34.85 34.85 34.80 34.67 34.54 34.44 34.31 34.20 34.11	MAY 33.35 33.36 33.38 33.45 33.41 33.41 33.41 33.43	JUN 31.86 31.82 31.82 31.81 31.81 31.79 31.73 31.70 31.65	JUL 28.37 28.26 28.23 28.20 28.11 28.04 28.03 28.06 27.97 28.01	AUG 28.66 28.68 28.69 28.73 28.80 28.78 28.79 28.87	30.59 30.85 30.98 30.77 30.69 30.63 30.64 30.63
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 29.44 29.44 29.51 29.53 29.58 29.66 29.72 29.79 29.85 29.84 29.95 30.06 30.14	NOV 30.97 31.01 31.02 31.09 31.15 31.18 31.19 31.28 31.34 31.34 31.40 31.40 31.40 31.44	DEC 32.21 32.26 32.28 32.31 32.34 32.34 32.34 32.37 32.50 32.62 32.67 32.70 32.74 32.75	JAN 33.32 33.33 33.40 33.41 33.48 33.56 33.61 33.64 33.67 33.73 33.78 33.80 33.80	DF FEB 34.52 34.62 34.63 34.70 34.74 34.81 34.84 34.91 34.99 34.98 34.99 35.01 35.01	MAR 35.51 35.59 35.53 35.55 35.59 35.60 35.69 35.72 35.81 35.84 35.89 35.78	APR 34.85 34.85 34.85 34.80 34.67 34.54 34.44 34.31 34.20 34.11 34.01 33.84 33.74	MAY 33.35 33.36 33.38 33.45 33.42 33.41 33.41 33.43 33.43 33.43	JUN 31.86 31.82 31.82 31.81 31.81 31.79 31.70 31.65 31.66 31.61 31.58	JUL 28.37 28.26 28.23 28.20 28.11 28.04 28.03 28.06 27.97 28.01 27.88 27.87 27.88 27.99	AUG 28.66 28.68 28.69 28.73 28.80 28.78 28.87 28.90 28.92 29.07 29.04	30.59 30.85 30.98 30.77 30.69 30.63 30.54 30.56 30.60 30.60 30.60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 29.44 29.44 29.51 29.53 29.58 29.66 29.66 29.72 29.79 29.85 29.84 29.95 30.06 30.14 30.24 30.24 30.23 30.31	NOV 30.97 31.01 31.02 31.09 31.15 31.18 31.19 31.28 31.34 31.34 31.40 31.40 31.461 31.62 31.64 31.67 31.70	DEC 32.21 32.26 32.31 32.34 32.34 32.34 32.37 32.50 32.62 32.67 32.77 32.77 32.77 32.78 32.81 32.81	JAN 33.32 33.33 33.40 33.41 33.48 33.56 33.61 33.61 33.67 33.73 33.73 33.80 33.82 33.83 33.93 33.93 34.02	FEB 34.52 34.62 34.63 34.70 34.74 34.81 34.84 34.91 34.99 34.98 34.99 35.01 35.02 35.07	MAR 35.51 35.59 35.53 35.55 35.59 35.60 35.69 35.72 35.81 35.84 35.89 35.78 35.78 35.78 35.74 35.72 35.63 35.53	APR 34.85 34.85 34.85 34.85 34.80 34.67 34.54 34.31 34.20 34.11 34.01 33.84 33.74 33.71 33.66 33.63 33.61 33.56	MAY 33.35 33.36 33.38 33.45 33.41 33.41 33.43 33.41 33.295 32.78 32.62 32.55 32.46 32.38 32.34	JUN 31.86 31.82 31.82 31.81 31.81 31.79 31.70 31.65 31.66 31.61 31.58 31.49 31.49 31.49 31.28 30.68	JUL 28.37 28.26 28.23 28.20 28.11 28.04 28.03 28.06 27.97 28.01 27.88 27.87 27.88 27.99 28.05 28.35 28.56	AUG 28.66 28.68 28.69 28.73 28.80 28.79 28.87 28.90 28.92 29.07 29.02 29.44 29.67 29.81 30.02 30.14 30.34	30.59 30.85 30.98 30.77 30.69 30.63 30.54 30.56 30.60 30.60 31.02 31.33 31.47 31.51 31.71
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 29.44 29.44 29.51 29.53 29.58 29.66 29.66 29.72 29.79 29.85 29.84 29.95 30.06 30.14 30.24 30.23 30.31 30.35 30.40 30.42 30.42 30.42 30.55	NOV 30.97 31.01 31.02 31.09 31.15 31.18 31.19 31.28 31.34 31.40 31.40 31.40 31.40 31.41 31.62 31.64 31.67 31.70 31.72 31.76 31.84 31.87 31.93	32.21 32.26 32.28 32.31 32.34 32.34 32.37 32.50 32.62 32.67 32.77 32.77 32.77 32.77 32.78 32.79 32.78 32.81 32.89 32.90 32.98 33.98	JAN 33.32 33.40 33.41 33.48 33.56 33.61 33.61 33.67 33.73 33.73 33.80 33.82 33.83 33.93 34.02 34.02 34.09 34.13 34.16 34.22 34.22	FEB 34.52 34.62 34.63 34.70 34.74 34.81 34.78 34.84 34.91 34.99 35.01 35.02 35.07 35.08 35.10 35.21 35.26 35.25 35.25 35.29 35.36	MAR 35.51 35.59 35.53 35.55 35.59 35.60 35.69 35.72 35.81 35.84 35.89 35.78 35.78 35.78 35.74 35.72 35.63 35.53 35.53 35.53 35.53	APR 34.85 34.85 34.85 34.85 34.85 34.67 34.54 34.44 34.31 34.20 34.11 34.01 33.84 33.74 33.71 33.66 33.63 33.61 33.56 33.60 33.53 33.47	MAY 33.35 33.36 33.38 33.45 33.41 33.41 33.41 33.43 33.41 33.295 32.78 32.62 32.55 32.46 32.38 32.34 32.29 32.21 32.08 32.03	JUN 31.86 31.82 31.82 31.81 31.81 31.79 31.70 31.65 31.66 31.61 31.58 31.49 31.49 31.49 31.49 31.49 31.49 31.28 30.68 30.14	JUL 28.37 28.26 28.23 28.20 28.11 28.04 28.03 28.06 27.97 28.01 27.88 27.87 27.88 27.99 28.05 28.35 28.58 28.75 28.58 28.75 28.45	AUG 28.66 28.68 28.69 28.73 28.80 28.79 28.87 28.90 28.92 29.07 29.02 29.44 29.67 29.81 30.02 30.14 30.34 30.21 29.97 29.85 29.72	30.59 30.85 30.98 30.77 30.69 30.63 30.64 30.56 30.60 31.02 31.33 31.47 31.51 31.71 31.83 31.56

SITE NUMBER FROM LOCATION MAP.—59.

COUNTY.—Custer.

LOCAL WELL NUMBER.—3S8E19BBBB.

SITE ID (STATION NUMBER).—434652103130501.

OTHER IDENTIFIER.—CU-83C and Hermosa South.

LOCATION.—Lat 43°46′53.7″, long 103°13′07.2″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 19, T. 3 S., R. 8 E., Hydrologic Unit 10120109, 4 mi south of Hermosa. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Lakota (Inyan Kara).

WELL CHARACTERISTICS.—Drilled observation well, 760 ft deep with 676 ft of 5-in. steel casing; open hole from 676 to 760 ft.

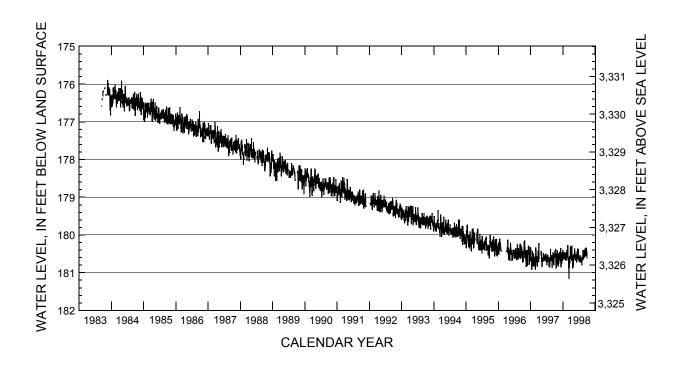
INSTRUMENTATION.—Digital water-level recorder -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,506.8 ft above sea level. Measuring point: Top of steel casing, 2.00 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—September 1983 to September 1998.

EXTREMES.—Highest daily water level, 175.89 ft below land-surface datum, Nov. 20, 1983; lowest daily water level, 181.15 ft below land-surface datum, Mar. 10-11, 1998.



SITE NUMBER 59-Continued
WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY LOWEST VALUES

NATE Color Color						DA	AILY LOWES	ST VALUES					
179.78 179.78 179.79 180.25 1	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
179.96	2 3 4	179.78 180.03 180.04	179.88 179.89 179.91	179.92 179.91 180.13	180.28 180.33 180.35	180.15 180.32 180.24	180.35 180.14 180.10	180.10 180.22 180.22	180.01 180.15 180.22	180.23 180.22 180.20	180.27 180.03 180.08	180.24 180.32 180.30	180.33 180.31 180.38
12 179,95 179,84 180,14 179,86 180,21 179,84 179,84 180,37 120,26 180,16 180,42 130 180,10 179,94 180,14 179,96 180,27 180,06 180,14 180,22 180,13 180,42 150,17 180,03 179,96 180,01 180,27 180,06 180,14 180,23 180,45 180,25 180,16 180,24 180,15 180,27 180,26 180,13 180,27 180,2	7 8 9	179.90 179.96 179.98	179.90 180.01 180.04	180.12 180.18 180.17	179.89 179.93 179.93	180.35 180.35 180.24	180.23 180.23 180.04	179.94 179.94 180.10	179.95 179.91 180.06	180.22 180.29 180.28	180.37 180.39 180.38	180.12 180.17 180.26	180.54 180.44 180.42
17 179.69 179.76 180.12 179.85 180.03 180.25 180.11 180.18 180.35 180.05 180.35 180.12 179.94 180.04 179.99 180.05 180.05 180.20 179.94 180.13 180.21 180.35 180.35 180.42 180.45 179.92 180.24 180.21 180.25 180.42 180.45 180.17 180.04 179.93 180.05 180.05 180.20 179.93 180.25 180.18 180.29 180.42 180.45 180.22 180.24 180.25 180.18 180.65 180.25 180.18 180.25 180.25 180.18 180.25 180.25 180.24 180.25 180.25 180.24 180.25 180.25 180.24 180.25 1	12 13 14	179.95 180.01 179.89	179.84 179.94 180.17	180.14 180.14 180.03	179.86 179.96 179.96	180.21 180.21 180.01	179.84 180.08 180.21		179.84 179.97 180.17	180.37 180.26 180.19	180.26 180.26 180.35	180.16 180.13 180.22	180.28 180.42 180.47
22 179,95 180.22 180.54 180.15 180.14 179.89 180.30 180.25 180.24 180.37 180.52 28 179.99 180.06 180.05 180.15 180.15 180.15 180.31 179.96 180.34 180.35 180.19 180.37 180.38 24 180.09 180.00 180.00 180.21 180.21 180.31 179.92 180.38 180.39 180.52 180.22 180.34 180.38 25 180.19 180.35 180.20 180.30	17 18 19	179.69 179.79 179.84	179.76 180.03 180.04	180.12 180.12 179.98	179.85 179.94 180.05	180.03 180.18 180.20	180.25 180.17 179.93		180.11 180.13 180.24	180.18 180.21 180.21	180.38 180.35 180.29	180.05 180.31 180.42	180.35 180.35 180.45
27 179, 84 179, 77 180.13 180.11 180.37 180.36 180.23 180.30 180.20 180.20 180.15 28 179, 87 179, 94 180.13 180.29 180.42 180.34 180.34 180.44 180.33 180.33 180.30 29 179, 99 180.02 180.14 180.32 180.34 180.41 180.46 180.31 180.30 180.00 30 180.03 179, 97 180.21 180.24 180.29 180.34 180.49 180.29 180.32 180.13 31 180.02 180.25 180.09 180.22 180.29 180.41 180.49 180.41 180.42 180.62 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DATUE OF SETTING O	22 23 24	179.95 179.99 180.09	180.22 180.26 180.09	180.24 180.22 180.07	180.15 180.15 180.21	180.14 180.31 180.31	179.89 179.96 179.92		180.30 180.34 180.38	180.25 180.35 180.39	180.24 180.19 180.22	180.39 180.37 180.24	180.52 180.38 180.38
DAY	27 28 29 30	179.84 179.87 179.99 180.03	179.77 179.94 180.02 179.97	180.13 180.13 180.14 180.21	180.11 180.29 180.32 180.24	180.37 180.42 	180.26 180.34 180.34 180.29		180.23 180.37 180.41 180.38	180.30 180.40 180.46 180.49	180.20 180.33 180.31 180.29	180.29 180.34 180.30 180.32	180.15 180.14 180.00 180.13
DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP	LOW	180.11	180.26	180.25	180.35	180.42	180.42	180.22	180.41	180.49	180.41	180.42	180.62
1 180.15 180.32 180.11 180.42 180.42 180.54 180.59 180.48 180.22 180.42 180.66 180.58 180.42 180.32 180.18 180.42 180.35 180.20 180.43 180.69 180.50 180.27 180.32 4 179.99 180.42 180.33 180.50 180.53 180.55 180.44 180.42 180.66 180.55 180.44 180.24 180.27 180.22 180.33 180.50 180.55 180.44 180.44 180.27 180.22 180.33 180.50 180.59 180.48 180.51 180.33 180.54 180.55 180.55 180.54 180.55 180.55 <td< th=""><th></th><th></th><th>WATER LEV</th><th>EL, IN FE</th><th>ET BELOW</th><th></th><th></th><th></th><th>EAR OCTOB</th><th>ER 1995 T</th><th>O SEPTEMB</th><th>ER 1996</th><th></th></td<>			WATER LEV	EL, IN FE	ET BELOW				EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
2	DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
7 180.22 180.39 180.38 180.51 180.49 180.67 180.51 180.56 180.44 8 180.20 180.41 180.51 180.35 180.44 180.67 180.57 180.65 180.42 10 180.27 180.30 180.51 180.34 180.38 180.69 180.52 180.56 180.51 180.56 11 180.23 180.33 180.44 180.37 180.33 180.69 180.50 180.56 180.51 180.56 12 180.18 180.22 180.30 180.36 180.33 180.69 180.50 180.56 180.51 180.63 12 180.18 180.22 180.30 180.36 180.33 180.69 180.50 180.56 180.51 180.56 13 180.22 180.30 180.36 180.33 180.66 180.57 180.61 180.47 14 180.35	2 3 4	180.22 180.18 179.99	180.41 180.42 180.42	180.21 180.35 180.24	180.42 180.20 180.44				180.42 180.43 180.53	180.66 180.69 180.55	180.58 180.50 180.44	180.42 180.27 180.24	180.32 180.32 180.35
12 180.18 180.22 180.30 180.36 180.35 180.66 180.57 180.61 180.47 180.59 13 180.32 180.30 180.31 180.30 180.35 180.61 180.57 180.57 180.55 180.61 180.61 180.57 180.55 180.61 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.61 180.55 180.62 180.55 180.52 180.52 180.52 180.52 180.28 16 180.27 180.34 180.33 180.10 180.47 180.32 180.55 180.51 180.22 180.52 180.52 180.53 180.29 17 180.26 180.39 180.51 180.33 180.13 180.22 180.52 180.35 180.49 180.45 180.49 180.49 180.49	7 8 9	180.22 180.20 180.24	180.39 180.41 180.04	180.38 180.51 180.52	180.51 180.35 180.39			 180.44	180.51 180.49 180.63	180.67 180.67 180.53	180.51 180.57 180.62	180.56 180.65 180.58	180.44 180.41 180.42
17 180.26 180.39 180.51 180.33 180.13 180.22 180.52 180.35 180.48 180.39 18 180.22 180.36 180.51 180.36 180.18 180.21 180.40 180.46 180.43 180.41 19 180.44 180.47 180.50 180.32 180.23 180.49 180.49 180.46 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.42 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.49 180.4	12 13 14	180.18 180.32 180.35	180.22 180.30 180.33	180.30 180.11 180.32	180.36 180.30 180.41			180.33 180.35 180.44	180.66 180.61 180.38	180.57 180.56 180.52	180.61 180.57 180.55	180.47 180.59 180.61	180.59 180.47 180.34
22 180.25 180.41 180.57 180.28 180.50 180.35 180.49 180.56 180.60 180.39 23 180.27 180.42 180.52 180.23 180.50 180.37 180.42 180.55 180.62 180.58 24 180.29 180.38 180.49 180.23 180.40 180.50 180.47 180.63 180.58 180.56 25 180.26 180.36 180.51 180.27 180.35 180.52 180.39 180.62 180.54 180.56 26 180.14 180.15 180.49 180.29 180.49 180.42 180.59 180.59 180.45 27 180.14 180.32 180.33 180.35 180.44 180.42 180.49 180.49 180.47 28 180.22 180.32 180.44 180.34 180.65 180.47 180.66 180.53 180.47 29 <t< td=""><td>17 18 19</td><td>180.26 180.22 180.44</td><td>180.39 180.36 180.47</td><td>180.51 180.51 180.50</td><td>180.33 180.36 180.32</td><td></td><td></td><td>180.13 180.18 180.23</td><td>180.22 180.21 180.25</td><td>180.52 180.40 180.49</td><td>180.35 180.46 180.46</td><td>180.48 180.35 180.49</td><td>180.39 180.41 180.42</td></t<>	17 18 19	180.26 180.22 180.44	180.39 180.36 180.47	180.51 180.51 180.50	180.33 180.36 180.32			180.13 180.18 180.23	180.22 180.21 180.25	180.52 180.40 180.49	180.35 180.46 180.46	180.48 180.35 180.49	180.39 180.41 180.42
27 180.14 180.32 180.53 180.35 180.44 180.42 180.42 180.64 180.49 180.47 28 180.22 180.32 180.44 180.34 180.65 180.47 180.44 180.66 180.53 180.47 29 180.32 180.15 180.34 180.43 180.65 180.49 180.61 180.67 180.57 180.55	22 23 24	180.25 180.27 180.29	180.41 180.42 180.38	180.57 180.52 180.49	180.28 180.23 180.23			180.50 180.50 180.40	180.35 180.37 180.50	180.49 180.42 180.47	180.56 180.55 180.63	180.60 180.62 180.58	180.39 180.58 180.56
30	27 28 29	180.14 180.22	180.32 180.32 180.15 180.11	180.53 180.44 180.34 180.27	180.35 180.34 180.43			180.44 180.65 180.65 180.48	180.42 180.47 180.49 180.41	180.42 180.44 180.61 180.63	180.64 180.66 180.67 180.63	180.49 180.53 180.57 180.54	180.47 180.47 180.55 180.43
LOW 180.45 180.57 180.57 180.51 180.65 180.69 180.69 180.67 180.65 180.63		180.21		180.25					100.12		100.00	100.44	

SITE	NUMBE	ER 59—C	Continue	l								
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOB	ER 1996 T	O SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	180.55 180.73 180.68 180.54 180.51	180.58 180.61 180.55 180.43 180.43	180.42 180.41 180.45 180.46 180.33	180.45 180.36 180.36 180.49 180.68	180.58 180.61 180.68 180.83 180.83	180.43 180.43 180.44 180.62 180.73	180.71 180.71 180.39 180.22 180.53	180.43 180.56 180.66 180.64 180.71	180.55 180.58 180.67 180.67	180.55 180.69 180.79 180.79	180.76 180.79 180.85 180.85	180.87 180.84 180.68 180.63 180.59
6 7 8 9 10	180.65 180.63 180.57 180.70 180.71	180.45 180.63 180.66 180.69 180.69	180.29 180.52 180.52 180.41 180.30	180.70 180.64 180.63 180.59 180.65	180.79 180.82 180.79 180.74 180.78	180.73 180.56 180.67 180.70 180.59	180.63	180.67 180.62 180.84 180.84	180.62 180.56 180.57 180.68 180.66	180.71 180.67 180.69 180.65 180.56	180.78 180.60 180.66 180.72 180.68	180.57 180.66 180.71 180.65 180.51
11 12 13 14 15	180.46 180.49 180.51 180.45 180.47	180.83 180.85 180.84 180.76 180.44	180.43 180.47 180.54 180.74 180.79	180.83 180.88 180.92 180.73 180.82	180.71 180.71 180.59 180.63 180.70	180.62 180.59 180.79 180.81 180.71	 	180.82 180.77 180.60 180.67 180.69	180.60 180.54 180.56 180.56 180.51	180.54 180.54 180.61 180.71 180.69	180.69 180.68 180.52 180.37 180.59	180.46 180.55 180.56 180.52 180.51
16 17 18 19 20	180.39 180.49 180.49 180.18 180.28	180.50 180.54 180.54 180.40 180.51	180.58 180.75 180.75 180.73 180.58	180.86 180.80 180.76 180.76 180.62	180.70 180.60 180.63 180.63	180.57 180.84 180.82 180.71 180.66		180.67 180.60 180.66 180.71 180.71	180.52 180.56 180.53 180.52 180.54	180.65 180.64 180.68 180.68	180.69 180.59 180.63 180.69 180.67	180.54 180.48 180.72 180.79 180.75
21 22 23 24 25	180.45 180.45 180.39 180.39	180.52 180.52 180.74 180.75 180.73	180.47 180.54 180.69 180.69	180.43 180.51 180.51 180.66 180.69	180.62 180.80 180.87 180.92 180.79	180.69 180.69 180.57 180.65 180.64		180.64 180.63 180.66 180.55 180.48	180.56 180.50 180.56 180.64 180.72	180.67 180.60 180.59 180.59	180.67 180.66 180.62 180.64 180.65	180.70 180.80 180.75 180.64 180.56
26 27 28 29 30 31	180.55 180.61 180.59 180.32 180.50 180.56	180.81 180.61 180.42 180.46	180.65 180.32 180.44 180.47 180.53	180.61 180.82 180.78 180.78 180.63	180.53 180.41 180.33	180.55 180.42 180.56 180.59 180.58 180.43	180.49 180.47 180.46	180.55 180.68 180.68 180.69 180.69	180.72 180.59 180.59 180.60 180.58	180.72 180.83 180.85 180.78 180.75	180.61 180.59 180.54 180.62 180.56 180.77	180.51 180.56 180.56 180.60 180.58
LOW	180.73	180.85	180.79	180.92	180.92	180.84	180.71	180.84	180.72	180.85	180.85	180.87
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM		EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	180.51 180.42 180.45 180.47 180.54	180.64 180.68 180.66 180.74 180.74	180.62 180.66 180.67 180.72 180.72	180.40 180.57 180.53 180.54 180.62	180.67 180.67 180.61 180.63 180.63	180.61 180.68 180.67 180.59 180.67	180.42 180.56 180.62 180.62 180.46	180.61 180.64 180.64 180.55 180.55	180.52 180.65 180.66 180.62 180.69	180.69 180.64 180.64 180.66 180.60	180.61 180.62 180.66 180.78 180.81	180.59 180.48 180.42 180.47 180.47
6 7 8 9 10	180.49 180.42 180.54 180.52 180.37	180.64 180.76 180.83 180.83	180.51 180.35 180.57 180.80 180.85	180.62 180.51 180.59 180.61 180.57	180.59 180.47 180.58 180.63 180.66	180.67 180.79 180.86 180.92 181.15	180.44 180.52 180.61 180.66 180.68	180.51 180.54 180.57 180.60 180.58	180.73 180.68 180.57 180.61 180.50	180.65 180.71 180.72 180.70 180.69	180.70 180.60 180.58 180.67 180.63	180.56 180.58 180.48 180.39 180.36
11 12 13 14 15	180.42 180.60 180.73 180.88 180.90	180.67 180.49 180.70 180.76 180.73	180.85 180.82 180.79 180.62 180.68	180.61 180.63 180.55 180.51 180.46	180.66 180.58 180.57 180.40 180.41	181.15 180.87 180.86 180.86 180.79	180.56 180.29 180.47 180.49 180.56	180.49 180.41 180.37 180.36 180.46	180.44 180.51 180.50 180.49 180.49	180.62 180.62 180.55 180.54 180.69	180.60 180.63 180.64 180.59 180.54	180.47 180.46 180.38 180.49 180.56
16 17 18 19 20	180.76 180.70 180.80 180.83 180.86	180.66 180.63 180.62 180.51 180.50	180.56 180.56 180.75 180.75 180.47	180.48 180.59 180.59 180.49 180.58	180.42 180.53 180.58 180.58	180.75 180.57 180.70 180.74 180.74	180.64 180.64 180.66 180.74 180.84	180.55 180.47 180.59 180.67 180.67	180.38 180.38 180.36 180.39 180.45	180.72 180.69 180.63 180.61 180.57	180.41 180.51 180.47 180.55 180.65	180.54 180.47 180.42 180.34 180.46
21 22 23 24 25	180.72 180.50 180.69 180.79 180.74	180.60 180.60 180.53 180.61 180.63	180.63 180.63 180.60 180.63 180.67	180.58 180.61 180.61 180.63 180.66	180.46 180.58 180.60 180.33 180.28	180.67 180.66 180.63 180.61 180.42	180.87 180.87 180.77 180.55 180.55	180.59 180.55 180.55 180.66 180.67	180.57 180.64 180.53 180.43 180.43	180.66 180.73 180.71 180.69 180.68	180.61 180.54 180.45 180.46 180.48	180.51 180.54 180.49 180.44 180.35
26 27 28 29 30 31	180.60 180.56 180.55 180.41 180.42 180.56	180.45 180.54 180.63 180.66 180.51	180.67 180.55 180.53 180.65 180.69	180.65 180.61 180.66 180.47 180.53 180.52	180.27 180.42 180.52	180.33 180.35 180.35 180.30 180.39 180.36	180.71 180.85 180.84 180.75 180.67	180.56 180.51 180.63 180.62 180.52 180.64	180.39 180.48 180.54 180.61 180.68	180.68 180.68 180.64 180.63 180.68	180.40 180.50 180.56 180.59 180.53 180.59	180.42 180.50 180.45 180.47 180.63

180.90 180.83 180.85 180.66 180.67 181.15 180.87 180.67 180.73 180.73 180.81

180.63

LOW

SITE NUMBER FROM LOCATION MAP.—60.

COUNTY.—Custer.

LOCAL WELL NUMBER.—4S6E1DAAA.

SITE ID (STATION NUMBER).—434350103201901.

OTHER IDENTIFIER.—CU-93A and CSP Airport Mdsn.

LOCATION.—Lat 43°43′50.9″, long 103°20′20.2″, in NE¹/4NE¹/4NE¹/4SE¹/4 sec. 1, T. 4 S., R. 6 E., Hydrologic Unit 10120109, 0.6 mi east of Custer State Park airport. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 680 ft deep with 632 ft of 5-in. steel casing; open hole from 632 to 680 ft.

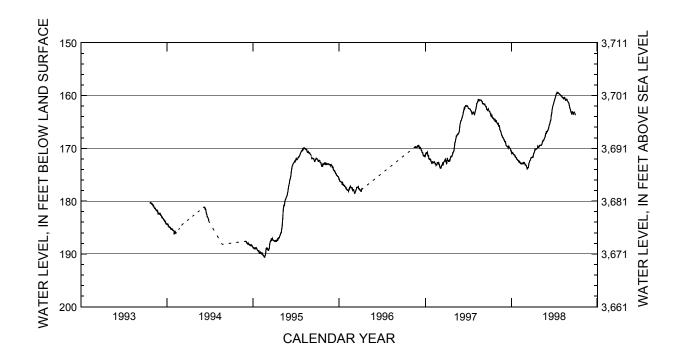
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,860.8 ft above sea level. Measuring point: Top of steel casing, 1.65 ft above land-surface datum.

REMARKS.—Records fair.

PERIOD OF RECORD.—August 1993 to September 1998.

EXTREMES.—Highest daily water level, 159.46 ft below land-surface datum, July 14, 1998; lowest daily water level, 190.63 ft below land-surface datum, Feb. 18, 19, 1995.



					Di	AILY LOWE	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			187.62	188.75	189.62	189.12	187.56	185.89	177.22	172.24	170.23	171.09
1 2			187.62	188.75	189.82	189.12	187.50	185.89	177.22	172.24	170.23	171.19
3			187.68	188.95	189.90	188.97	187.66	185.09	176.79	171.93	170.15	171.24
4			187.91	188.97	189.79	189.10	187.67	184.92	176.61	172.01	170.09	171.33
5			187.91	188.71	189.79	189.12	187.52	184.52	176.29	172.10	170.01	
6			187.91	188.93	189.91	189.32	187.55	183.95	175.91	172.17	169.93	
7			188.01	189.04	190.04	189.35	187.48	183.30	175.83	172.14	169.93	171.91
8			188.03	189.07	189.96	189.27	187.44	182.66	175.80	172.09	170.08	171.82
9 10			188.07 188.14	189.05 188.98	189.88 190.01	189.06 189.04	187.61 187.61	181.78 181.45	175.54 175.30	172.01 171.92	170.11 170.05	171.88 171.88
11			187.99	188.87	190.17	188.97	187.49	181.08	175.00	171.78	170.04	171.87
12 13			188.12 188.09	188.96 189.02	190.28 190.27	188.25 188.08	187.51 187.51	180.68 180.86	174.55 174.23	171.69 171.64	170.14 170.23	171.89 172.03
14			188.16	188.99	190.27	187.88	187.22	180.86	173.89	171.69	170.23	172.03
15			188.16	188.85	190.35	187.69	187.28	180.45	173.59	171.56	170.22	171.89
16			188.22	188.92	190.50	187.56	187.37	180.07	173.38	171.54	170.22	172.08
17			188.33	189.11	190.30	187.56	187.25	179.92	173.36	171.34	170.22	172.06
18			188.25	189.19	190.63	187.40	187.11	179.74	173.18	171.33	170.65	172.35
19			188.25	189.26	190.63	187.20	187.06	179.70	173.07	171.27	170.73	172.49
20			188.31	189.32	190.55	187.21	186.86	179.63	172.90	171.19	170.66	172.46
21			188.41	189.36	190.35	187.06	187.00	179.37	172.86	170.94	170.70	172.46
22			188.45	189.38	190.21	187.36	186.98	179.33	172.80	170.88	170.76	172.25
23			188.36	189.41	190.14	187.25	186.73	179.20	172.78	170.72	170.79	172.11
24 25			188.27 188.39	189.57 189.54	189.59 189.01	187.07 187.20	186.61 186.48	179.08 179.04	172.70 172.60	170.67 170.61	170.70 170.88	172.11 171.99
23			100.39	109.54	109.01	107.20	100.40	1/9.04	172.00	170.01	170.88	1/1.99
26			188.38	189.47	188.93	187.27	186.47	178.82	172.55	170.49	170.91	171.88
27			188.50	189.69	189.12	187.43	186.33	178.57	172.43	170.43	170.89	171.91
28 29		187.61	188.47 188.58	189.85 189.85	189.12	187.47 187.47	186.10 186.13	178.39 178.16	172.52 172.46	170.47 170.38	170.93 170.88	171.94 171.94
30		187.63	188.67	189.69		187.51	186.01	177.84	172.44	170.38	171.03	172.13
31			188.74	189.64		187.55		177.50		170.36	171.10	
LOW		187.63	188.74	189.85	190.63	189.35	187.67	185.89	177.22	172.24	171.10	172.49
шом		107.03	100.71	107.05	100.00	107.33	107.07	103.03	177.22	1/2.21	171.10	1,2.10
		MARRIED TEXT	701 TN DE	DELOW	TAND CUDE	IACE DARIE	. MARRIE M	TAR OCHOR	ED 1005 F	O GEDWENE	TD 1006	
		WATER LEV	EL, IN FE	ET BELOW			I, WATER Y ST VALUES	EAR OCTOR	BER 1995 T	O SEPTEME	BER 1996	
					Di	AILY LOWE	ST VALUES					
DAY	OCT	WATER LEV	VEL, IN FE	JAN				EAR OCTOE	BER 1995 T	O SEPTEME	BER 1996	SEP
DAY 1					Di	AILY LOWE	ST VALUES					SEP
1 2	OCT 172.16 172.22	NOV 172.93 172.98	DEC 173.26 173.39	JAN 175.94 175.94	FEB 177.74 177.74	MAR 177.78 177.93	APR 177.98 177.88	MAY	JUN	JUL	AUG	
1 2 3	OCT 172.16 172.22 172.21	NOV 172.93 172.98 173.04	DEC 173.26 173.39 173.52	JAN 175.94 175.94 175.80	FEB 177.74 177.74 177.74	MAR 177.78 177.93 177.88	APR 177.98 177.88 178.16	MAY 	JUN 	JUL 	AUG 	
1 2 3 4	OCT 172.16 172.22 172.21 172.24	NOV 172.93 172.98 173.04 173.02	DEC 173.26 173.39 173.52 173.43	JAN 175.94 175.94 175.80 176.22	FEB 177.74 177.74 177.74 177.92	MAR 177.78 177.88 177.99	APR 177.98 177.88 178.16 178.16	MAY	JUN 	JUL 	AUG 	
1 2 3	OCT 172.16 172.22 172.21 172.24 172.50	NOV 172.93 172.98 173.04 173.02 172.83	DEC 173.26 173.39 173.52	JAN 175.94 175.94 175.80 176.22 176.28	FEB 177.74 177.74 177.74 177.92 177.94	MAR 177.78 177.88 177.99 178.23	APR 177.98 177.88 178.16 178.16 178.08	MAY 	JUN 	JUL 	AUG 	
1 2 3 4 5	OCT 172.16 172.22 172.21 172.24 172.50	NOV 172.93 172.98 173.04 173.02 172.83	DEC 173.26 173.39 173.52 173.43 173.49	JAN 175.94 175.94 175.80 176.22 176.28	FEB 177.74 177.74 177.74 177.92 177.94	MAR 177.78 177.88 177.88 177.99 178.23	APR 177.98 177.88 178.16 178.08 177.78	MAY	JUN	JUL 	AUG	
1 2 3 4 5 6 7	OCT 172.16 172.22 172.21 172.24 172.50 172.50 172.36	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09	DEC 173.26 173.39 173.52 173.43 173.49 173.65 173.64	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.30	FEB 177.74 177.74 177.92 177.94 177.90 177.93	MAR 177.78 177.93 177.88 177.99 178.23 178.37 178.52	APR 177.98 177.88 178.16 178.08 177.78 177.66	MAY	JUN	JUL	AUG	
1 2 3 4 5	OCT 172.16 172.22 172.21 172.24 172.50 172.50 172.36 172.32	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07	DEC 173.26 173.39 173.52 173.43 173.49 173.65 173.64 174.05	JAN 175.94 175.80 176.22 176.28 176.30 176.30 176.33	FEB 177.74 177.74 177.74 177.92 177.94 177.93 177.98	MAR 177.78 177.88 177.88 177.99 178.23	APR 177.98 177.88 178.16 178.08 177.78	MAY	JUN	JUL 	AUG	
1 2 3 4 5 6 7	OCT 172.16 172.22 172.21 172.24 172.50 172.50 172.36	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09	DEC 173.26 173.39 173.52 173.43 173.49 173.65 173.64	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.30	FEB 177.74 177.74 177.92 177.94 177.90 177.93	MAR 177.78 177.93 177.88 177.99 178.23 178.37 178.52 178.52	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.39 172.40	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.21	JAN 175.94 175.94 175.80 176.22 176.30 176.30 176.33 176.35 176.44	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14	MAR 177.78 177.88 177.93 178.81 177.99 178.23 178.37 178.52 178.52 178.37 178.29	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78	MAY	JUN	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.32 172.39 172.40	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09	DEC 173.26 173.39 173.52 173.43 173.49 173.65 173.64 174.05 174.12 174.16	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44	FEB 177.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14	MAR 177.78 177.93 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.52	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.76	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.32 172.32 172.39 172.40	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09	DEC 173.26 173.39 173.52 173.43 173.65 173.64 174.05 174.12 174.16 174.16	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.33 176.35 176.44	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14	MAR 177.78 177.93 177.88 177.99 178.23 178.52 178.52 178.52 178.52 178.72 178.03	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78	MAY	JUN	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.32 172.39 172.40 172.35 172.70 172.70	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.95 172.98	DEC 173.26 173.39 173.52 173.43 173.65 173.64 174.05 174.12 174.16 174.16 174.16 174.24 174.24	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47	177.74 177.74 177.74 177.92 177.94 177.93 177.93 177.98 177.84 178.14 178.04 177.94 177.95	MAR 177.78 177.93 177.88 177.99 178.23 178.37 178.52 178.37 178.52 178.37 178.66 177.86	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09 173.09 173.09	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.16	JAN 175.94 175.94 175.80 176.22 176.30 176.33 176.35 176.44	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.94	MAR 177.78 177.88 177.93 178.81 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78	MAY	JUN	JUL	AUG	==== ==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.35 172.70	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09 173.09 173.09 172.95 172.98 172.98 173.00	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.16 174.24 174.44	JAN 175.94 175.94 175.80 176.22 176.30 176.33 176.35 176.44 176.46 176.47 176.61	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.91 177.61 177.50	MAR 177.78 177.88 177.93 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78 177.79	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.71 172.70 172.70 172.94	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.95 172.98	DEC 173.26 173.39 173.52 173.43 173.65 173.64 174.05 174.12 174.16 174.16 174.16 174.24 174.24	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47	177.74 177.74 177.74 177.92 177.94 177.93 177.93 177.98 177.84 178.14 178.04 177.94 177.95	MAR 177.78 177.93 177.88 177.99 178.23 178.37 178.52 178.37 178.52 178.37 178.66 177.86	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.71 172.70 172.71 172.70 172.94 173.08	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09 173.09 172.98 172.98 173.00 172.98 173.00 172.98	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.24 174.44 174.44 174.52 174.75	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.61 176.61	77. 74 177. 74 177. 74 177. 74 177. 92 177. 94 177. 93 177. 98 177. 84 178. 14 178. 04 177. 61 177. 50 177. 62	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.29 177.68 177.86 177.82 177.42 177.42 177.37 177.41	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78 177.79	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.53 172.70 172.70 172.70 172.70 173.94 173.08 173.34	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.95 172.95 173.00 172.98 173.00 172.88 173.00	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.16 174.44 174.44 174.44 174.76 174.76	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.47 176.41 176.71 176.61 176.44 176.93 176.93	177.74 177.74 177.74 177.92 177.94 177.90 177.93 177.98 177.84 178.14 178.04 177.61 177.50 177.62	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.52 178.37 178.29 178.23 177.68 177.68 177.42 177.41 177.44	APR 177.98 177.88 178.16 178.16 178.08 177.72	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.71 172.70 172.71 172.70 172.94 173.08	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.07 172.79 173.09 173.09 172.98 172.98 173.00 172.98 173.00 172.98	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.24 174.44 174.44 174.52 174.75	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.61 176.61	77. 74 177. 74 177. 74 177. 74 177. 92 177. 94 177. 93 177. 98 177. 84 178. 14 178. 04 177. 61 177. 50 177. 62	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.29 177.68 177.86 177.82 177.42 177.42 177.37 177.41	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.78 177.78 177.79	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.53 172.70 172.70 172.71 172.70 173.34 173.33 173.18	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 173.09 173.10 172.98 173.00 172.98 173.10 173.15	DEC 173.26 173.39 173.52 173.43 173.65 173.65 174.12 174.16 174.16 174.44 174.44 174.44 174.52 174.76 174.76 174.86	JAN 175.94 175.94 175.80 176.22 176.30 176.33 176.35 176.44 176.47 176.41 176.71 176.61 176.87 176.87 176.87	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.61 177.50 177.62 177.44 177.44 177.44	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.52 178.37 178.29 178.23 177.68 177.41 177.44 177.44	APR 177.98 177.88 178.16 178.16 178.08 177.72	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 172.16 172.22 172.21 172.24 172.50 172.50 172.36 172.32 172.39 172.40 172.70 172.70 172.70 172.70 172.71 172.70 172.70 173.08 173.38 173.18 173.43	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 172.95 172.98 173.00 172.98 173.00 172.88 173.10 173.15 173.13	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.16 174.44 174.24 174.44 174.486 174.76 174.76 174.76 174.76 174.86	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.41 176.61 176.44 176.93 176.97 176.87 176.86	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.61 177.62 177.62 177.43 177.44 177.44	MAR 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.03 177.86 177.86 177.86 177.41 177.44 177.44 177.32	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.76	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.71 172.70 172.71 172.70 172.71 173.34 173.34 173.43 173.43	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 173.10 172.98 173.00 172.88 173.10 173.13 173.13 173.10 173.09	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.24 174.44 174.44 174.52 174.75 174.76 174.76 174.86	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.41 176.61 176.86 177.03 176.87 176.86	77. 44 177. 74 177. 74 177. 74 177. 92 177. 94 177. 98 177. 84 178. 14 178. 04 177. 61 177. 62 177. 48 177. 44 177. 44 177. 40 177. 40	MAR 177.78 177.78 177.93 177.88 177.99 178.23 178.52 178.52 178.52 178.37 178.29 178.23 177.68 177.86 177.82 177.42 177.44 177.44 177.44 177.32 177.32	APR 177.98 177.88 177.88 178.16 178.16 178.78 177.72	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	OCT 172.16 172.22 172.21 172.24 172.50 172.50 172.36 172.32 172.39 172.40 172.70 172.70 172.70 172.70 172.71 172.70 172.70 173.08 173.38 173.18 173.43	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 172.95 172.98 173.00 172.98 173.00 172.88 173.10 173.15 173.13	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.16 174.44 174.24 174.44 174.486 174.76 174.76 174.76 174.76 174.86	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.41 176.61 176.44 176.93 176.97 176.87 176.86	77.74 177.74 177.74 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.61 177.62 177.62 177.43 177.44 177.44	MAR 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.03 177.86 177.86 177.86 177.41 177.44 177.44 177.32	APR 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.76	MAY	JUN	JUL	AUG	
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	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.39 172.40 172.35 172.70 172.70 172.70 172.70 173.08 173.34 173.33 173.18 173.43 173.43 173.43	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.10 172.98 173.00 172.98 173.10 173.13 173.13 173.13 173.13	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.24 174.24 174.44 174.44 174.52 174.76 174.76 174.86	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.41 176.61 176.47 176.61 176.87 176.87 176.87 176.87 177.03 177.04 177.05 177.24	177.74 177.74 177.74 177.92 177.94 177.93 177.93 177.98 177.84 178.14 177.61 177.62 177.62 177.48 177.44 177.21 177.30 177.43 177.44 177.45 177.45 177.45	MAR 177.78 177.93 177.88 177.99 178.23 178.52 178.52 178.62 178.79 178.29 178.23 177.86 177.86 177.86 177.41 177.41 177.44 177.32 177.28 177.69	APR 177.98 177.88 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	
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	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.53 172.70 172.71 172.70 172.71 173.34 173.34 173.43 173.43 173.43 173.43 173.44 173.94	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 173.09 173.10 173.10 173.10 173.11 173.10 173.13 173.10	DEC 173.26 173.39 173.52 173.43 173.65 173.65 174.05 174.12 174.16 174.16 174.44 174.44 174.76 174.76 174.86 175.10 175.11 175.22 175.35	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.47 176.41 176.71 176.61 176.87 176.87 177.04 177.05 177.24	77. 74 177. 74 177. 74 177. 92 177. 94 177. 93 177. 98 177. 84 178. 14 178. 04 177. 61 177. 50 177. 62 177. 48 177. 44 177. 40 177. 43 177. 44 177. 40 177. 45 177. 45 177. 45 177. 61	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 177.86 177.82 177.68 177.41 177.44 177.44 177.44 177.37 177.32 177.32 177.32 177.28 177.69	APR 177.98 177.88 178.16 178.16 178.08 177.72	MAY	JUN	JUL	AUG	
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	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.36 172.39 172.40 172.35 172.70 172.70 172.70 172.70 173.08 173.34 173.33 173.18 173.43 173.43 173.43	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.10 172.98 173.00 172.98 173.10 173.13 173.13 173.13 173.13	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.24 174.24 174.44 174.44 174.52 174.76 174.76 174.86	JAN 175.94 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.41 176.61 176.47 176.61 176.87 176.87 176.87 176.87 177.03 177.04 177.05 177.24	177.74 177.74 177.74 177.92 177.94 177.93 177.93 177.98 177.84 178.14 177.61 177.62 177.62 177.48 177.44 177.21 177.30 177.43 177.44 177.45 177.45 177.45	MAR 177.78 177.93 177.88 177.99 178.23 178.52 178.52 178.62 178.79 178.29 178.23 177.86 177.86 177.86 177.41 177.41 177.44 177.32 177.28 177.69	APR 177.98 177.88 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.70 172.71 172.70 172.71 172.70 173.34 173.33 173.43 173.43 173.43 173.43 173.43 173.07 172.94	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 173.10 173.10 173.13 173.10 173.13 173.11	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.44 174.44 174.52 174.75 174.76 174.76 174.86 175.10 175.10 175.11 175.22 175.35 175.35 175.36	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.61 176.48 177.07 177.07 177.07 177.04 177.05 177.24 177.29 177.29 177.37 177.52	77. 74 177. 74 177. 74 177. 92 177. 94 177. 93 177. 98 177. 84 178. 14 178. 04 177. 61 177. 62 177. 62 177. 48 177. 44 177. 41 177. 45 177. 45 177. 45 177. 45 177. 93	MAR 177.78 177.78 177.88 177.99 178.23 178.52 178.52 178.52 178.37 178.29 178.23 178.29 178.21 177.68 177.42 177.44 177.44 177.44 177.44 177.44 177.44 177.69 177.69	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.79	MAY	JUN	JUL	AUG	
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 30 30 30 30 30 30 30 30 30 30 30 30	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.55 172.70 172.71 172.70 172.71 173.08 173.34 173.33 173.18 173.43 173.43 173.43 173.43 173.43 173.31 173.14	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 172.95 172.98 173.00 172.88 173.00 172.88 173.10 173.15 173.13 173.10 173.13 173.11 173.11 173.12	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.16 174.44 174.44 174.44 174.52 174.76 174.76 174.86 175.10 175.13 175.21 175.22 175.35 175.40 175.40	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.47 176.61 176.47 176.61 176.48 176.93 176.97 176.86 177.03 177.07 177.04 177.04 177.05 177.24	77.74 177.74 177.79 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.61 177.50 177.62 177.48 177.44 177.40 177.45 177.45 177.45 177.45 177.45 177.45	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.03 178.03 178.03 178.03 178.03 178.03 177.86 177.42 177.37 177.41 177.44 177.32 177.28 177.69 177.69	APR 177.98 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	
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 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.70 172.71 172.70 172.71 172.70 173.34 173.33 173.43 173.43 173.43 173.43 173.43 173.07 172.94	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 173.10 173.10 173.13 173.10 173.13 173.11	DEC 173.26 173.39 173.52 173.43 173.65 174.05 174.12 174.16 174.16 174.44 174.44 174.52 174.75 174.76 174.76 174.86 175.10 175.10 175.11 175.22 175.35 175.35 175.36	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.46 176.47 176.61 176.48 177.07 177.07 177.07 177.04 177.05 177.24 177.29 177.29 177.37 177.52	FEB 177.74 177.74 177.92 177.94 177.98 177.84 178.14 178.04 177.61 177.50 177.62 177.48 177.44 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40 177.40	MAR 177.78 177.78 177.88 177.99 178.23 178.52 178.52 178.52 178.37 178.29 178.23 178.29 178.21 177.68 177.42 177.44 177.44 177.44 177.44 177.44 177.44 177.69 177.69	APR 177.98 177.88 178.16 178.08 177.78 177.78 177.79	MAY	JUN	JUL	AUG	
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 30 30 30 30 30 30 30 30 30 30 30 30	OCT 172.16 172.22 172.21 172.24 172.50 172.36 172.32 172.39 172.40 172.55 172.70 172.71 172.70 172.71 173.08 173.34 173.33 173.18 173.43 173.43 173.43 173.43 173.43 173.31 173.14	NOV 172.93 172.98 173.04 173.02 172.83 172.94 173.09 173.09 173.09 173.09 173.09 172.95 172.98 173.00 172.88 173.00 172.88 173.10 173.15 173.13 173.10 173.13 173.11 173.11 173.12	DEC 173.26 173.39 173.52 173.43 173.64 174.05 174.12 174.16 174.16 174.16 174.44 174.44 174.44 174.52 174.76 174.76 174.86 175.10 175.13 175.21 175.22 175.35 175.40 175.40	JAN 175.94 175.80 176.22 176.28 176.30 176.33 176.35 176.44 176.47 176.41 176.71 176.61 176.48 177.05 177.04 177.05 177.24 177.21 177.52 177.52	77.74 177.74 177.79 177.92 177.94 177.93 177.98 177.84 178.14 178.04 177.61 177.50 177.62 177.48 177.44 177.40 177.45 177.45 177.45 177.45 177.45 177.45	MAR 177.78 177.78 177.88 177.99 178.23 178.37 178.52 178.52 178.37 178.29 178.23 178.03 178.03 178.03 178.03 178.03 178.03 177.86 177.42 177.37 177.41 177.44 177.32 177.28 177.69 177.69	APR 177.98 177.98 177.88 178.16 178.16 178.08 177.78 177.66 177.72	MAY	JUN	JUL	AUG	

SITE NUMBER 60—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

					D	AILY LOWE:	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4	 	 	169.50 169.46 169.61 169.60	171.48 171.32 171.03 170.87	172.58 172.78 172.78 172.78	173.13 173.08 173.35 173.54	172.84 172.91 172.72 172.32	170.57 170.59 170.50 170.12	164.80 164.76 164.72 164.63	162.17 162.33 162.47 162.48	163.15 162.89 162.67 162.59	161.52 161.60 161.56 161.52
5 6 7 8 9	 	 	169.73 169.61 169.76 170.02 169.97 169.86	170.86 171.01 170.99 170.83 170.81 170.72	172.74 172.66 172.52 172.55 172.57 172.78	173.71 173.65 173.61 173.76 173.77 173.46	171.82 172.10 172.29 172.33 172.32 172.49	169.71 169.39 168.88 168.84 168.72 168.33	164.39 164.27 164.12 163.91 163.81 163.67	162.50 162.47 162.53 162.57 162.52 162.52	162.42 162.12 161.89 161.47 161.44 161.41	161.55 161.53 161.56 161.70 161.72 161.67
11 12 13 14 15			169.83 170.05 170.05 170.07 170.37	170.99 171.36 171.49 171.48 171.31	172.81 172.90 172.88 172.98 173.12	173.43 173.21 173.21 173.22 173.02	172.50 172.40 172.32 172.24 172.41	168.19 168.00 167.68 167.69 167.67	163.37 163.14 162.96 162.78 162.52	162.63 162.72 162.84 162.94 162.95	161.25 161.14 160.99 160.78 160.74	161.65 161.86 161.97 162.03 162.05
16 17 18 19 20	 	169.78 169.84 169.82 169.64	170.37 170.37 170.71 170.82 170.86	171.96 172.02 172.03 172.12 172.08	173.26 173.18 173.10 173.15 173.11	172.69 172.93 173.06 172.80 172.67	172.36 172.05 171.72 171.59 171.55	167.50 167.38 167.43 167.43	162.39 162.51 162.41 162.11 162.07	163.06 163.14 163.39 163.53 163.51	160.93 160.98 160.83 160.90 160.91	162.14 162.15 162.36 162.64 162.69
21 22 23 24 25	 	169.83 169.78 169.63 169.92 169.91	170.73 171.06 171.19 171.45 171.48	171.99 172.06 172.20 172.19 172.48	172.72 172.70 172.83 172.90 172.93	172.60 172.53 172.42 172.44 172.46	171.63 171.63 171.62 171.48 171.46	167.20 167.16 167.14 167.02 166.89	162.05 161.95 161.96 162.02 162.06	163.45 163.32 163.14 163.12 163.15	160.84 160.84 160.85 160.85	162.63 162.74 162.82 162.71 162.62
26 27 28 29 30 31	 	169.88 169.86 169.81 169.55 169.49	171.45 171.45 171.26 171.51 171.47 171.59	172.48 172.61 172.77 172.68 172.74 172.55	172.73 172.69 172.95 	172.17 172.04 172.15 172.27 172.39 172.54	171.26 171.14 170.85 170.83 170.78	166.69 166.23 165.79 165.42 165.26 165.08	162.01 161.91 161.97 162.03 162.06	163.25 163.42 163.55 163.61 163.53 163.30	160.91 160.98 161.07 161.16 161.17	162.54 162.76 162.82 162.95 163.02
LOW		169.92	171.59	172.77	173.26	173.77	172.91	170.59	164.80	163.61	163.15	163.02
		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM	, WATER Y ST VALUES	EAR OCTOB	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW				EAR OCTOB	ER 1997 T JUN	O SEPTEMB	ER 1998	SEP
DAY 1 2 3 4 5					Dž	AILY LOWES	ST VALUES					SEP 161.38 161.40 161.50 161.77 161.96
1 2 3 4	OCT 163.03 163.03 163.27 163.32	NOV 165.12 165.23 165.23 165.39	DEC 168.28 168.47 168.47 168.71	JAN 170.51 170.82 170.97 170.77	FEB 172.35 172.56 172.55 172.49	MAR 173.13 173.14 173.07 173.18	APR 171.69 171.77 171.61	MAY 169.50 169.54 169.47 169.44	JUN 166.77 166.85 166.85 166.69	JUL 161.35 161.13 161.03 160.89	AUG 160.01 160.07 160.11 160.24	161.38 161.40 161.50 161.77
1 2 3 4 5 6 7 8	OCT 163.03 163.03 163.27 163.32 163.45 163.64 163.57 163.94 164.00	NOV 165.12 165.23 165.23 165.39 165.46 165.44 165.35 165.70 165.80	DEC 168.28 168.47 168.47 168.71 168.78 168.78 168.82 169.15	JAN 170.51 170.82 170.97 170.77 170.88 170.92 170.83 170.88 171.05	FEB 172.35 172.56 172.55 172.49 172.68 172.66 172.60 172.68 172.68	MAR 173.13 173.14 173.07 173.18 173.29 173.29 173.49 173.58 173.58	APR 171.69 171.77 171.61 171.28 171.13 170.89 170.81 170.76	MAY 169.50 169.54 169.47 169.43 169.43 169.44 169.40	JUN 166.77 166.85 166.85 166.69 166.67 166.59 166.48 166.29	JUL 161.35 161.13 161.03 160.89 160.68 160.52 160.43 160.28 160.28	AUG 160.01 160.07 160.11 160.24 160.32 160.31 160.34 160.37 160.49	161.38 161.40 161.50 161.77 161.96 162.24 162.36 162.49 162.61
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 163.03 163.03 163.27 163.32 163.45 163.64 163.57 163.94 164.00 163.90 163.62 163.94 164.12	NOV 165.12 165.23 165.23 165.39 165.46 165.44 165.35 165.70 165.80 165.74	DEC 168.28 168.47 168.47 168.71 168.78 168.72 168.82 169.15 169.43 169.52 169.52 169.57 169.57	JAN 170.51 170.82 170.97 170.77 170.88 170.92 170.83 170.83 171.05 171.13 171.26 171.26	72.35 172.35 172.56 172.55 172.49 172.68 172.66 172.60 172.68 172.87 172.91 172.94 172.94 172.91 172.91	MAR 173.13 173.14 173.07 173.18 173.29 173.29 173.49 173.62 173.62 173.93 173.71 173.71	APR 171.69 171.77 171.77 171.61 171.28 171.13 170.89 170.81 170.76 170.65 170.46 170.22 170.30 170.30	MAY 169.50 169.54 169.47 169.44 169.43 169.43 169.44 169.40 169.41 169.34 169.22 169.12 168.97 168.69	JUN 166.77 166.85 166.85 166.69 166.67 166.59 166.48 166.20 165.98 165.59	JUL 161.35 161.13 161.03 160.89 160.68 160.52 160.43 160.28 160.12 159.92 159.72 159.72 159.75 159.76	AUG 160.01 160.07 160.11 160.24 160.32 160.31 160.34 160.37 160.49 160.60 160.65 160.65 160.65 160.50	161.38 161.40 161.50 161.77 161.96 162.24 162.36 162.49 162.61 162.78 163.01 163.15 163.31 163.44
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	OCT 163.03 163.27 163.32 163.45 163.64 163.57 163.94 164.00 163.90 163.62 164.12 164.35 164.35 164.35	NOV 165.12 165.23 165.23 165.39 165.46 165.44 165.35 165.70 165.80 165.74 165.83 165.79 166.67 166.60 166.50	DEC 168.28 168.47 168.71 168.78 168.78 168.72 169.15 169.43 169.52 169.57 169.69 169.70 169.70 169.86 170.02	JAN 170.51 170.82 170.97 170.77 170.88 170.92 170.83 170.88 171.05 171.13 171.26 171.26 171.24 171.35 171.47 171.59	TFEB 172.35 172.56 172.55 172.49 172.68 172.66 172.68 172.91 172.94 172.94 172.94 172.94 172.94 172.95 172.87 172.87	MAR 173.13 173.14 173.07 173.18 173.29 173.29 173.49 173.62 173.93 173.61 173.71 173.71 173.71 173.71 173.61 173.32 172.81 172.76	APR 171.69 171.77 171.77 171.61 171.28 171.13 170.89 170.65 170.65 170.22 170.30 170.26 170.23 170.13 170.13 170.13 170.07	MAY 169.50 169.54 169.47 169.43 169.43 169.43 169.41 169.34 169.22 169.12 168.69 168.65	JUN 166.77 166.85 166.85 166.69 166.59 166.48 166.20 165.98 165.68 165.50 165.30 165.21 164.90 164.83 164.68	JUL 161.35 161.13 161.03 160.89 160.68 160.52 160.43 160.28 160.12 159.92 159.72 159.72 159.72 159.76 159.60 159.58 159.46 159.60	AUG 160.01 160.07 160.11 160.24 160.32 160.31 160.34 160.60 160.65 160.65 160.65 160.36 160.34	161.38 161.40 161.50 161.77 161.96 162.24 162.36 162.49 162.61 163.15 163.15 163.31 163.34 163.34 163.17 163.10 163.10
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 27 28 29 30 20 21 21 21 21 21 21 21 21 21 21 21 21 21	OCT 163.03 163.27 163.32 163.45 163.64 163.57 163.94 164.00 163.90 163.62 164.12 164.35 164.35 164.35 164.47 164.60 164.61 164.46 164.47 164.85 164.80 164.81	NOV 165.12 165.23 165.23 165.23 165.39 165.46 165.44 165.35 165.70 165.80 165.74 165.83 165.79 166.50 166.57 166.62 166.70 166.86 167.03 167.20 167.37 167.54 167.54 167.54 167.54 167.589	DEC 168.28 168.47 168.71 168.78 168.78 168.72 169.15 169.43 169.52 169.57 169.57 169.69 169.70 169.86 170.02 169.90 169.90 170.03 170.00 170.10 170.14	JAN 170.51 170.82 170.97 170.77 170.88 170.92 170.83 171.05 171.13 171.26 171.26 171.24 171.35 171.47 171.59 171.71 171.77 171.79 171.71 171.77 171.87 172.10 172.12 172.25 172.26 172.26 172.28	TEB 172.35 172.56 172.55 172.49 172.68 172.66 172.60 172.68 172.91 172.94 172.94 172.94 172.94 172.89 172.89 172.81 172.81 172.81 172.81 172.81 172.80 172.81	MAR 173.13 173.14 173.07 173.18 173.29 173.29 173.49 173.57 173.57 173.57 173.57 173.71 173.61 173.71 173.61 172.76 172.81 172.76 172.81 172.76 172.76 172.76 172.76 172.76 172.76 172.76 172.76 172.77 173.71 173.71 173.71	APR 171.69 171.77 171.77 171.61 171.28 171.13 170.89 170.65 170.65 170.46 170.22 170.30 170.26 170.23 170.13 170.13 170.13 170.10 170.08 170.07 170.10	MAY 169.50 169.54 169.47 169.44 169.43 169.43 169.41 169.34 169.41 169.34 169.12 168.97 168.69 168.44 168.50 168.36 168.22 168.13 168.02 167.29 167.29 167.29 167.29 167.99	JUN 166.77 166.85 166.85 166.69 166.67 166.59 166.20 165.98 165.68 165.50 165.30 165.21 164.90 164.83 164.68 164.68 164.68 164.68 165.69 163.37 163.01 162.65 162.44	JUL 161.35 161.13 161.03 160.89 160.68 160.52 160.43 160.28 160.12 159.72 159.72 159.72 159.72 159.75 159.48 159.46 159.60 159.59 159.55 159.48 159.49 159.67 159.75 159.81 159.88 159.93 160.02	AUG 160.01 160.07 160.11 160.24 160.32 160.31 160.34 160.60 160.65 160.65 160.65 160.50 160.34 160.50 160.88 160.95 160.91 160.72 160.72 160.75 160.73 160.95 160.72 160.75	161.38 161.40 161.50 161.77 161.96 162.24 162.36 162.49 162.61 163.15 163.31 163.44 163.34 163.10 163.54 163.10 163.54 163.10 163.24 163.29 163.49 163.29 163.49
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 163.03 163.27 163.32 163.45 163.64 163.57 163.94 164.00 163.90 163.92 164.35 164.35 164.35 164.47 164.60 164.46 164.47 164.85 164.85 164.81	NOV 165.12 165.23 165.23 165.39 165.46 165.44 165.35 165.70 165.80 165.74 165.83 165.79 166.62 166.50 166.57 166.62 167.03 167.20 167.37 167.54 167.54 167.589 167.88 167.93 168.06	DEC 168.28 168.47 168.47 168.71 168.78 168.72 169.15 169.43 169.52 169.57 169.69 169.70 169.70 169.70 169.70 169.70 169.70 169.90 170.02	JAN 170.51 170.82 170.97 170.77 170.88 170.92 170.83 171.05 171.13 171.26 171.26 171.26 171.27 171.79 171.53 171.71 171.77 171.79 171.87 172.10 172.13 172.25 172.25	TEB 172.35 172.56 172.55 172.49 172.68 172.68 172.68 172.91 172.94 172.94 172.94 172.95 172.87 172.88 172.86 172.81 172.81 172.81 172.81 172.81 172.81 172.81	MAR 173.13 173.14 173.07 173.18 173.29 173.49 173.58 173.62 173.93 173.11 173.61 173.61 173.61 173.29 172.81 173.61 173.29 172.81 173.71	APR 171.69 171.77 171.77 171.61 171.28 171.13 170.89 170.76 170.65 170.46 170.22 170.30 170.26 170.22 170.30 170.13 170.13 170.10 170.00 170.10 170.08 170.00 169.84 169.74	MAY 169.50 169.54 169.47 169.43 169.43 169.43 169.41 169.34 169.22 168.97 168.69 168.65 168.69 168.44 169.22 169.12 168.79 168.69 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70 168.70	JUN 166.77 166.85 166.85 166.69 166.67 166.59 166.20 165.98 165.68 165.50 165.30 165.21 164.90 164.83 164.68 164.39 163.81 163.59 163.37 162.65 162.44	JUL 161.35 161.13 161.03 160.89 160.68 160.52 160.43 160.28 160.12 159.92 159.72 159.72 159.75 159.46 159.60 159.59 159.47 159.59 159.47 159.59 159.66 159.67 159.75 159.88 159.88	AUG 160.01 160.07 160.11 160.24 160.32 160.37 160.49 160.65 160.65 160.50 160.34 160.51 160.51 160.50 160.51 160.51 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55 160.55	161.38 161.40 161.50 161.77 161.96 162.24 162.36 162.49 162.61 163.15 163.31 163.44 163.34 163.10 163.54 163.10 163.54 163.54 163.54 163.54 163.49 163.49 163.33 163.44 163.49

SITE NUMBER FROM LOCATION MAP.—61.

COUNTY.—Custer.

LOCAL WELL NUMBER.—4S6E1DAAA2.

SITE ID (STATION NUMBER).—434350103201902.

OTHER IDENTIFIERS.—CU-93B and CSP Airport Mnls.

LOCATION.—Lat 43°43′50.9″, long 103°20′20.2″, in NE¹/4NE¹/4NE¹/4SE¹/4 sec. 1, T. 4 S., R. 6 E., Hydrologic Unit 10120109, 0.6 mi east of Custer State Park airport. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 270 ft deep with 210 ft of 5-in. steel casing; open hole from 210 to 270 ft.

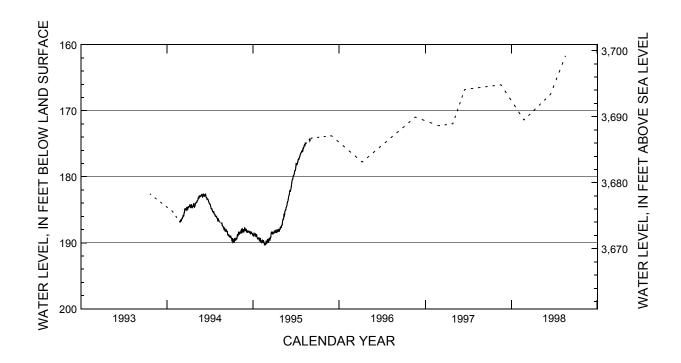
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,860.9 ft above sea level. Measuring point: Top of steel casing, 2.2 ft above land-surface datum.

REMARKS.—Records poor. Taped down measurements are good.

PERIOD OF RECORD.—August 1993 to September 1998.

EXTREMES.—Highest daily water level, 161.69 ft (estimated) below land-surface datum, Aug. 19, 1998; lowest daily water level, 190.34 ft below land-surface datum, Feb. 20, 1995.



SITE NUMBER 61—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

					D	ALLY LOWE	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189.30	188.34	187.94	188.81	189.37	190.01	188.28	187.65	183.04	178.70	175.93	
2	189.35	188.61	187.96	188.97	189.74	189.81	188.26	187.36	182.89	178.36	175.65	
3 4	189.75 189.79	188.67 188.56	188.03 188.36	188.99 189.00	189.89 189.73	189.47 189.59	188.48 188.47	187.34 187.34	182.74 182.63	177.94 178.06	175.70 175.63	
5	189.79	188.59	188.32	188.48	189.73	189.59	188.22	187.24	182.33	178.00	175.63	
5	109.33	100.39	100.32	100.40	109.73	109.39	100.22	107.24	102.33	1/0.1/	1/3.43	61/4.13
6	189.29	188.61	188.22	188.72	189.76	189.86	188.25	186.90	182.06	178.19	175.26	
7	189.81	188.45	188.32	188.82	189.90	189.89	188.16	186.66	182.25	178.14	175.18	
8	189.91	188.50	188.35	188.84	189.79	189.80	188.12	186.44	182.25	177.95	175.29	
9	189.80	188.50	188.37	188.84	189.64	189.42	188.43	186.48	182.06	177.90	175.32	
10	189.63	188.24	188.50	188.78	189.73	189.38	188.45	186.48	181.94	177.67	175.08	
	100 54	100 11	100 10	100 50	100 05	100 00	100 05	106.04	101 05	100.50	154 00	
11	189.54 189.83	188.11 188.06	188.19	188.73	189.85	189.33	188.35	186.24	181.85 181.50	177.53 177.35	174.93 175.01	
12 13	189.83	188.35	188.33 188.30	188.95 189.06	189.94 189.94	189.33 189.47	188.38 188.37	185.63 185.84	181.50	177.28	175.01	
14	189.63	188.53	188.26	189.04	189.65	189.55	188.00	185.91	180.93	177.36		
15	189.29	188.51	188.26	188.78	189.79	189.40	188.19	185.71	180.68	177.28		
	107.27	100.01	100.20	100.70	103.73	107.10	100.13	100.71	100.00	1,,,10		
16	189.58	187.90	188.32	188.82	190.05	189.21	188.31	185.29	180.53	177.22		
17	189.61	187.92	188.55	189.09	189.97	189.20	188.25	185.22	180.44	177.17		
18	189.58	188.29	188.40	189.24	190.33	188.91	188.12	185.08	180.36	176.97		
19	189.61	188.26	188.36	189.31	190.32	188.52	188.12	185.02	180.29	176.81		
20	189.50	187.95	188.47	189.41	190.34	188.55	187.93	185.02	179.99	176.76		
21	189.33	188.39	188.59	189.38	190.13	188.34	188.28	184.69	179.88	176.54		
22	189.36	188.40	188.71	189.32	190.13	188.57	188.28	184.64	179.81	176.50		
23	189.36	188.31	188.53	189.29	190.13	188.63	188.10	184.57	179.77	176.39		
24	189.39	188.07	188.34	189.42	190.18	188.36	188.00	184.39	179.69	176.33		
25	189.28	188.06	188.50	189.42	189.70	188.48	187.86	184.33	179.47	176.31		
26	188.97	187.69	188.50	189.23	189.82	188.51	187.92	184.01	179.32	176.20		
27	188.67	187.78	188.60	189.43	190.09	188.66	187.83	183.76	179.08	176.12		
28	188.83	188.11	188.60	189.73	190.09	188.66	187.65	183.77	179.07	176.22		
29	188.91	188.23	188.63	189.75		188.61	187.71	183.74	179.03	176.18	e174.29	
30 31	188.86 188.76	188.06	188.78 188.88	189.48 189.34		188.45 188.33	187.63	183.54 183.26	179.00	176.02 176.10	e174.61	
31	100.70		100.00	109.34		100.33		103.20		176.10		
LOW	189.91	188.67	188.88	189.75	190.34	190.01	188.48	187.65	183.04	178.70	175.93	174.15
		WATER LEV	יכי דאו כיכי	ET BELOW	T AND_CIIDI	ייים אייים אייים	M MATERIA W	TEND OCTOR	TED 100E T	O CEDERAL	PD 1006	
		WAIEK DEV	EL, IN FE	EI DELOW			ST VALUES	EAR OCTOR	EK 1995 1	O SEPIEME	SEK 1990	
DAY	OCT	NOV	DEC DEC	JAN				MAY	JUN	JUL	AUG	SEP
DAY 1	OCT				D	AILY LOWE	ST VALUES					SEP
1 2		NOV 	DEC	JAN 	D FEB 	AILY LOWE MAR 	ST VALUES APR	MAY 	JUN 	JUL 	AUG 	
1 2 3		NOV 	DEC	JAN 	D FEB 	AILY LOWE MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4	 	NOV	DEC	JAN 	FEB 	AILY LOWE MAR	APR	MAY 	JUN 	JUL 	AUG	
1 2 3		NOV 	DEC	JAN 	D FEB 	AILY LOWE MAR	APR	MAY 	JUN 	JUL 	AUG 	
1 2 3 4	 	NOV	DEC	JAN 	FEB 	AILY LOWE MAR	APR	MAY 	JUN 	JUL 	AUG	
1 2 3 4 5	 	NOV	DEC	JAN 	FEB	AILY LOWE	APR	MAY 	JUN	JUL 	AUG 	
1 2 3 4 5	 	NOV	DEC	JAN	FEB	AILY LOWE MAR	APR	MAY 	JUN	JUL 	AUG	
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	D FEB	MAR MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5	 	NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9		NOV	DEC	JAN	D FEB	MAR MAR	APR	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN	D FEB	MAR MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	=======================================	NOV	DEC	JAN		MAR MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10	=======================================	NOV	DEC	JAN	D FEB	MAR MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	==== ==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	==== ==== ==== ==== ====	NOV	DEC	JAN		MAR MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN	D FEB	MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NOV	DEC	JAN		MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	D FEB	MAR	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	D FEB	AILY LOWE	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	D FEB	AILY LOWE	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	D FEB	AILY LOWE	APR e177.78	MAY	JUN	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		NOV	DEC	JAN	D FEB	AILY LOWE	APR e177.78	MAY	JUN	JUL	AUG	
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		NOV	DEC	JAN	D FEB	AILY LOWE	APR	MAY	JUN	JUL	AUG	
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		NOV	DEC	JAN	D FEB	AILY LOWE	APR e177.78	MAY	JUN	JUL	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D FEB	MAR	APR e1777.78	MAY	JUN	JUL	AUG	
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 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D FEB	AILY LOWE	APR	MAY	JUN	JUL	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D FEB	MAR	APR e1777.78	MAY	JUN	JUL	AUG	
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 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	D FEB	AILY LOWE	APR	MAY	JUN	JUL	AUG	

e Estimated

SITE NUMBER 61—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ 2 ___ --5 ------------------___ ___ ___ ___ ___ ___ 8 ------------------------------------10 11 ___ ------------------------------------12 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------------------------------15 16 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ --------------------------------e166.8 17 19 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ --e170.97 ------------------------------20 21 22 ------------------------------------___ ------------------___ ---------___ ___ ___ ___ ------25 ------26 27 ------------___ ---------------------___ e172.27 ___ ___ ---___ ___ e171.99 ------------29 --30 31 170.97 172.27 171.99 LOW 166.80 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT DEC FEB APR JUN JUL AUG SEP NOV JAN MAR MAY ___ ___ ------___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ------------5 ---------------------6 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ --___ ___ ---___ ---___ 10 11 ------___ ------___ ___ ---___ ---___ 12 13 ___ ___ ___ ___ 14 15 ---------------------------------16 17 -----------------------------e167.52 18 ___ ___ ___ ___ ___ ___ ___ ___ ___ e166.08 -----------e161.69 ------------------20 21 ---------------------------------___ ___ ___ 23 ___ ___ ___ ___ ___ ___ ___ ___ e171.4 24 ------------------------------26 ------___ ___ ---___ ------___ ___ ---___ ---___ ___ 28 ---___ ------___ ------___ ___ ___ 29 ------30 ------------___ ___ ___ ------------___ ___ ___ ___ 31 ---LOW 166.08 171.40 ---167.52 161.69

e Estimated

SITE NUMBER FROM LOCATION MAP.—62.

COUNTY.—Custer.

LOCAL WELL NUMBER.—5S2E28BCCB.

SITE ID (STATION NUMBER).—433517103534201.

OTHER IDENTIFIERS.—CU-95A and Hell Canyon Mdsn.

LOCATION.—Lat 43°35′17.4″, long 103°53′42.3″, in NW¹/4SW¹/4SW¹/4NW¹/4 sec. 28, T. 5 S., R. 2 E., Hydrologic Unit 10120107, about 11 mi south of Jewel Cave. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,075 ft deep with 1,020 ft of 5-in. steel casing; open hole from 1,020 to 1,075 ft.

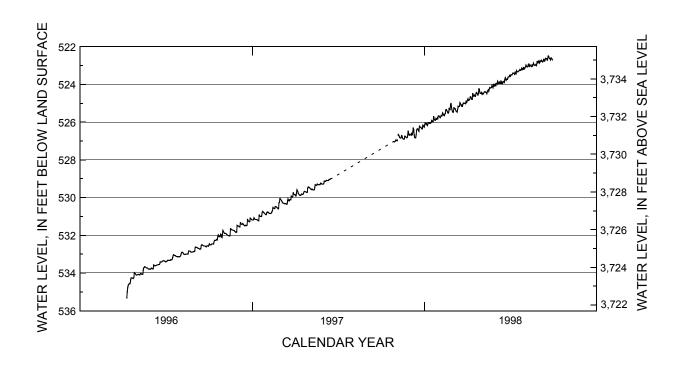
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 4,257.7 ft above sea level. Measuring point: Top of steel casing, 1.4 ft above land-surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—April 1996 to September 1998.

EXTREMES.—Highest daily water level, 522.49 ft below land-surface datum, Sept. 21, 1998; lowest daily water level, 535.35 ft below land-surface datum, Apr. 9, 1996.



		WATER LEV	EL, IN FE	ET BELOW			M, WATER Y ST VALUES	EAR OCTOE	BER 1995	TO SEPTEME	BER 1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								534.10	533.75	533.41	533.09	532.64
2								534.08	533.77	533.40	533.03	532.62
3 4								534.07 534.08	533.79 533.78	533.39 533.35	532.93 532.90	532.63 532.65
5								534.10	533.76	533.32	532.90	532.65
6								534.10	533.59	533.32	532.92	532.66
7								534.10	533.62	533.33	532.96	532.69
8								534.03	533.62	533.34	533.00	532.70
9 10							e535.35 534.98	534.03 534.06	533.61 533.60	533.34 533.34	533.02 533.01	532.70 532.72
11 12							534.77 534.64	534.07 534.07	533.59	533.29 533.30	533.01	532.74 532.74
13							534.61	534.07	533.57 533.57	533.30	533.00 533.00	532.74
14							534.57	533.83	533.57	533.29	533.00	532.53
15							534.57	533.72	533.55	533.22	533.00	532.50
16							534.57	533.71	533.55	533.13	533.00	532.50
17							534.40	533.67	533.55	533.03	533.00	532.53
18							534.26	533.68	533.50	533.05	532.84	532.55
19 20							534.26 534.26	533.69 533.71	533.41 533.42	533.06 533.08	532.83 532.84	532.56 532.57
20							331.20	333.71	333.12	333.00	332.01	332.37
21							534.28	533.73	533.42	533.08	532.84	532.57
22 23							534.28 534.29	533.74 533.74	533.42 533.37	533.11 533.12	532.87 532.89	532.57 532.60
24							534.23	533.74	533.37	533.12	532.90	532.61
25							533.98	533.79	533.36	533.14	532.90	532.61
26							534.00	533.80	533.36	533.13	532.89	532.56
27							534.03	533.78	533.36	533.14	532.89	532.56
28							534.08	533.79	533.36	533.14	532.86	532.57
29							534.11	533.80	533.39	533.14	532.86	532.58
30 31							534.11	533.79 533.74	533.41	533.14 533.13	532.87 532.85	532.53
LOW							535.35	534.10	533.79	533.41	533.09	532.74
		WATER LEV	EL, IN FE	ET BELOW			M, WATER Y	EAR OCTOE	BER 1996	TO SEPTEME	BER 1997	
DAY	OCT	WATER LEV	EL, IN FE	ET BELOW				EAR OCTOE	BER 1996 :	TO SEPTEME JUL	BER 1997	SEP
	OCT	NOV	DEC	JAN	Di FEB	AILY LOWE	ST VALUES	MAY	JUN	JUL	AUG	
DAY 1 2					Di	AILY LOWE	ST VALUES					SEP
1 2 3	OCT 532.45 532.50 532.51	NOV 531.85 531.89 531.90	DEC 531.50 531.51 531.54	JAN 531.19 531.18 531.18	FEB 530.76 530.78 530.78	MAR 530.09 530.12 530.14	APR 529.85 529.91 529.92	MAY 529.46 529.48 529.52	JUN 529.25 529.12 529.14	JUL 	AUG 	
1 2 3 4	OCT 532.45 532.50 532.51 532.51	NOV 531.85 531.89 531.90 531.90	DEC 531.50 531.51 531.54 531.56	JAN 531.19 531.18 531.18 531.07	FEB 530.76 530.78 530.78 530.82	MAR 530.09 530.12 530.14 530.20	APR 529.85 529.91 529.92 529.77	MAY 529.46 529.48 529.52 529.54	JUN 529.25 529.12 529.14 529.15	JUL 	AUG 	
1 2 3	OCT 532.45 532.50 532.51	NOV 531.85 531.89 531.90	DEC 531.50 531.51 531.54	JAN 531.19 531.18 531.18	FEB 530.76 530.78 530.78	MAR 530.09 530.12 530.14	APR 529.85 529.91 529.92	MAY 529.46 529.48 529.52	JUN 529.25 529.12 529.14	JUL 	AUG 	
1 2 3 4 5	OCT 532.45 532.50 532.51 532.51 532.50 532.46	NOV 531.85 531.89 531.90 531.90 531.90	DEC 531.50 531.51 531.54 531.56 531.31	JAN 531.19 531.18 531.18 531.07 531.11	FEB 530.76 530.78 530.78 530.82 530.83	MAR 530.09 530.12 530.14 530.20 530.25	APR 529.85 529.91 529.92 529.77 529.59 529.64	MAY 529.46 529.48 529.52 529.54 529.56	JUN 529.25 529.12 529.14 529.15 529.09	JUL 	AUG 	
1 2 3 4 5	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46	NOV 531.85 531.89 531.90 531.90 531.90	DEC 531.50 531.51 531.54 531.56 531.56	JAN 531.19 531.18 531.18 531.07 531.11 531.16 531.17	FEB 530.76 530.78 530.82 530.83 530.84 530.85	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30	APR 529.85 529.91 529.77 529.59 529.64 529.71	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.55	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09	JUL 	AUG	
1 2 3 4 5	OCT 532.45 532.50 532.51 532.50 532.46 532.46 532.46	NOV 531.85 531.89 531.90 531.90 531.93 531.93 531.95 531.99	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17	FEB 530.76 530.78 530.78 530.82 530.83 530.84 530.84 530.85 530.84	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30	APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80	MAY 529.46 529.48 529.52 529.54 529.56 529.55 529.58	JUN 529.25 529.12 529.14 529.15 529.09 529.09 529.09	JUL	AUG	
1 2 3 4 5	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46	NOV 531.85 531.89 531.90 531.90 531.90	DEC 531.50 531.51 531.54 531.56 531.56	JAN 531.19 531.18 531.18 531.07 531.11 531.16 531.17	FEB 530.76 530.78 530.82 530.83 530.84 530.85	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30	APR 529.85 529.91 529.77 529.59 529.64 529.71	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.55	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09	JUL 	AUG	
1 2 3 4 5 6 7 8 9	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.46 532.47	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 531.99 532.00 532.01	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17	530.76 530.78 530.78 530.82 530.83 530.84 530.84 530.83 530.83	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.30 530.33	APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.09 529.10 529.10	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 531.95 532.00 532.01	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.38	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17	530.76 530.78 530.82 530.83 530.84 530.84 530.83 530.84 530.83 530.82	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60 529.59	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10	JUL	AUG	==== ==== ==== ====
1 2 3 4 5 6 7 8 9	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.46 532.47	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 531.99 532.00 532.01	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.17	530.76 530.78 530.78 530.82 530.83 530.84 530.84 530.83 530.83	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.30 530.33	APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.09 529.10 529.10	JUL	AUG	=======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.27 532.28 532.28	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.04	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.44	JAN 531.19 531.18 531.17 531.11 531.17 531.17 531.17 531.17 531.17 531.23 531.23	530.76 530.78 530.78 530.82 530.83 530.84 530.84 530.83 530.82 530.72 530.71 530.52	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.89 529.89	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60 529.60 529.43 529.32	JUN 529.25 529.12 529.14 529.15 529.09 529.09 529.09 529.10 529.10 529.10 529.04 529.04	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.42	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.17	FEB 530.76 530.78 530.82 530.83 530.84 530.84 530.83 530.82 530.71 530.71 530.52	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.85	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60 529.60	JUN 529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.10 529.04 529.04	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14	OCT 532.45 532.50 532.51 532.51 532.46 532.46 532.46 532.47 532.35 532.27 532.28 532.27	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.04	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.44	JAN 531.19 531.18 531.17 531.11 531.17 531.17 531.17 531.17 531.17 531.23 531.23	530.76 530.78 530.78 530.82 530.83 530.84 530.84 530.83 530.82 530.72 530.71 530.52 530.55 530.57	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.88 529.88 529.88 529.88 529.88 529.89 529.81	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.58 529.60 529.60 529.60 529.43 529.32	JUN 529.25 529.12 529.14 529.15 529.09 529.09 529.09 529.10 529.10 529.10 529.04 529.04	JUL	AUG	==== ==== ==== ==== ====
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.03 531.65	DEC 531.50 531.51 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.44 531.44 531.47	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.23 530.91 530.97 531.00	530.76 530.78 530.82 530.83 530.84 530.85 530.84 530.85 530.84 530.85 530.71 530.52 530.71 530.52 530.55 530.55	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.89 529.89 529.89 529.89 529.89 529.89 529.89	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.55 529.60 529.60 529.60 529.32 529.34 529.34	JUN 529.25 529.12 529.14 529.15 529.09 529.09 529.09 529.10 529.10 529.10 529.04 529.04 529.04 529.04 529.04 529.04 529.04 529.04	JUL	AUG	======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.28 532.28 532.28 532.28 532.28	NOV 531.85 531.89 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.03 531.65 531.67 531.70 531.70	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50	JAN 531.19 531.18 531.18 531.17 531.11 531.17 531.17 531.17 531.17 531.17 531.21 531.23 530.91 530.97 531.00 531.00	FEB 530.76 530.78 530.78 530.82 530.83 530.84 530.85 530.71 530.52 530.56 530.59 530.59 530.47	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.80 529.82 529.85 529.85 529.88 529.88 529.88 529.88 529.88 529.88 529.88 529.88 529.88	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.35 529.34	JUN 529.25 529.14 529.15 529.15 529.09 529.09 529.00 529.10 529.04 529.04 529.01 529.00 529.00	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.03 531.65	DEC 531.50 531.51 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.44 531.44 531.47	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.23 530.91 530.97 531.00	530.76 530.78 530.82 530.83 530.84 530.85 530.84 530.85 530.84 530.85 530.71 530.52 530.71 530.52 530.55 530.55	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33 530.33	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.89 529.89 529.89 529.89 529.89 529.89 529.89	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.55 529.60 529.60 529.60 529.32 529.34 529.34	JUN 529.25 529.12 529.14 529.15 529.09 529.09 529.09 529.10 529.10 529.10 529.04 529.04 529.04 529.04 529.04 529.04 529.04 529.04	JUL	AUG	======================================
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 532.45 532.50 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.28 532.28 532.28 532.28 532.28 532.29 532.28 532.29	NOV 531.85 531.89 531.90 531.90 531.95 531.95 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.72	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.49 531.49 531.48	JAN 531.19 531.18 531.18 531.17 531.11 531.17 531.17 531.17 531.17 531.21 531.23 530.97 530.97 531.00 531.00 531.00 531.00	FEB 530.76 530.78 530.82 530.83 530.84 530.85 530.72 530.72 530.56 530.57 530.59 530.47 530.48 530.49	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33 530.36 530.36 530.18 530.18	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.85 529.88 529.89 529.84 529.81 529.83 529.83 529.83 529.77 529.69	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.39 529.34 529.32 529.34	JUN 529.25 529.14 529.15 529.15 529.09 529.09 529.00 529.10 529.04 529.04 529.01 529.00 529.00	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.29 532.29 532.29 532.29 532.29	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.72 531.72	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.42 531.44 531.44 531.48 531.50	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 531.23 530.91 530.97 531.00 531.00 531.00 530.81	530.76 530.78 530.82 530.84 530.82 530.84 530.82 530.71 530.52 530.52 530.57 530.59 530.59 530.47 530.49 530.49	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.33 530.33 530.33 530.36 530.36 530.36 530.18 530.18	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.80 529.82 529.85 529.88 529.89 529.81 529.81 529.83 529.84 529.81 529.83 529.89 529.84 529.89	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.30 529.32 529.34 529.35 529.35 529.35 529.35	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.04	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT 532.45 532.50 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.28 532.28 532.28 532.28 532.28 532.29 532.28 532.29	NOV 531.85 531.89 531.90 531.90 531.95 531.95 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.72	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.49 531.49 531.48	JAN 531.19 531.18 531.18 531.17 531.11 531.17 531.17 531.17 531.17 531.21 531.23 530.97 530.97 531.00 531.00 531.00 531.00	FEB 530.76 530.78 530.82 530.83 530.84 530.85 530.72 530.72 530.56 530.57 530.59 530.47 530.48 530.49	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33 530.36 530.36 530.18 530.18	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.85 529.88 529.89 529.84 529.81 529.83 529.83 529.83 529.77 529.69	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.39 529.34 529.32 529.34	JUN 529.25 529.14 529.15 529.15 529.09 529.09 529.00 529.10 529.04 529.04 529.01 529.00 529.00	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.24 532.27 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.20 532.24 532.20 532.20 532.20 532.20 532.20 532.20 532.20 532.20 532.20 532.20	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.72 531.72 531.75 531.75 531.75	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.44 531.48 531.50 531.50 531.50 531.50 531.61 531.47 531.49 531.49 531.49 531.49 531.49 531.24 531.24 531.24	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 531.23 530.91 530.97 531.00 531.00 531.01 531.00 531.01 530.73 530.73 530.75	FEB 530.76 530.78 530.82 530.84 530.83 530.82 530.71 530.52 530.56 530.57 530.59 530.47 530.48 530.49 530.51 530.53 530.57 530.59 530.60	MAR 530.09 530.12 530.14 530.20 530.25 530.30 530.30 530.33 530.33 530.33 530.36 530.36 530.36 530.18 530.18 530.18 530.11 530.11 530.11 530.11	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.80 529.85 529.85 529.88 529.89 529.81 529.81 529.83 529.84 529.81 529.83 529.84 529.89 529.86 529.89 529.86 529.87 529.69	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.32 529.34 529.35 529.32 529.32 529.32 529.32	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.01 529.00 529.00 529.00	JUL	AUG	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.27 532.28 532.28 532.27 532.28 532.29 532.29 532.20 532.20 532.20 532.20 532.20 532.20 532.20	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.99 532.00 532.01 532.02 532.03 531.65 531.67 531.72 531.72 531.72 531.75 531.75 531.75	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50 531.47 531.49 531.49 531.49 531.49 531.49 531.49 531.49 531.49	JAN 531.19 531.18 531.18 531.17 531.17 531.17 531.17 531.17 531.17 531.21 531.23 530.91 530.97 531.00 531.00 531.00 531.01 531.00 531.01 530.81 530.73 530.73	FEB 530.76 530.78 530.82 530.83 530.84 530.84 530.83 530.72 530.72 530.56 530.57 530.59 530.47 530.48 530.49 530.51 530.53 530.57	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.33 530.33 530.36 530.18 530.18 530.18 530.11 530.11	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.80 529.82 529.85 529.88 529.89 529.84 529.81 529.83 529.83 529.83 529.83 529.67 529.68 529.66	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.35 529.34 529.32 529.32 529.32	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.00 529.00	JUL	AUG	
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	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.24 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.20 532.24 532.29 532.24 532.29 532.24 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.308 531.99	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.72 531.72 531.75 531.75 531.75	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.44 531.48 531.50 531.50 531.50 531.50 531.50 531.60 531.47 531.49 531.49 531.49 531.24 531.28	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 531.23 530.91 530.97 531.00 531.00 531.01 531.00 531.01 530.73 530.73 530.75	FEB 530.76 530.78 530.82 530.84 530.83 530.82 530.71 530.52 530.56 530.57 530.59 530.47 530.48 530.49 530.51 530.53 530.57 530.59 530.60	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.33 530.33 530.33 530.36 530.36 530.11 530.18 530.18 530.18 530.11 530.19 530.11 530.19 530.19 530.19	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.80 529.85 529.85 529.89 529.89 529.81 529.81 529.83 529.81 529.83 529.84 529.81 529.83 529.84 529.81 529.83 529.77 529.69	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.32 529.34 529.35 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.01 529.00 529.00 529.00	JUL	AUG	
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	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.28 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.03 531.65 531.67 531.70 531.72 531.72 531.75 531.75 531.75 531.75 531.75 531.75 531.78	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50 531.47 531.49 531.49 531.49 531.24 531.24 531.24 531.24 531.27	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 530.91 530.97 531.00 531.00 531.00 531.01 531.00 530.78 530.78 530.78 530.81	530.76 530.78 530.78 530.82 530.83 530.84 530.83 530.82 530.72 530.52 530.57 530.59 530.47 530.59 530.47 530.59 530.47 530.60 530.60 530.60	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.32 530.33 530.32 530.31 530.32 530.36 530.18 530.18 530.18 530.18 530.18 530.19 530.19 530.19 530.19	ST VALUES APR 529.85 529.91 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.89 529.89 529.81 529.83 529.84 529.81 529.83 529.67 529.69 529.67 529.69 529.70 529.72 529.73 529.73	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.59 529.60 529.60 529.32 529.34 529.35 529.35 529.35 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.00 529.00 529.00	JUL	AUG	
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	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.27 532.28 532.28 532.27 532.28 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.21 532.21	NOV 531.85 531.89 531.90 531.90 531.90 531.99 532.00 532.01 532.02 532.03 532.04 532.03 531.65 531.67 531.72 531.72 531.75 531.75 531.75 531.75 531.75 531.84	DEC 531.50 531.51 531.54 531.56 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.44 531.44 531.44 531.49 531.49 531.49 531.49 531.49 531.28 531.17	JAN 531.19 531.18 531.18 531.17 531.17 531.17 531.17 531.17 531.17 531.17 531.17 531.00 531.00 531.00 531.00 531.00 531.01 530.81 530.73 530.75 530.78 530.81 530.82 530.82	530.76 530.78 530.82 530.83 530.84 530.85 530.84 530.85 530.82 530.72 530.71 530.52 530.57 530.59 530.47 530.59 530.59 530.59 530.60	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.33 530.36 530.36 530.11 530.18 530.18 530.18 530.11 530.18 530.19 530.19 530.19 530.19 530.19 530.19 530.19 530.10	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.80 529.82 529.85 529.88 529.89 529.84 529.81 529.83 529.84 529.83 529.77 529.69 529.67 529.68 529.67 529.67 529.68 529.73 529.73 529.73	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.34 529.32 529.34 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.00 529.00	JUL	AUG	
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	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.28 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29 532.29	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 532.04 532.03 531.65 531.67 531.70 531.72 531.72 531.75 531.75 531.75 531.75 531.75 531.75 531.78	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50 531.47 531.49 531.49 531.49 531.24 531.24 531.24 531.24 531.27	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 530.91 530.97 531.00 531.00 531.00 531.01 531.00 530.78 530.78 530.78 530.81	530.76 530.78 530.78 530.82 530.83 530.84 530.83 530.82 530.72 530.52 530.57 530.59 530.47 530.59 530.47 530.59 530.47 530.60 530.60 530.60	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.32 530.33 530.32 530.33 530.32 530.31 530.32 530.36 530.18 530.18 530.18 530.18 530.18 530.19 530.19 530.19 530.19	ST VALUES APR 529.85 529.91 529.77 529.59 529.64 529.71 529.80 529.82 529.85 529.88 529.89 529.89 529.81 529.83 529.84 529.81 529.83 529.67 529.69 529.67 529.69 529.70 529.72 529.73 529.73	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.59 529.60 529.60 529.32 529.34 529.35 529.35 529.35 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.12 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.00 529.00 529.00	JUL	AUG	
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.29 532.24 532.29 532.208 531.99	NOV 531.85 531.89 531.90 531.90 531.95 531.95 531.95 531.95 532.01 532.02 532.03 531.65 531.65 531.70 531.72 531.72 531.72 531.75 531.75 531.75 531.75 531.75 531.84 531.84 531.84 531.84	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50 531.50 531.50 531.50 531.24 531.49 531.49 531.49 531.24 531.28 531.11 531.15	JAN 531.19 531.18 531.18 531.17 531.16 531.17 531.17 531.17 531.17 531.21 531.23 531.23 531.23 531.00 531.00 531.01 530.73 530.73 530.73 530.73 530.81 530.82 530.89 530.89 530.89	FEB 530.76 530.78 530.82 530.84 530.82 530.71 530.52 530.56 530.57 530.59 530.47 530.59 530.59 530.60 530.57	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.30 530.33 530.33 530.36 530.36 530.36 530.11 530.18 530.18 530.18 530.11 530.18 530.11 530.12 529.93 529.97	ST VALUES APR 529.85 529.91 529.92 529.77 529.59 529.64 529.85 529.85 529.85 529.89 529.81 529.81 529.83 529.81 529.83 529.84 529.81 529.83 529.77 529.69 529.69 529.72 529.73 529.73 529.48	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.32 529.34 529.35 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.01 529.01 529.00 529.00 529.00 529.00 529.00	JUL	AUG	
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 27 28 29 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	OCT 532.45 532.50 532.51 532.51 532.50 532.46 532.46 532.47 532.35 532.27 532.28 532.27 532.28 532.27 532.28 532.29 532.12 532.29 532.24 532.25 532.08 531.99	NOV 531.85 531.89 531.90 531.90 531.90 531.95 531.95 531.95 532.00 532.01 532.02 532.03 531.65 531.67 531.70 531.72 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75 531.75	DEC 531.50 531.51 531.54 531.56 531.31 531.38 531.42 531.42 531.42 531.44 531.48 531.50 531.50 531.50 531.47 531.49 531.49 531.49 531.24 531.24 531.28 531.28 531.28	JAN 531.19 531.18 531.07 531.11 531.16 531.17 531.17 531.17 531.17 531.21 531.23 530.91 530.97 531.00 531.00 531.01 530.73 530.75 530.75 530.78 530.81 530.82 530.89 530.91 530.91	530.76 530.78 530.82 530.83 530.84 530.83 530.82 530.72 530.52 530.57 530.59 530.59 530.47 530.59 530.59 530.60 530.57	MAR 530.09 530.12 530.14 530.20 530.25 530.29 530.30 530.33 530.33 530.33 530.33 530.36 530.36 530.14 530.18 530.18 530.18 530.18 530.18 530.19 530.18 530.18 530.18 530.18 530.18 530.18 530.18 530.18 530.18 530.18	ST VALUES APR 529.85 529.91 529.77 529.59 529.80 529.82 529.85 529.88 529.89 529.89 529.81 529.81 529.83 529.84 529.83 529.84 529.83 529.87 529.69 529.67 529.69 529.70 529.72 529.73 529.73 529.48 529.44 529.46	MAY 529.46 529.48 529.52 529.54 529.56 529.58 529.60 529.60 529.60 529.32 529.34 529.35 529.35 529.35 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32 529.32	529.25 529.14 529.15 529.15 529.09 529.09 529.10 529.10 529.04 529.04 529.04 529.00 529.00 529.00	JUL	AUG	

SITE NUMBER 62—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		526.94	526.65	526.17	525.68	525.44	524.89	524.47	524.09	523.57	523.18	522.81
2		526.97	526.66	526.05	525.73	525.48	524.82	524.43	523.97	523.58	523.11	522.86
3		526.99	526.69	526.08	525.77	525.47	524.76	524.52	523.94	523.49	523.07	522.75
4		526.99	526.61	526.11	525.73	525.21	524.85	524.48	523.98	523.49	522.98	522.79
5			526.68	526.08	525.65	525.28	524.84	524.52	523.84	523.50	523.05	522.77
6		e526.66	526.66	526.17	525.68	525.30	524.82	524.48	523.90	523.47	523.07	522.72
7		526.69	526.50	526.19	525.67	525.29	524.79	524.42	523.96	523.40	523.08	522.77
8		526.75	526.29	526.04	525.51	525.37	524.65	524.40	523.93	523.41	523.05	522.81
9		526.82	526.42	526.02	525.55	525.43	524.66	524.38	523.88	523.41	522.95	522.80
10		526.84	526.71	526.06	525.63	525.43	524.74	524.41	524.00	523.40	523.03	522.72
11		526.85	526.82	526.06	525.65	525.47	524.80	524.43	523.92	523.46	523.05	522.67
12		526.84	526.84	526.06	525.66	525.35	524.80	524.42	523.79	523.37	522.95	522.77
13		526.69	526.83	526.07	525.56	525.16	524.47	524.49	523.98	523.44	523.00	522.76
14		526.76	526.68	526.03	525.54	525.19	524.60	524.40	523.85	523.45	523.03	522.66
15		526.84	526.42	526.03	525.34	525.17	524.63	524.33	523.96	523.27	523.04	522.61
16		526.88	526.36	525.91	525.33	525.16	524.56	524.29	523.91	523.33	523.06	522.65
17		526.90	526.36	525.93	525.38	524.97	524.60	524.36	523.84	523.32	522.94	522.64
18		526.91	526.36	526.00	525.44	525.01	524.63	524.25	523.85	523.34	523.03	522.72
19		526.90	526.45	526.00	525.51	525.09	524.63	524.17	523.89	523.30	522.99	522.68
20		526.74	526.49	525.68	525.53	525.14	524.46	524.20	523.74	523.29	522.88	522.50
21		526.75	526.22	525.82	525.48	525.10	524.43	524.20	523.65	523.27	522.95	522.49
22		526.79	526.25	525.85	525.25	525.19	524.48	524.17	523.73	523.21	522.96	522.59
23		526.82	526.27	525.91	525.34	525.07	524.51	524.16	523.78	523.26	523.00	522.62
24		526.83	526.27	525.90	525.35	524.99	524.59	524.05	523.72	523.26	522.98	522.65
25		526.82	526.32	525.81	525.05	525.01	524.47	524.12	523.74	523.22	522.94	522.70
26		526.72	526.37	525.86	524.99	525.00	524.23	524.18	523.74	523.15	523.00	522.59
27	527.03	526.45	526.37	525.86	525.21	525.00	524.25	524.08	523.62	523.21	522.91	522.60
28	527.05	526.57	526.16	525.77	525.37	525.02	524.43	523.97	523.62	523.15	522.76	522.66
29	527.05	526.68	526.18	525.81		525.03	524.48	524.08	523.61	523.18	522.86	522.70
30	527.02	526.70	526.24	525.67		524.86	524.48	524.07	523.52	523.08	522.86	522.68
31	527.01		526.27	525.68		524.99		524.00		523.19	522.77	
LOW	527.05	526.99	526.84	526.19	525.77	525.48	524.89	524.52	524.09	523.58	523.18	522.86

e Estimated

SITE NUMBER FROM LOCATION MAP.—63.

COUNTY.—Custer.

LOCAL WELL NUMBER.—5S2E28BCCB2.

SITE ID (STATION NUMBER).—433517103534202.

OTHER IDENTIFIERS.—CU-95B and Hell Canyon Mnls.

LOCATION.—Lat 43°35′17.4″, long 103°53′42.3″, in NW¹/4SW¹/4SW¹/4NW¹/4 sec. 28, T. 5 S., R. 2 E., Hydrologic Unit 10120107, about 11 mi south of Jewel Cave. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 642 ft deep with 575 ft of 5-in. steel casing; open hole from 575 to 642 ft.

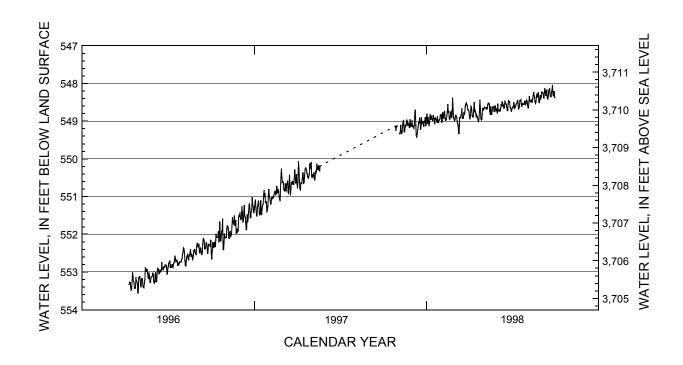
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 4,258.7 ft above sea level. Measuring point: Top of steel casing, 1.2 ft above land-surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—April 1996 to September 1998.

EXTREMES.—Highest daily water level, 548.04 ft below land-surface datum, Sept. 25, 1998; lowest daily water level, 553.56 ft below land-surface datum, Apr. 28-29, 1996.



551.27

551.44

551 37

551.88

551.27

550.99

550 80

551.53

551.48

552.11

29

30

31

LOW

551.98

552.10

552 10

552.67

SITE NUMBER 63—Continued WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITI. ATIG SEP 553.16 553.25 552.89 552.53 552.23 ___ ___ 2 ___ ___ ___ ___ ___ 553.11 553.31 552 84 552.48 552 27 ------------------553.21 553.27 552.76 552.36 552.33 553.05 ___ 553.36 552.73 552.38 552.35 ___ ___ ___ ___ ___ ___ ___ 5 553 41 553 01 552 70 552 47 552 25 6 553.18 553.26 552.89 552.69 552.49 ___ ___ ___ 7 ---------___ 553.18 553.26 552.84 552.83 552.49 553.18 553.11 552.88 552.84 552.35 8 ___ ___ 553.34 553.38 552.91 552.87 552.71 552.38 10 ------------------553.32 553.41 552.93 552.79 552.59 552.51 11 ___ ___ ___ 553 27 553.42 552 92 552 85 552 56 552 55 ------552.88 552.77 12 ------------553.28 553.28 553.06 552.52 552.47 553.40 553.20 553.03 552.65 552.25 13 14 ___ ___ ___ ___ ___ ___ 553.48 552 88 552.94 552 76 552 69 552 10 ---------------15 ---553.46 552.98 552.99 552.70 552.58 552.13 16 ___ ___ ___ ___ ___ ___ 553 25 552.97 552 96 552 57 552 56 552 17 ------------------552.96 552.74 17 553.01 552.93 552.65 552.49 552.39 553.12 552.93 552.73 552.40 552.39 18 19 ___ ___ ___ ___ ___ ___ 553 26 553.02 552.93 552 72 552 60 552 36 ---------------2.0 ---553.27 553.16 552.93 552.69 552.52 552.21 21 ___ ___ ___ ___ ___ ___ 553 44 553 17 552 94 552 74 552 56 552 25 22 ------------------553.01 552.87 552.84 552.67 553.44 552.29 553.42 552.88 552.75 552.65 553.13 552.52 552.47 ___ ___ ------------553.14 553.28 552.88 552.82 552.56 ------------------552.42 25 553.24 553.28 552.81 552.77 552.27 552.47 26 ___ ------------553 26 553.14 552.82 552.73 552.27 ___ ___ ___ ___ ---27 ---553.29 553.14 552.82 552.74 552.39 552.27 ___ ___ ___ ---553.56 553.13 552.87 552.73 552.50 552.30 28 553.11 553.02 29 ___ ---------------553 56 553.06 552.74 552.53 552.33 ---552.54 ___ ___ 552.67 553.15 30 553.05 552.15 553.07 552.64 552.32 31 LOW 553.56 553.42 553.31 552.89 552.84 552.55 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES OCT DEC JUN JUL SEP DAY NOV JAN FEB MAR APR MAY AUG 552.49 552.07 551.42 551.29 550.98 550.63 550.66 550.09 ------------550.78 552.67 552.08 551.60 551.12 551.03 550.59 550.45 552.45 551.86 551.61 551.10 551.11 550.65 550.61 550.51 ------4 552.22 551 78 551.58 551 34 551 20 550 81 550.06 550 44 ___ ___ ___ ___ 550.26 5 551.79 551.26 551.49 551.18 550.85 550.47 551 83 551 53 551 04 550 85 550 58 550 39 ___ ___ 6 552 35 551 44 ___ ___ 552.34 551.69 550.80 552.10 551.28 551.06 550.65 550.36 ___ ____ 8 552.20 552.11 551.63 551.22 551.01 550.78 550.82 550.56 ------9 552.33 551.95 551.40 551.11 551.01 550.86 550.64 550.56 ___ ---------552.33 551.91 551.23 551.20 551.03 550.67 550.65 550.32 10 552.06 551.46 550.94 550.65 550.40 11 551.98 551.53 550.67 ___ ---------552.08 551.54 551.50 550.92 550.58 550.57 550.32 552.04 12 13 552.09 551.99 551.68 551.45 550.84 550.89 550.39 550.13 ------------551.88 551.10 550.91 550.36 ___ ------14 552.07 551.78 550.91 550.26 ---15 552.07 551.55 551.88 551.45 550.96 550.67 550.65 550.28 551.68 551.49 550.92 550.64 550.20 16 551.92 551.47 550.42 ___ ---___ 550.77 17 552.21 551.72 551.68 551.31 550.72 550.45 550.17 18 552.17 551.67 551.59 551.22 550.90 550.97 550.79 550.29 550.31 ___ ___ ___ ___ 551.66 551.42 551.21 550.90 550.23 19 551.50 550.32 20 551.24 550.82 550.64 550.19 550.85 21 552.19 551.77 551.18 550.83 550.66 550.28 ------------550.39 ---22 551.62 551.32 551.02 550.62 ---------23 551.92 551.98 551.56 550.91 551.05 550.59 550.40 ___ ___ ___ ___ ___ 551.91 551.56 551.16 551.13 550.68 550.50 24 551.97 ---550.83 ___ 25 550.68 26 552.41 551.93 551.35 550.46 550.53 550.46 551.13 ------552.41 ---27 551.91 551.02 551.42 550.26 550.28 550.41 ___ ___ ___ ---------___ 28 552 22 551.54 551.23 551 35 550.50 550 43 550.12

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550.63

550 41

550.97

551.20

550.23

550.25

550.82

550.56

SITE NUMBER 63—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			548.97	548.86	548.81	548.99	548.75	548.66	548.54	548.67	548.44	548.37
2			549.14	548.80	549.04	548.97	548.92	548.70	548.73	548.63	548.46	548.23
3			549.13	549.07	549.01	548.87	548.95	548.66	548.73	548.65	548.56	548.23
4			549.17	548.89	548.77	548.83	548.84	548.63	548.70	548.64	548.65	548.25
5		549.35	549.20	549.01	548.91	548.89	548.61	548.64	548.74	548.50	548.65	548.26
6		549.29	549.08	549.13	548.92	548.89	548.63	548.64	548.73	548.58	548.50	548.38
7		549.10	548.76	549.04	548.78	549.01	548.75	548.67	548.67	548.66	548.34	548.39
8		549.31	548.70	548.81	548.73	549.07	548.87	548.65	548.55	548.63	548.45	548.22
9		549.33	549.11	548.95	548.91	549.13	548.89	548.68	548.61	548.60	548.49	548.13
10		549.28	549.39	548.95	549.01	549.33	548.89	548.66	548.49	548.55	548.48	548.22
11		549.11	549.42	548.85	548.94	549.33	548.69	548.55	548.50	548.53	548.45	548.33
12		549.02	549.34	548.96	548.95	548.89	548.50	548.52	548.60	548.51	548.50	548.25
13		548.97	549.25	548.92	548.84	548.92	548.74	548.52	548.58	548.44	548.50	548.16
14		549.28	549.15	549.01	548.75	548.92	548.72	548.55	548.66	548.53	548.39	548.38
15		549.28	549.04	548.84	548.55	548.83	548.78	548.74	548.65	548.68	548.32	548.41
16		549.23	549.05	548.89	548.76	548.81	548.87	548.83	548.46	548.67	548.23	548.34
17		549.09	548.91	548.93	548.75	548.66	548.84	548.61	548.53	548.58	548.32	548.22
18		549.13	548.99	549.08	548.93	548.93	548.89	548.76	548.55	548.45	548.36	548.15
19		549.08	549.23	548.94	548.95	548.93	548.89	548.83	548.55	548.46	548.50	548.14
20		548.96	549.16	548.92	548.89	548.92	548.99	548.73	548.63	548.43	548.53	548.29
21		549.01	548.89	548.96	548.76	548.77	549.01	548.62	548.72	548.56	548.48	548.36
22		549.11	549.09	548.96	548.75	548.84	548.94	548.62	548.72	548.62	548.35	548.36
23		549.10	549.01	549.04	548.90	548.76	548.74	548.62	548.55	548.55	548.27	548.24
24		549.07	549.02	548.87	548.89	548.61	548.43	548.74	548.46	548.53	548.36	548.17
25		549.16	549.06	549.04	548.38	548.55	548.69	548.74	548.48	548.56	548.36	548.04
0.5		E40 15	540.15	F40 04	540.66	540 50	5.40.00	540 50	540.40	540.56	540.00	540.00
26		549.17	549.15	549.04	548.66	548.52	548.92	548.58	548.48	548.56	548.23	548.28
27	549.13	548.95	548.99	548.97	548.89	548.57	548.97	548.61	548.60	548.56	548.48	548.34
28	549.26	549.08	549.04	548.97	548.94	548.57	548.96	548.73	548.66	548.47	548.52	548.22
29	549.14	549.14	548.89	548.95		548.68	548.83	548.70	548.69	548.47	548.46	548.22
30 31	549.12	549.13	549.13 549.09	548.83 548.86		548.71 548.70	548.66	548.66 548.80	548.75	548.56 548.54	548.31 548.42	548.39
31			349.09	340.86		340.70		340.80		340.54	340.42	
LOW	549.26	549.35	549.42	549.13	549.04	549.33	549.01	548.83	548.75	548.68	548.65	548.41

SITE NUMBER FROM LOCATION MAP.—C2.

COUNTY.—Custer.

LOCAL NUMBER.—6S5E12DBAB.

SITE ID (STATION NUMBER).—433302103281501.

OTHER IDENTIFIER.—Windy City Lake.

LOCATION.—Lat 43°32′57″, long 103°28′27″, in NW¹/4NE¹/4NW¹/4SE¹/4 sec. 12, T. 6 S., R. 5 E., Hydrologic Unit 10120109, at Wind Cave National Park near Hot Springs. Owner: National Park Service.

AQUIFER.—Madison.

SITE CHARACTERISTICS.—Pool of water, approximately 450 ft below land surface in Wind Cave, called Windy City Lake.

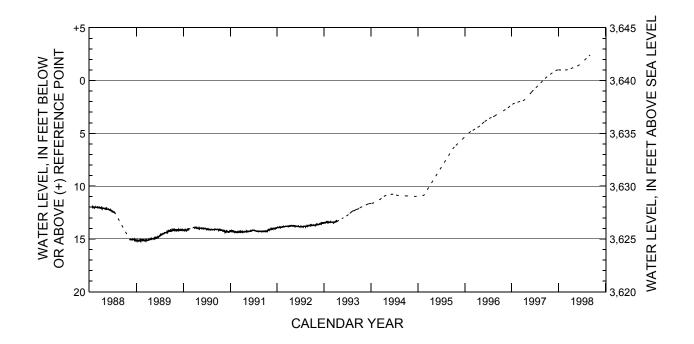
INSTRUMENTATION.—Electronic data logger with pressure transducer until June 12, 1996.

DATUM.—Elevation of land surface is about 4,094 ft above sea level at visitor center. Measuring point: Staff gage with 0.0 being 12.84 ft below a brass cap reference point with elevation of about 3,640 ft above sea level. Calcite gage with "0" being 13.00 ft below brass cap reference point.

REMARKS.—Records good. Trip reports indicate that Calcite Lake and Windy City Lake were visibly merged by the Feb. 8, 1996, trip, but they may have been connected by Nov. 1, 1995.

PERIOD OF RECORD.—January 1988 to September 1998.

EXTREMES.—Highest daily water level, 2.42 ft (estimated) above reference point, Sept. 3, 1998; lowest daily water level, 15.24 ft below reference point, Mar. 14, 1989.



SITE NUMBER C2—Continued

WATER LEVEL, IN FEET BELOW OR ABOVE (+) REFERENCE POINT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
10												
11												
12			e10.98									
13												
14												
15												
16					e10.88							
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
LOW			10.98		10.88							

WATER LEVEL, IN FEET BELOW OR ABOVE (+) REFERENCE POINT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		e6.06										
2												
3												
4												
5	e6.38											
-												
6												
7												
8					e4.90							
9												
10												
11												
12						e4.66			e3.82			
13												
14												
15												
16												
17												
18										e3.54		
19							e4.38				e3.38	
20												
21												
22								e4.02				
23												
24												
25												
26												
27												
28												
29											e3.30	
30												
31												
LOW	6.38	6.06			4.90	4.66	4.38	4.02	3.82	3.54	3.38	

e Estimated

SITE NUMBER C2—Continued

WATER LEVEL, IN FEET BELOW OR ABOVE (+) REFERENCE POINT, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

					_							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4		e2.82										
5												
6												
7												
8							e1.86					
9												
10			e2.52									
11									e1.00			
12												
13												
14				e2.19								
15										e.60		
16												
17												
18												
19												
20												
21											e.15	
22												
23												
24												
25					e2.02							e+.28
26												
27												
28												
29								e1.20				
30												
31												
31												
LOW		2.82	2.52	2.19	2.02		1.86	1.20	1.00	.60	.15	+.28

WATER LEVEL, IN FEET BELOW OR ABOVE (+) REFERENCE POINT, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3						e+1.00						e+2.42
4												
5		e+.65							e+1.42			
6												
7												
8												
9												
10				e+1.01								
11												
12												
13												
14												
15							e+1.17					
16												
17			e+.98									
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29										e+2.01		
30												
31												
LOW		+.65	+.98	+1.01		+1.00	+1.17		+1.42	+2.01		+2.42

e Estimated

SITE NUMBER FROM LOCATION MAP.—64.

COUNTY.—Custer.

LOCAL WELL NUMBER.—6S6E21BBBB.

SITE ID (STATION NUMBER).—433115103251401.

OTHER IDENTIFIERS.—CU-91A and 7-11 Ranch Mdsn.

LOCATION.—Lat 43°31′15.4″, long 103°25′16.1″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 21, T. 6 S., R. 6 E., Hydrologic Unit 10120109, 5 mi northeast of Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,165 ft deep with 1,135 ft of 5-in. steel casing; open hole from 1,135 to 1,165 ft.

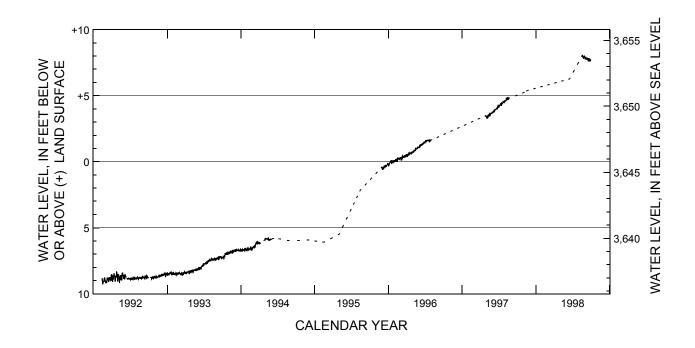
INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,645.8 ft above sea level. Measuring point: Top of steel casing, 1.7 ft above land-surface datum. Base of gage 2.3 ft above land-surface datum since Apr. 28, 1997.

REMARKS.—Current records fair. Records prior to June 17, 1992, poor because of unexplained fluctuations in water level that may be a result of instrumentation problems. Data is corrected for antifreeze density difference.

PERIOD OF RECORD.—February 1992 to September 1998.

EXTREMES.—Highest daily water level, 8.05 ft above land-surface datum, Aug. 19, 1998; lowest daily water level, 9.28 ft below land-surface datum, Feb. 16, 1992.



SITE NUMBER 64—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2								e5.50				
3												
4												
5												
3												
6												
7												
8												
9												
10												
11												
12												
13	e5.97											
14												
15					e6.10						e2.16	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28									e3.68			
29		e5.93										
30												
31												
LOW	5.97	5.93			6.10			5.50	3.68		2.16	

WATER LEVEL, IN FEET BELOW OR ABOVE (+) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			. 49	.27	.03	+.33	+.57	+.76	+1.08	+1.51		
2			.51	.22	+.02	+.21	+.50	+.76	+1.07	+1.52		
3			.58	.16	+.02	+.30	+.41	+.71	+1.11	+1.53		
4			.59	.28	+.09	+.30	+.40	+.71	+1.19	+1.59		
5			.58	.24	+.11	+.21	+.45	+.72	+1.15	+1.59		
6			. 46	.18	+.18	+.16	+.54	+.84	+1.13	+1.53		
7			.44	.12	+.13	+.14	+.55	+.85	+1.15	+1.56		
8			.58	.08	+.14	+.23	+.56	+.84	+1.21	+1.54		
9			.52	.06	+.11	+.33	+.57	+.80	+1.27	+1.57		
10			.44	.06	+.01	+.40	+.68	+.80	+1.25	+1.64		
11			. 36	.06	+.10	+.42	+.54	+.82	+1.25	+1.58		
12			.32	.00	+.16	+.45	+.58	+.86	+1.24	+1.58		
13			.35	+.07	+.22	+.32	+.52	+.89	+1.29	+1.62		
14			.40	.04	+.11	+.37	+.55	+.96	+1.31	+1.63		
15			.37	+.07	+.07	+.42	+.59	+.92	+1.29	+1.63		
16			.35	+.10	+.21	+.36	+.68	+.96	+1.32	+1.62		
17			.43	.16	+.15	+.36	+.66	+.98	+1.33	+1.62		
18			.37	.11	+.30	+.33	+.63	+.98	+1.39	+1.60		
19			.29	.02	+.20	+.32	+.61	+.96	+1.30	+1.62		
20			.31	+.02	+.20	+.37	+.63	+.96	+1.34	+1.63		
21			.40	.05	+.23	+.40	+.62	+.97	+1.35	+1.59		
22			.35	.04	+.20	+.45	+.63	+1.06	+1.41	+1.54		
23			.30	+.07	+.20	+.45	+.69	+1.01	+1.41	+1.57		
24			.29	+.04	+.28	+.33	+.74	+1.00	+1.39	+1.54		
25			.28	+.02	+.24	+.38	+.65	+1.02	+1.47	+1.62		
26			. 24	+.08	+.28	+.47	+.69	+1.08	+1.47	+1.60		
27			.24	+.07	+.16	+.47	+.73	+1.05	+1.48	+1.62		
28			.16	.03	+.15	+.50	+.63	+1.06	+1.46	+1.60		
29			.16	.00	+.30	+.46	+.71	+1.08	+1.39	+1.62		
30		e.41	.10	+.03		+.43	+.74	+1.10	+1.45	+1.63		
31			. 23	+.10		+.48		+1.11				
LOW		.41	.59	.28	.03	+.14	+.40	+.71	+1.07	+1.51		

e Estimated

SITE NUMBER 64—Continued

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP +4.18 +4.59 ___ ___ ___ ___ ___ ___ +3.31 ___ 2 ___ +3.72 +4.14 +4.61 +3.72 ------------+4.16 ---+4.61 ---+3.76 ___ 5 ___ ---___ ---___ ---+3.37 +3.85 +4.23 +4.61 ___ +3.43 +3.82 +4.28 +4.63 +3.86 +3.79 +3.78 ---------------------+3.42 +4.30 +4.29 +4.66 +4.85 ---8 +4.35 +4.68 ---------------------10 ---+3.55 +3.82 +4.41 +4.68 11 +3.46 +3.95 +4.41 +4 77 ------------------+4.40 ---12 ---+3.51 +3.89 +4.75 +3.55 +3.91 +4.79 13 ---------15 ---------------+3.43 +3.95 +4.38 +4.81 ---------+3.60 +3.94 +4.46 ___ ___ ___ ___ ___ ___ ___ +3.62 +3.48 +3.94 +3.97 +4.44 +4.43 ___ 17 +4 71 18 +4.83 19 ---------------+3.48 +4.02 +4.41 ___ ___ ___ ___ ___ 20 ___ +3.56 +4.04 +4.44 +4.80 ___ +3.61 +4.05 +4.44 ___ ___ ___ ___ ------___ ---___ 22 +3.64 +4.06 +4.50 23 +3.64 +4.06 +4.56 ------------+3.69 +4.09 +4.56 ___ ___ ---------25 +3.69 +4.02 +4.55 26 27 +3.65 +4.05 +4 55 ---------------------___ +3.65 +4.16 +4.49 +4.23 28 +3.49 +3.69 +4.47 29 ___ ___ ___ ___ ___ ___ +3.43 +3.71 +4.21 +4.50 ___ ___ ------------------+3.70------30 +3.40 +4.23 +4.59 +3.78 31 +4.61 ---+3.40+3.72 +4.14 +4.59 LOW ---------+3.31 ---WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUL AUG SEP JAN +7.87 2 ---___ ---___ ---------------___ ---+7.76 +7.83 ___ ___ ---___ ------___ ------___ ------+7.80 ---------___ ___ ___ ___ ____ ---+7.82 5 6 7 ___ ---___ ------___ ------___ ------+7.86 ___ ---___ ---___ ---___ ------___ +7.79 ___ +7.76 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ +7.76 +7.81 10 11 ___ ___ ___ ___ ___ ___ ___ ___ ___ ---___ +7.84 ------------------------+7.77 +7.77 ---------12 14 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ +7.85 ---------------------------------+7.81 15 +7.74 16 ___ ___ ___ ___ ___ ___ ___ ___ ---___ ------------+7.72 ---------17 -----e+6.27---+8.03 +7.61 +7.66 ___ ___ 19 ___ ___ ___ ___ ___ ___ ___ +8 05 -----e+5.39 ---------------+7.81 20 ---+8.03 21 22 ---___ ------___ ------___ ---+7.95 +7.75 ---------------------------+7.93 ---23 +7.88 +7.73 2.4 ------------------------------+7.92 +7.69 25 +7.59 +7.91 2.6 ------------------------------+7.89 +7.68 27 +7.99 +7.73 +7.70 +7.67 +8.00 29 ------------------------------+7.93 +7.92 30 +7.72 31 e+5.23 +7.95 LOW +5.39 +6.27 +7.88 +7.59 +5.23

e Estimated

SITE NUMBER FROM LOCATION MAP.—65.

COUNTY.—Custer.

LOCAL WELL NUMBER.—6S6E21BBBB2.

SITE ID (STATION NUMBER).—433115103251402.

OTHER IDENTIFIERS.—CU-91B and 7-11 Ranch Mnls.

LOCATION.—Lat 43°31′15.4″, long 103°25′16.1″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 21, T. 6 S., R. 6 E., Hydrologic Unit 10120109, 5 mi northeast of Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 480 ft deep with 443 ft of 5-in. steel casing; open hole from 443 to 480 ft.

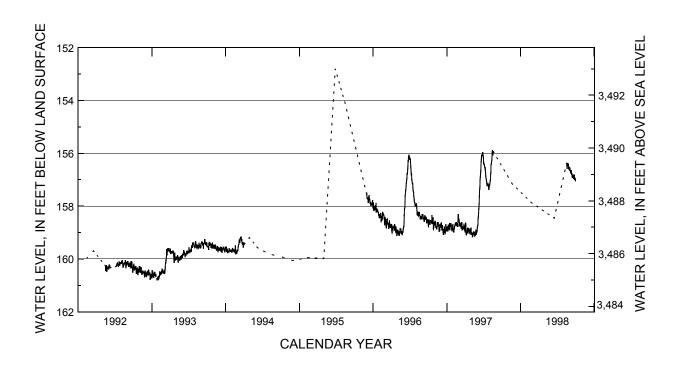
INSTRUMENTATION.—Electronic data logger with pressure transducer -- 60-minute interval. Digital water-level recorder with 60-minute interval prior to June 8, 1992.

DATUM.—Elevation of land-surface datum is 3,645.8 ft above sea level. Measuring point: Top of steel casing, 1.70 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—February 1992 to September 1998.

EXTREMES.—Highest daily water level, 152.80 ft (estimated) below land-surface datum, June 28, 1995; lowest daily water level, 160.81 ft below land-surface datum, Jan. 31, 1993.



WATER	LEVEL,	IN	FEET	BELOW	LAND-	SURFACE	DATUM,	WATER	YEAR	OCTOBER	1994	TO	SEPTEMBER	1995
						DAILY	LOWEST	VALUE	S					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-												
1												
2								e159.99				
3												
4												
5												
_												
6												
7												
8												
9												
10												
11												
12												
13	e159.94											
14												
15					e159.95						e154.08	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
23												
26												
27												
28									e152.80			
29		e160.06										
30												
31												
JΙ												
LOW	159.94	160.06			159.95			159.99	152.80		154.08	

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			157.52	158.09	158.44	158.41	158.79	158.91	158.80	156.17	157.95	158.31
2			157.65	158.07	158.44	158.51	158.68	158.91	158.75	156.20	157.96	158.35
3			157.72	157.86	158.44	158.47	158.92	158.96	158.63	156.24	157.90	158.36
4			157.68	158.15	158.42	158.51	159.02	159.04	158.35	156.21	157.95	158.38
5			157.73	158.17	158.36	158.66	159.02	159.06	158.11	156.34	158.05	158.30
6			157.73	158.17	158.30	158.74	158.87	158.97	158.09	156.51	158.19	158.51
7			157.73	158.15	158.29	158.84	158.77	158.96	158.05	156.60	158.32	158.48
8			157.86	158.05	158.32	158.82	158.82	158.97	157.86	156.72	158.36	158.42
9			157.86	158.07	158.31	158.66	158.82	159.08	157.61	156.82	158.29	158.45
10			157.79	158.07	158.61	158.55	158.74	159.12	157.48	156.81	158.21	158.55
11			157.67	158.09	158.57	158.51	158.83	159.09	157.39	156.99	158.24	158.60
12			157.61	158.07	158.54	158.50	158.77	159.05	157.35	157.05	158.22	158.55
13			157.59	157.97	158.37	158.68	158.85	159.00	157.26	157.08	158.36	158.43
14			157.76	158.15	158.44	158.68	158.90	158.83	157.12	157.14	158.37	158.35
15			157.76	158.09	158.54	158.66	158.89	158.90	157.10	157.16	158.32	158.37
16			157.75	157.88	158.49	158.63	158.81	158.87	157.01	157.14	158.30	158.41
17			157.91	158.23	158.36	158.70	158.68	158.87	156.96	157.31	158.30	158.50
18			157.88	158.23	158.24	158.82	158.74	158.87	156.78	157.39	158.22	158.50
19			157.86	158.12	158.25	158.84	158.83	158.94	156.79	157.46	158.34	158.50
20			157.84	158.09	158.34	158.84	158.83	159.03	156.74	157.48	158.37	158.41
21			157.98	158.19	158.34	158.72	158.94	159.04	156.58	157.63	158.38	158.45
22			157.98	158.23	158.29	158.68	158.97	158.95	156.47	157.69	158.49	158.49
23			157.95	158.13	158.35	158.54	158.94	159.01	156.29	157.72	158.49	158.65
24			157.93	158.16	158.36	158.79	158.77	159.10	156.30	157.82	158.43	158.61
25			157.95	158.19	158.49	158.80	158.90	159.08	156.13	157.84	158.38	158.51
26			157.95	158.23	158.47	158.73	158.94	159.00	156.10	157.86	158.47	158.53
27			157.97	158.24	158.68	158.76	158.96	158.96	156.07	157.92	158.38	158.53
28			157.86	158.24	158.70	158.72	159.13	159.01	156.05	157.99	158.47	158.56
29			157.84	158.36	158.64	158.71	159.10	158.99	156.20	157.98	158.48	158.62
30		157.53	157.77	158.34		158.83	158.91	158.88	156.19	158.00	158.46	158.50
31			157.95	158.31		158.81		158.80		157.99	158.36	
LOW		157.53	157.98	158.36	158.70	158.84	159.13	159.12	158.80	158.00	158.49	158.65

e Estimated

SITE NUMBER 65—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

			•		Di	AILY LOWES	ST VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158.68	158.69	158.66	158.85	158.83	158.53	158.96	158.82	158.80	156.17	157.22	
2	158.80	158.72	158.77	158.81	158.85	158.47	159.00	159.04	158.79	156.31	157.16	
3	158.66	158.58	158.80	158.77	158.91	158.58	158.92	159.08	158.75	156.42	157.11	
4	158.55	158.58	158.79	158.89	159.00	158.72	158.63	159.04	158.70	156.40	157.06	
5	158.54	158.61	158.62	158.96	158.97	158.76	158.72	159.08	158.51	156.44	156.99	
6	158.68	158.63	158.76	158.94	158.89	158.74	158.95	159.02	158.41	156.42	156.79	
7	158.64	158.81	158.92	158.81	158.87	158.63 158.74	159.08	159.02	158.29 158.10	156.51	156.72	
8 9	158.61 158.70	158.82 158.79	158.90 158.79	158.77 158.70	158.81 158.74	158.75	159.11 159.00	159.16 159.15	158.10	156.55 156.58	156.41 156.40	
10	158.70	158.80	158.72	158.77	158.77	158.68	159.00	159.01	157.93	156.57	156.43	
11	158.53	158.87	158.89	158.87	158.68	158.70	158.97	159.08	157.63	156.66	156.29	
12	158.61	158.87	158.91	158.89	158.66	158.67	158.93	159.03	157.45	156.74	156.26	
13	158.61	158.84	158.96	158.87	158.63	158.83	158.85	158.96	157.33	156.87	156.15	
14	158.61	158.74	159.06	158.64	158.66	158.85	158.86	159.05	157.26	156.95	155.96	
15	158.61	158.61	159.09	158.86	158.74	158.74	159.04	159.06	157.01	156.97	155.88	
16	158.53	158.64	158.88	158.87	158.70	158.61	159.03	159.01	156.89	156.99	156.02	
17	158.64	158.70	159.02	158.76	158.61	158.84	158.94	158.97	156.77	157.07	156.08	
18	158.65	158.70	158.96	158.79	158.74	158.92	158.85	159.11	156.66	157.15	155.93	
19	158.34	158.61	158.87	158.76	158.72	158.83	158.84	159.13	156.48	157.24	155.93	
20	158.55	158.77	158.77	158.66	158.66	158.77	158.85	159.11	156.32	157.17	155.95	
21	158.67	158.75	158.85	158.66	158.68	158.83	158.87	159.04	156.21	157.20		
22	158.63	158.70	158.91	158.72	158.77	158.83	158.96	159.07	156.11	157.18		
23	158.57	158.96	159.04	158.72	158.77	158.83	158.96	159.08	156.05	157.16		
24	158.57	158.96	159.02	158.89	158.77	158.87	159.02	159.01	156.08	157.15		
25	158.43	158.91	158.96	158.90	158.57	158.87	159.04	158.89	156.09	157.18		
26	158.87	158.93	158.94	158.86	158.41	158.77	159.05	159.00	156.08	157.22		
27	158.88	158.93	158.69	158.96	158.30	158.66	158.96	159.08	155.95	157.31		
28	158.79	158.70	158.89	158.91	158.44	158.74	158.85	159.04	156.00	157.39		
29	158.61	158.69	158.90	158.89		158.88	158.89	158.97	156.05	157.33		
30 31	158.70	158.72	158.94	158.75		158.87	158.89	159.00	156.09	157.26 157.20		
31	158.74		158.93	158.68		158.74		158.94		157.20		
LOW	158.88	158.96	159.09	158.96	159.00	158.92	159.11	159.16	158.80	157.39	157.22	
					Di	AILY LOWES						-
DAY	OCT	WATER LEV	VEL, IN FE	ET BELOW JAN				EAR OCTOR	3ER 1997 1	TO SEPTEME JUL	BER 1998 AUG	SEP
1		NOV	DEC	JAN	Di FEB 	AILY LOWE: MAR	ST VALUES APR	MAY	JUN	JUL 	AUG	156.64
1 2		NOV 	DEC	JAN 	D2 FEB 	AILY LOWE: MAR 	APR	MAY 	JUN 	JUL 	AUG	156.64 156.54
1 2 3		NOV 	DEC 	JAN 	D2 FEB 	AILY LOWE: MAR	APR	MAY 	JUN 	JUL 	AUG 	156.64 156.54 156.58
1 2		NOV 	DEC	JAN 	D2 FEB 	AILY LOWE: MAR 	APR	MAY 	JUN 	JUL 	AUG	156.64 156.54
1 2 3 4 5	 	NOV	DEC	JAN 	D2 FEB 	AILY LOWES	APR	MAY 	JUN 	JUL 	AUG	156.64 156.54 156.58 156.65 156.68
1 2 3 4 5		NOV	DEC	JAN	Di FEB 	MAR	APR	MAY 	JUN	JUL 	AUG	156.64 156.54 156.58 156.65 156.68
1 2 3 4 5	 	NOV	DEC	JAN 	D2 FEB 	AILY LOWES	APR	MAY 	JUN 	JUL 	AUG	156.64 156.54 156.58 156.65 156.68
1 2 3 4 5	=======================================	NOV	DEC	JAN	Di FEB 	MAR	APR	MAY	JUN	JUL 	AUG	156.64 156.54 156.58 156.65 156.68 156.74 156.68 156.68
1 2 3 4 5	 	NOV	DEC	JAN	Di FEB 	MAR	APR	MAY	JUN	JUL 	AUG	156.64 156.54 156.58 156.65 156.68 156.74 156.76 156.68
1 2 3 4 5 6 7 8 9	 	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.58 156.65 156.68 156.74 156.76 156.68 156.64
1 2 3 4 5 6 7 8 9 10	 	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.54 156.58 156.65 156.68 156.74 156.76 156.68 156.64
1 2 3 4 5 6 7 8 9	==== ==== ==== ==== ====	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.58 156.65 156.68 156.74 156.76 156.68 156.64
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.54 156.58 156.65 156.68 156.74 156.76 156.68 156.64 156.68
1 2 3 4 5 6 7 8 9 10	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.58 156.65 156.65 156.65 156.68 156.64 156.68 156.81 156.81 156.77
1 2 3 4 5 6 7 8 9 10 11 12 13 14	==== ==== ==== ==== ==== ====	NOV	DEC	JAN	Di	MAR	APR	MAY	JUN	JUL	AUG	156.64 156.58 156.65 156.68 156.76 156.68 156.64 156.68 156.77 156.77
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	==== ==== ==== ==== ==== ==== ==== ====	NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN	JUL	AUG	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.68 156.81 156.77 156.77 156.88 156.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	Di	MAR	APR	MAY	JUN	JUL	AUG 156.36	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.64 156.81 156.77 156.77 156.83 156.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.68 156.77 156.87 156.90 156.84 156.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	Di	MAR	APR	MAY	JUN	JUL	AUG 156.36	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.64 156.81 156.77 156.77 156.83 156.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	======================================	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.68 156.77 156.87 156.90 156.84 156.83
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN e158.46	JUL	AUG 156.36 156.59 156.47	156.64 156.58 156.65 156.68 156.74 156.68 156.64 156.77 156.81 156.77 156.88 156.93 156.93
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN e158.46	JUL	AUG 156.36 156.50 156.47 156.40	156.64 156.58 156.65 156.68 156.68 156.64 156.68 156.68 156.81 156.77 156.77 156.81 156.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	======================================	NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36 156.50 156.47 156.40 156.38	156.64 156.58 156.65 156.65 156.68 156.74 156.76 156.68 156.81 156.77 156.84 156.83 156.85 156.89 156.89 156.90 156.90 156.90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN e158.46	JUL	AUG 156.36 156.50 156.47 156.40	156.64 156.58 156.65 156.68 156.68 156.68 156.64 156.68 156.81 156.77 156.77 156.81 156.93
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		NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36 156.50 156.40 156.42 156.45	156.64 156.58 156.65 156.65 156.68 156.74 156.76 156.68 156.81 156.93 156.93 156.85 156.85 156.85 156.85
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 25 26 27		NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN	JUL.	AUG 156.36 156.59 156.47 156.40 156.38 156.42 156.45	156.64 156.58 156.65 156.68 156.76 156.68 156.64 156.68 156.77 156.87 156.93 156.93 156.85 156.85 156.85 156.85 156.85
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 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN e158.46	JUL	AUG 156.36 156.50 156.47 156.40 156.38 156.42 156.45	156.64 156.58 156.65 156.68 156.68 156.68 156.68 156.68 156.81 156.77 156.77 156.81 156.93 156.93 156.85 156.85 156.85
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36 156.50 156.59 156.47 156.40 156.38 156.42 156.545	156.64 156.58 156.65 156.65 156.68 156.74 156.76 156.68 156.67 156.81 156.93 156.90 156.85 156.85 156.85 156.85 156.85
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 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30		NOV	DEC	JAN	Di FEB	AILY LOWE: MAR	APR	MAY	JUN	JUL.	AUG	156.64 156.58 156.65 156.68 156.76 156.68 156.64 156.68 156.77 156.87 156.93 156.93 156.93 156.85 156.85 156.81 156.83 156.85 156.85 156.85 156.85
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20		NOV	DEC	JAN	Di FEB	MAR	APR	MAY	JUN	JUL	AUG 156.36 156.50 156.59 156.47 156.40 156.38 156.42 156.545	156.64 156.58 156.65 156.65 156.68 156.76 156.68 156.64 156.77 156.77 156.81 156.93 156.90 156.85 156.85 156.85 156.85

e Estimated

SITE NUMBER FROM LOCATION MAP.—66.

COUNTY.—Custer.

LOCAL WELL NUMBER.—6S 6E21BBBB3.

SITE ID (STATION NUMBER).—433115103251403.

OTHER IDENTIFIER.—CU-96A and 7-11 Ranch Mnkt.

LOCATION.—Lat 43°31′15.3″, long 103°25′16.2″, in NW¹/4NW¹/4NW¹/4NW¹/4 sec. 21, T. 6 S., R. 6 E., Hydrologic Unit 10120109, 5 mi northeast of Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnekahta.

WELL CHARACTERISTICS.—Drilled observation well, 281 ft deep with 245 ft of 5-in. steel casing; open hole from 245 to 281 ft.

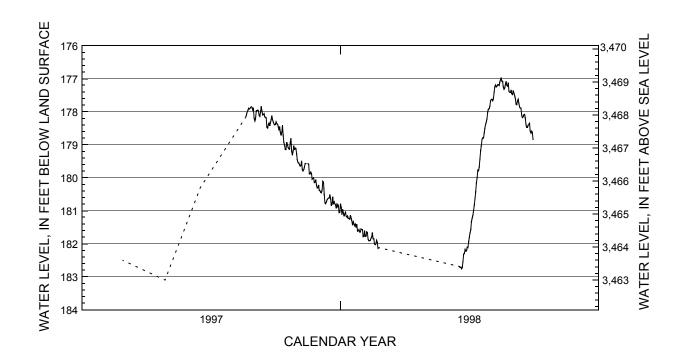
INSTRUMENTATION.—Electronic data logger with submersible pressure transducer -- 60-minute interval.

DATUM.—Elevation of land-surface datum is 3,646.1 ft above sea level. Measuring point: Top of steel casing, 1.4 ft above land-surface datum.

REMARKS.—Records good.

PERIOD OF RECORD.—February 1997 to September 1998.

EXTREMES.—Highest daily water level, 176.97 ft below land-surface datum, Aug. 16, 1998; lowest daily water level, 183.1 ft below land-surface datum, Apr. 28, 1997.



SITE NUMBER 66—Continued WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITT. AUG SEP 178.21 2 ___ ------___ ---___ ___ ------------178.28 ---___ ------------------___ ---___ 178.21 5 ___ ___ ___ ___ ___ ___ 177.97 6 ___ ---___ ___ ---___ ___ ___ ___ ------177.97 ---8 ------------------------------178.11 178.14 10 ---------178.01 11 177.84 ------------12 ------------------------------___ ---------178 10 13 ------178.09 15 ---178.06 16 178.16 17 ---___ ___ --------e180.3 ---178.17 ------------------------18 ---------178.18 178.48 19 178.17 178.50 21 178.10 ---------------------------177.97 177.90 ___ ___ ---23 ___ ---___ ------___ ---178.43 ------------------------------178.34 24 25 177.92 26 177.91 178.12 27 --------- e182.5 ---------177.87 2.8 ___ --------------- e183.1 ---------177.85 177.87 178.32 ------------------------29 178.37 178.40 31 ___ ___ ___ ___ ---___ ___ ___ ___ ___ 177.91 LOW 182.50 183.10 180.30 --- 178.17 178.50 WATER LEVEL. IN FEET BELOW LAND-SURFACE DATIM. WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

		WATER LEV	EL, IN FE	ET BELOW		ACE DATUM, ILY LOWEST		AR OCTOBI	ER 1997 T	O SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178.39	179.47	180.22	180.79	181.57					181.95	177.67	177.48
2	178.31	179.55	180.39	180.90	181.79					181.80	177.63	177.36
3	178.37	179.55	180.39	181.12	181.78					181.68	177.62	177.45
4	178.38	179.61	180.45	180.96	181.60					181.57	177.67	177.51
5	178.44	179.65	180.46	181.07	181.78					181.33	177.61	177.59
6	178.57	179.64	180.38	181.17	181.78					181.22	177.42	177.78
7	178.45	179.49	180.11	181.10	181.64					181.14	177.23	177.79
8	178.62	179.76	180.14	181.04	181.66					181.01	177.19	177.67
9	178.72	179.80	180.51	181.17	181.87					180.83	177.25	177.62
10	178.64	179.76	180.77	181.20	181.91					180.63	177.23	177.75
11	178.41	179.68	180.79	181.16	181.91					180.44	177.18	177.86
12	178.72	179.57	180.73	181.24	181.90					180.16	177.18	177.89
13	178.94		180.67	181.24	181.84					180.01	177.21	177.89
14	179.02		180.64	181.26	181.80					179.77	177.11	178.12
15	179.15		180.62	181.14	181.66					179.79	177.02	178.18
16	179.15		180.62	181.22	181.85					179.69	176.97	178.16
17	178.92	179.58	180.51	181.31	181.85					179.43	177.08	178.09
18	179.00	179.89	180.64	181.44	182.01				182.69	179.18	177.08	178.08
19	179.09	179.89	180.85	181.34	182.03				182.72	179.02	177.25	178.19
20	179.13	179.83	180.79	181.40	182.00				182.71	178.83	177.32	178.39
21	179.14	179.88	180.58	181.46	181.90				182.76	178.79	177.28	178.48
22	178.92	180.04	180.78	181.41	181.96				182.73	178.80	177.17	178.48
23	178.80	180.01	180.73	181.51	182.14				182.54	178.64	177.08	178.41
24	179.19	180.00	180.79	181.41	182.12				182.31	178.50	177.21	178.40
25	179.32	180.15	180.83	181.62					182.30	178.37	177.23	178.33
26	179.21	180.14	180.93	181.61					182.18	178.31	177.12	178.59
27	179.03	180.06	180.78	181.57					182.23	178.22	177.39	178.65
28	179.16	180.22	180.87	181.65					182.21	178.00	177.41	178.59
29	179.10	180.31	180.82	181.65					182.11	177.92	177.42	178.63
30	179.11	180.31	181.06	181.55					182.12	177.91	177.34	178.86
31	179.28		181.05	181.57						177.84	177.46	
LOW	179.32	180.31	181.06	181.65	182.14				182.76	181.95	177.67	178.86

e Estimated

SITE NUMBER FROM LOCATION MAP.—67.

COUNTY.—Fall River.

LOCAL WELL NUMBER.—7S4E19BCCB.

SITE ID (STATION NUMBER).—432548103414801.

OTHER IDENTIFIERS.—FR-92A and Mnkt Jnct Mdsn.

LOCATION.—Lat 43°25′45.8″, long 103°41′51.2″, in NW¹/4SW¹/4SW¹/4NW¹/4 sec. 19, T. 7 S., R. 4 E., Hydrologic Unit 10120106, about 10 mi west of Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 1,540 ft deep with 1,339 ft of 5-in. steel casing; 4.5-in. steel casing from 1,309 to 1,540 ft; bottom 14 ft slotted with 1/4 by 11/4-in. vertical slots.

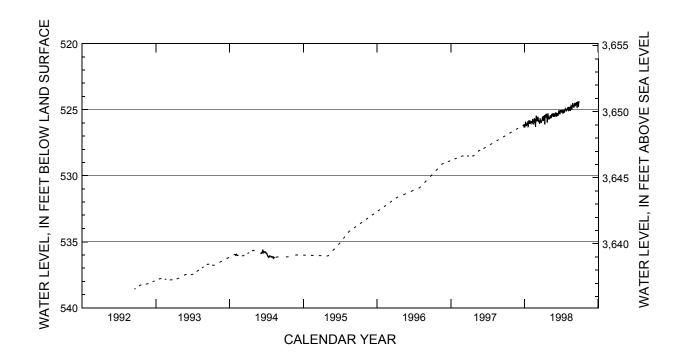
INSTRUMENTATION.—Electronic data logger with pressure transducer. Prior to Jan. 27, 1994, intermittent taped measurements.

DATUM.—Elevation of land-surface datum is 4,175.1 ft above sea level. Measuring point: Top of steel casing, 2.1 ft above land-surface datum.

REMARKS.—Available records fair.

PERIOD OF RECORD.—September 1992 to September 1998.

EXTREMES.—Highest daily water level, 524.37 ft below land-surface datum, Sept. 27, 1998; lowest daily water level, 538.60 ft below land-surface datum, Sept. 16, 1992.



SITE NUMBER 67—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

					DAI	LY LOWEST	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3								e536.08				
4												
5												
6												
7												
8												
9												
10												
10												
11												
12												
13	e536.15											
14												
15											e534.23	
16												
17												
18												
19												
20												
20												
21												
22												
23												
24												
25												
26												
27												
28									e535.15			
29		e536.00										
30												
31												
LOW	536.15	536.00						536.08	535.15		534.23	
		WATER LEVEL	, IN FEE	r below La		CE DATUM, LY LOWEST		EAR OCTO	3ER 1995 TO	SEPTEME	BER 1996	

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
9												
6												
7												
8												
9							e531.65					
10												
11												
12												
13												
14												
15												
13												
16												
17												
18												
19												
20												
20												
0.1												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31										e530.90		
LOW							531.65			530.90		

e Estimated

SITE NU	JMBE	ER 67—C	Continue	i								
		WATER LEV	EL, IN FE	ET BELOW			1, WATER Y ST VALUES		BER 1996 '	TO SEPTEMB	ER 1997	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3 4												
5												
6												
7 8												
9												
10												
11												
12												
13 14												
15												
16												
17									e527.9			
18												
19												
20		529.1						e528.1				
21												
22												
23 24							e528.5					
25												
26												
27					e528.5							
28												
29												
30 31												
31												
LOW		529.10			528.50		528.50	528.10	527.90			
		WATER LEV	EL, IN FE	ET BELOW			1, WATER N ST VALUES		BER 1997 :	TO SEPTEMB	ER 1998	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				526.30	526.00	525.52	525.62	525.63	525.54	525.13	525.01	524.70
2				526.35	525.89	525.65	525.54	525.55	525.38	525.19	524.97	524.84
3 4				526.11 526.18	525.92 526.01	525.84 525.84	525.49 525.81	525.70 525.70	525.28 525.33	525.13 525.13	524.91 524.80	524.78 524.64
5				526.19	525.92	525.66	525.82	525.67	525.21	525.18	524.90	524.63
6				525.92	525.91	525.86	525.68	525.66	525.25	525.14	525.02	524.58
7				526.19	526.03	525.74	525.62	525.52	525.46	525.03	525.02	524.62
8				526.24	525.99	525.58	525.48	525.48	525.48	525.05	525.06	524.71
9				526.11	525.92	525.57	525.46	525.46	525.33	525.09	524.87	524.71
10				526.11	525.70	525.72	525.60	525.52	525.47	525.11	524.90	524.66
11				526.15	525.82	525.82	526.07	525.61	525.47	525.22	524.91	524.51
12				526.10	525.90	525.91	526.11	525.54	525.25	525.19	524.85	524.64
13 14				526.17 526.02	525.92 526.04	525.93 525.86	525.60 525.52	525.60 525.58	525.40 525.34	525.16 525.19	524.87 524.98	524.63 524.53
15				526.18	526.11	525.86	525.50	525.44	525.37	524.98	525.05	524.43
16				526.07	525.94	525.97	525.42	525.34	525.46	525.02	525.09	524.55
17				526.05	525.81	526.06	525.47	525.44	525.28	525.09	524.88	524.59
18				525.88	525.77	525.84	525.53	525.36	525.26	525.22	524.90	524.82
19				526.27	525.66	525.66	525.58	525.29	525.30	525.14	524.77	524.83
20				526.24	525.79	525.81	525.38	525.44	525.15	525.11	524.64	524.51
21				525.82	525.96	525.82	525.40	525.50	525.02	525.04	524.77	524.39
22				525.93	526.00	525.87	525.60	525.49	525.19	524.95	524.86	524.46
23 24				525.93 526.05	525.73 526.11	525.87 525.98	525.84 525.97	525.43 525.33	525.30 525.28	524.99 525.02	524.92 524.96	524.55 524.64
25				525.98	526.11	525.98	525.83	525.34	525.25	525.02	524.96	524.64
26				525.81	525.91	525.91	525.42	525.54	525.27	524.93	524.79	524.69
27				526.00	525.64	525.91	525.28	525.50	525.10	525.04	524.79	524.37
28			526.16	525.99	525.47	525.82	525.47	525.28	525.07	525.07	524.51	524.45
29			526.24	526.04		525.82	525.63	525.41	525.07	525.02	524.65	524.45
30 31			526.18 526.23	526.08 525.89		525.61 525.66	525.67	525.48 525.33	525.00	524.95 525.02	524.73 524.65	524.45

e Estimated

LOW

262

526.35 526.30

526.23 526.24

525.70

525.54

525.22

525.09

524.84

526.06 526.11

SITE NUMBER FROM LOCATION MAP.—68.

COUNTY.—Fall River.

LOCAL WELL NUMBER.—7S4E19BCCB2.

SITE ID (STATION NUMBER).—432548103414802.

OTHER IDENTIFIERS.—FR-94A and Mnkt Jnct Mnls.

LOCATION.—Lat 43°25′45.8″, long 103°41′51.2″, in NW¹/4SW¹/4SW¹/4NW¹/4 sec. 19, T. 7 S., R. 4 E., Hydrologic Unit 10120106, about 10 mi west of Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 710 ft deep with 557 ft of 5-in. steel casing; open hole from 557 to 710 ft.

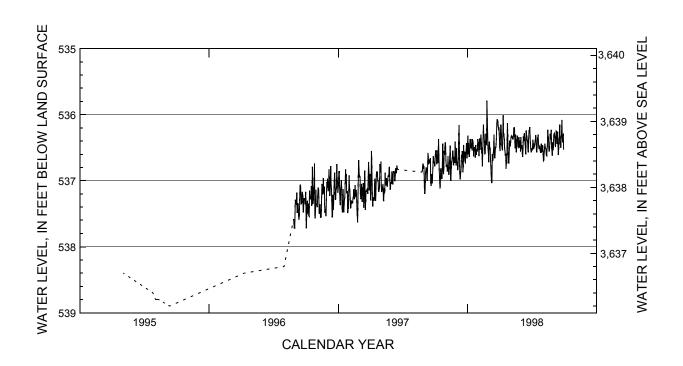
INSTRUMENTATION.—Electronic data logger with pressure transducer. Prior to September 1994, intermittent taped measurements.

DATUM.—Elevation of land-surface datum is 4,175.1 ft above sea level. Measuring point: Top of steel casing, 1.5 ft above land-surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—May 1995 to September 1998.

EXTREMES.—Highest daily water level, 535.79 ft below land-surface datum, Feb. 25, 1998; lowest daily water level, 538.9 ft below land-surface datum, Sept. 11, 1995.



SITE NUMBER 68—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2								e538.40			e538.8	
4												
5												
6												
7												
8 9												
10											e538.8	
11												e538.9
12												
13 14												
15												
16 17												
18												
19												
20												
21												
22												
23												
24												
25												
26										e538.7		
27												
28												
29 30												
31												
LOW								538.40		538.70	538.80	538.90
					DAI	LY LOWES	T VALUES	EAR OCTOBE		O SEPTEME		
DAY	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES	T VALUES APR	MAY	JUN	O SEPTEME	AUG	SEP
1	OCT	NOV	DEC	JAN	DAI FEB 	LY LOWES' MAR	T VALUES APR	MAY	JUN	O SEPTEME JUL 	AUG	537.29
1 2	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES	T VALUES APR	MAY	JUN	O SEPTEME	AUG	537.29 537.32
1	OCT 	NOV 	DEC	JAN 	DAI FEB 	LY LOWES	T VALUES APR	MAY 	JUN 	O SEPTEME JUL 	AUG	537.29
1 2 3	OCT 	NOV 	DEC 	JAN 	DAI FEB 	MAR	T VALUES APR	MAY 	JUN 	JUL	AUG 	537.29 537.32 537.35
1 2 3 4 5	OCT	NOV	DEC	JAN 	DAI FEB	MAR	T VALUES APR	MAY 	JUN 	JUL	AUG	537.29 537.32 537.35 537.36 537.18
1 2 3 4	OCT	NOV 	DEC	JAN 	DAI FEB 	MAR	T VALUES APR	MAY 	JUN 	JUL	AUG 	537.29 537.32 537.35 537.36
1 2 3 4 5	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34
1 2 3 4 5 6 7 8 9	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34 537.36
1 2 3 4 5	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR	MAY	JUN	JUL JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.36 537.53
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34 537.35 537.53
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34 537.36 537.53
1 2 3 4 5 6 7 8 9 10	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34 537.35 537.53
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.36 537.53 537.59 537.59 537.59 537.09 537.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.36 537.53 537.53 537.59 537.52 537.29 537.09 537.06
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.36 537.53 537.53 537.59 537.59 537.59 537.09 537.09 537.06 537.10 537.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.36 537.53 537.53 537.59 537.52 537.29 537.09 537.06
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR e538.40	MAY	JUN	JUL JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.48 537.34 537.53 537.53 537.59 537.59 537.69 537.69 537.09 537.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCT	NOV	DEC	JAN	DAI FEB	MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.35 537.36 537.18 537.48 537.48 537.34 537.53 537.53 537.59 537.59 537.09 537.06 537.35 537.35 537.37
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.18 537.48 537.36 537.53 537.53 537.59 537.52 537.29 537.09 537.06
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR	MAY	JUN	JUL	AUG	537.29 537.35 537.36 537.18 537.48 537.48 537.34 537.53 537.52 537.59 537.52 537.29 537.09 537.10 537.35 537.35 537.35 537.35 537.35 537.35 537.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.48 537.48 537.36 537.53 537.52 537.52 537.52 537.52 537.52 537.52 537.10 537.35 537.35 537.35 537.35 537.35 537.35
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR	MAY	JUN	JUL	AUG	537.29 537.35 537.36 537.18 537.48 537.48 537.34 537.53 537.59 537.59 537.59 537.09 537.00 537.10 537.35 537.35 537.35 537.35 537.35 537.35 537.35
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	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.48 537.48 537.48 537.53 537.52 537.52 537.52 537.52 537.52 537.52 537.10 537.10 537.35 537.35 537.35 537.35 537.35 537.35 537.35 537.35 537.29 537.29 537.29 537.29 537.29
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	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.48 537.48 537.36 537.53 537.59 537.52 537.59 537.59 537.59 537.59 537.59 537.59 537.10 537.35 537.35 537.35 537.35 537.37 537.37
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	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR e538.40	MAY	JUN	JUL	AUG	537.29 537.35 537.36 537.18 537.48 537.48 537.34 537.53 537.59 537.59 537.59 537.59 537.10 537.35 537.35 537.35 537.35 537.35 537.37 537.10 537.10 537.27 537.27 537.27 537.27 537.27 537.27 537.27
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.48 537.48 537.36 537.53 537.59 537.52 537.59 537.59 537.59 537.59 537.59 537.59 537.10 537.35 537.35 537.35 537.35 537.37 537.37
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 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	OCT	NOV	DEC	JAN	DAI FEB	LY LOWES' MAR	APR	MAY	JUN	JUL	AUG	537.29 537.32 537.35 537.36 537.48 537.48 537.52 537.59 537.59 537.59 537.59 537.59 537.51 537.52 537.35 537.35 537.35 537.35 537.35 537.35 537.37 537.27 537.27 537.27 537.27 537.27 537.27 537.30 537.30 537.30

e Estimated

SITE NUMBER 68—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN TITI. ATIG SEP 537.47 537.39 536.97 537.06 537.08 536.95 537.14 536.71 536.86 537.10 537.11 537.15 537.15 537.28 537.30 537.16 537.07 537.17 536.90 537.05 537 72 537.40 536 86 536 93 ___ ___ 537.20 537.53 537.24 536.86 536.94 537.14 537.11 537.31 537.14 537.09 537.42 537.20 536.55 537.10 537.05 ------536.89 ___ 5 537 31 537 11 536 83 537 30 537 40 537 28 536 66 537 15 536 86 536 86 6 537.49 537.15 536.95 537.37 537.30 537.26 537.06 537.09 536.86 536.80 ---537.48 537.46 537.23 537.14 537.35 537.05 537.33 537.39 537.05 536.86 ---536.83 537.35 537.50 537.19 537.10 537.32 537.20 ___ 536.88 536.96 9 537.53 537.43 537.00 536.99 537.32 537.32 537.25 537.31 537.00 ------537.00 ___ 10 537.54 537.36 536.78 537.11 537.34 537.10 537.30 537.11 537.00 536.84 11 537 15 537 56 537.07 537.41 537 27 537.11 537.30 537.19 536 83 ------536 58 537.26 537.13 537.25 537.28 ___ ___ 12 537.55 537.48 537.04 537.15 536.81 536.63 13 537.27 537.55 537.30 537.45 537.13 537.39 537.06 536.88 ___ 536.88 536.74 14 537 25 537 35 537.55 537.13 537 23 537.41 536.97 537.03 536.88 ------536.73 537.24 537.55 15 537.05 537.28 537.20 537.30 537.07 536.77 536.69 537.43 16 537.08 537.15 537.22 537.48 537.25 536.85 537.30 536.98 536.80 ------536.70 537.44 537.35 537.20 537.44 537.38 537.21 537.36 537.07 537.13 536.96 536.83 ---536.74 17 18 537.36 537.17 537.27 537.24 536.92 537.07 ___ 536.66 19 536.79 536.96 537.20 537.26 537.22 537.31 536.86 537.09 ---------537.03 537.13 537.00 537.14 20 537.15 536.87 537.00 537.08 537.18 537 04 536.96 21 537.35 537.19 536.88 536.83 537.21 537.17 536.87 536.94 ---------22 537.00 537.43 537.00 536.92 537.28 537.09 537.04 537.14 536.90 23 537.10 537.48 537.29 537.28 536.90 537.51 537.13 537.00 536.94 ___ ___ ___ 537.04 537.09 537.63 537.17 537.13 ---24 537.48 537.18 536.83 ---536.96 537.15 25 536.74 537.43 537.19 537.33 537.20 537.17 536.79 536.87 536.80 26 537.52 537.53 536.93 537.06 537.13 536.99 536.85 536.63 537.11 537.16 ------536.75 27 537.57 537.53 537.49 536.69 536.72 537.09 537.13 536.80 536.65 28 537.45 537.17 536.94 537.42 536.81 536.87 536.75 537.13 ___ ___ 536.74 536.73 537.14 29 537.02 537.01 537.42 536.82 537.02 ------536.77 ---537.14 536.73 30 537.36 537.18 536.86 537.05 536.82 536.78 31 537 36 537.14 536.92 ___ 536.90 537.02 ___ ___ 536.78 LOW 537.72 537.56 537.55 537.49 537.63 537.44 537.39 537.31 537.05 536.87 537.20 WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES DAY OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP 536.74 536.70 536.51 536.44 536.42 536.56 536.29 536.39 536.34 536.53 536.46 536.49 536.60 536.79 536.73 536.32 536.62 536.72 536.49 536.48 536.50 536.52 536.48 536.32 2 536.54 536.71 536.55 536.51 536.53 536.76 536.60 536.62 536.47 536.42 536.60 536.29 536.62 536.78 536.84 536.43 536.36 536.41 536.44 536.34 536.46 536.50 536.70 536.28 5 536.81 536.54 536.52 536.51 536.15 536.33 536.59 536.69 536.64 536.86 536.38 536.34 6 536.75 536.82 536.67 536.64 536.53 536.51 536.17 536.32 536.64 536.44 536.56 536.45 536.31 536.16 536.56 536.37 536.38 536.30 536.67 536.78 536.35 536.33 536.52 536.50 536.49 536.54 536.63 536.30 536.52 536.50 536.64 536.85 536.46 536.33 536.44 536.35 8 536.73 536.90 536.91 536.56 536.47 536.43 536.51 536.37 536.40 536.48 536.50 536.25 1.0 536 65 536.89 536.88 536.51 536.57 537 03 536 54 536.37 536.30 536.45 536 51 536.26 11 536.37 536.72 536.98 536.37 536.56 537.03 536.33 536.31 536.28 536.42 536.52 536.44 12 536.61 536.62 536.47 536.93 536.86 536.51 536.44 536.78 536.52 536.60 536.69 536.01 536.29 536.21 536.19 536.37 536.38 536.31 536.61 536.37 536.26 13 536.44 536.83 536.62 536.79 536.97 536.54 536.37 536.69 536.29 536.22 536.53 536.36 536.53 536.45 15 537 12 537.00 536.61 536.37 536.15 536.57 536.38 536.42 536.60 536.56 536.47 536.61 537.08 536.79 536.31 536.50 536.51 536.57 536.66 536.40 536.54 536.24 536.23 536.51 536.55 536.59 536.44 536.63 536.31 536.51 536.30 536.48 536.31 536.33 536.32 536.36 17 536.84 536.73 536.30 536.55 536.49 536.37 536.62 536.36 18 536.81 536.69 536.59 536.36 19 536.95 536.65 536.87 536.52 536.60 536.66 536.59 536.57 536.39 536.34 536.50 536.15 20 536 97 536 55 536 78 536 49 536 58 536 61 536 82 536 50 536 40 536 30 536 56 536 45 536.46 21 536.97 536.55 536.55 536.43 536.50 536.73 536.38 536.52 536.45 536.52 536.42 536.71 536.58 536.73 536.49 536.42 536.29 22 536.73 536 76 536 54 536 29 536 50 536 32 536.57 536 52 536 50 536.76 23 536.44 536.65 536.44 536.45 536.35 536.37 536.49 536.34 536.80 536.64 536.57 536.46 536.45 536.28 536.13 536.48 536.24 536.47 536.37 536.28 24 25 536.90 536.68 536.60 536.57 535.79 536.14 536.32 536.49 536.24 536.52 536.37 536.08 26 536.81 536.73 536.74 536.61 536.07 536.07 536.59 536.39 536.19 536.55 536.23 536.33 536.72 536.74 536.10 27 536.55 536.41 536.57 536.54 536.33 536.34 536.33 536.58 536.50 536.42 28 536.61 536.59 536.56 536.55 536.51 536.10 536.47 536.43 536.48 536.56 536.31 29 536.49 536.72 536.43 536.55 536.18 536.59 536.50 536.52 536.44 536.62 536.30 536.77 536.37 536.41 536.57 536.42 30 536.42 536.66 536.22 536.39 536.56 536.53 536.21 31 536.48 536.65 536.41 536.56 536.55 536.54 537.12 537.00 536.98 536.78 537.03 536.82 536.57 536.70 LOW 536.65 536.64 536.58 536.61 SITE NUMBER FROM LOCATION MAP.—69.

COUNTY.—Fall River.

LOCAL WELL NUMBER.—7S5E14CCCC.

SITE ID (STATION NUMBER).—432603103295901.

OTHER IDENTIFIERS.—FR-95A and Vets Home Mdsn.

LOCATION.—Lat 43°26′02.7″, long 103°29′58.7″, in SW¹/4SW¹/4SW¹/4SW¹/4SW¹/4 sec. 14, T. 7 S., R. 5 E., Hydrologic Unit 10120109, at Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Madison.

WELL CHARACTERISTICS.—Drilled observation well, 915 ft deep with 902 ft of 5-in. steel casing; open hole from 902 to 915 ft.

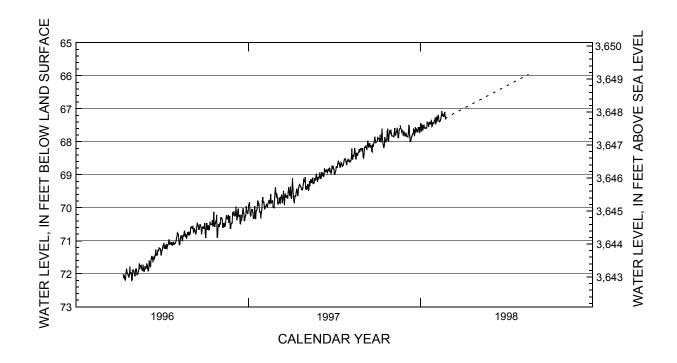
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,715.1 ft above sea level. Measuring point: Top of steel casing, 2.1 ft above land-surface datum.

REMARKS.—Available records are good.

PERIOD OF RECORD.—April 1996 to September 1998.

EXTREMES.—Highest daily water level, 65.96 ft (estimated) below land-surface datum, Aug. 17, 1998; lowest daily water level, 72.20 ft below land-surface datum, Apr. 28, 1996.



SITE NUMBER 69—Continued

		WATER LEVEL	, IN FEET	r BELOW	LAND-SURFACE	E DATUM, Y LOWEST		AR OCTOBER	1995 T	O SEPTEMBE	R 1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								71.89	71.86	71.30	70.91	70.58
2								71.91	71.93	71.27	70.87	70.61
3 4								71.96 72.05	71.83 71.62	71.17 71.12	70.76 70.78	70.61 70.64
5								72.08	71.64	71.09	70.82	70.55
6								71.88	71.78	71.24	71.02	70.74
7								71.85	71.77	71.14	71.12	70.71
8 9								71.87 72.03	71.58 71.50	71.24 71.24	71.11 70.94	70.64 70.66
10							72.02	72.03	71.53	71.11	70.87	70.77
11							72.10	71.99	71.48	71.22	70.89	70.81
12							72.07	71.92	71.65	71.24	70.84	70.72
13							72.16	71.87	71.54	71.13	71.01	70.57
14 15							72.19 72.14	71.69 71.85	71.49 71.54	71.13 71.09	70.95 70.85	70.48 70.50
16 17							71.98 71.85	71.77 71.75	71.48 71.42	70.96 71.05	70.85 70.78	70.53 70.66
18							71.96	71.74	71.27	71.13	70.70	70.66
19							72.00	71.83	71.45	71.08	70.88	70.58
20							72.01	71.89	71.41	71.05	70.81	70.50
21							72.08	71.90	71.43	71.06	70.83	70.55
22							72.10	71.73	71.32	71.14	70.94	70.58
23 24							72.01 71.79	71.85 71.94	71.28 71.30	71.08 71.12	70.87 70.76	70.81 70.71
25							72.00	71.94	71.22	71.12	70.75	70.71
26							71.99	71.77	71.24	71.05	70.84	70.62
27							71.98	71.85	71.24	71.11	70.73	70.62
28							72.20	71.84	71.27	71.09	70.80	70.58
29 30							72.18 71.89	71.81 71.69	71.45 71.40	71.09 71.05	70.82 70.77	70.64 70.46
31								71.75		71.00	70.61	70.40
LOW							72.20	72.08	71.93	71.30	71.12	70.81
		WATER LEVEL	, IN FEET	T BELOW	LAND-SURFACE	E DATUM, Y LOWEST		CAR OCTOBER	1996 Т	O SEPTEMBE	R 1997	
DAY	OCT	WATER LEVEL	DEC	T BELOW				CAR OCTOBER	1996 T	O SEPTEMBE	R 1997 AUG	SEP
DAY 1		NOV	DEC	JAN	DAIL FEB	Y LOWEST	VALUES APR	MAY	JUN	JUL	AUG	
1 2	70.78 70.91	NOV 70.48 70.49	DEC 70.10 70.25	JAN 69.94 69.88	DAIL FEB 69.86 69.82	MAR 69.69 69.57	APR 69.69 69.73	MAY 69.07 69.41	JUN 68.93 69.05	JUL 68.85 68.98	AUG 68.60 68.54	68.46 68.49
1 2 3	70.78 70.91 70.64	NOV 70.48 70.49 70.29	DEC 70.10 70.25 70.25	JAN 69.94 69.88 69.84	DAIL FEB 69.86 69.82 69.93	Y LOWEST MAR 69.69 69.57 69.72	APR 69.69 69.73 69.50	MAY 69.07 69.41 69.46	JUN 68.93 69.05 69.13	JUL 68.85 68.98 68.98	AUG 68.60 68.54 68.60	68.46 68.49 68.38
1 2 3 4	70.78 70.91 70.64 70.47	NOV 70.48 70.49 70.29 70.33	DEC 70.10 70.25 70.25 70.25	JAN 69.94 69.88 69.84 70.13	DAIL FEB 69.86 69.82 69.93 70.05	Y LOWEST MAR 69.69 69.57 69.72 69.88	APR 69.69 69.73 69.50 69.11	MAY 69.07 69.41 69.46 69.35	JUN 68.93 69.05 69.13 69.07	JUL 68.85 68.98 68.98 68.90	AUG 68.60 68.54 68.60 68.62	68.46 68.49 68.38 68.17
1 2 3 4 5	70.78 70.91 70.64 70.47 70.54	NOV 70.48 70.49 70.29 70.33 70.32	DEC 70.10 70.25 70.25 70.25 70.97	JAN 69.94 69.88 69.84 70.13 70.25	DAIL FEB 69.86 69.82 69.93 70.05 69.98	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89	APR 69.69 69.73 69.50 69.11 69.40	MAY 69.07 69.41 69.46 69.35 69.44	JUN 68.93 69.05 69.13 69.07 68.92	JUL 68.85 68.98 68.98 68.90 68.87	AUG 68.60 68.54 68.60 68.62 68.58	68.46 68.49 68.38 68.17 68.17
1 2 3 4 5	70.78 70.91 70.64 70.47 70.54	NOV 70.48 70.49 70.29 70.33 70.32	DEC 70.10 70.25 70.25 70.22 69.97 70.16	JAN 69.94 69.88 69.84 70.13 70.25	DAIL FEB 69.86 69.82 69.93 70.05 69.98	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89	APR 69.69 69.73 69.50 69.11 69.40	MAY 69.07 69.41 69.46 69.35 69.44	JUN 68.93 69.05 69.13 69.07 68.92 69.04	JUL 68.85 68.98 68.98 68.90 68.87	AUG 68.60 68.54 68.60 68.62 68.58	68.46 68.49 68.38 68.17 68.17
1 2 3 4 5	70.78 70.91 70.64 70.47 70.54 70.67 70.58	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06	DAIL FEB 69.86 69.82 69.93 70.05 69.98	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.69	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30	JUN 68.93 69.05 69.13 69.07 68.92	JUL 68.85 68.98 68.98 68.90 68.87 68.77	AUG 68.60 68.54 68.60 68.62 68.58	68.46 68.49 68.38 68.17 68.13 68.13
1 2 3 4 5 6 7 8 9	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.54 70.67	NOV 70.48 70.49 70.29 70.33 70.32 70.60 70.60 70.48	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.05 70.06	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.85 69.85 69.86	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.49	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.58 68.50 68.51 68.51	68.46 68.49 68.38 68.17 68.13 68.13 68.21 68.23
1 2 3 4 5	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.54	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.05	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.85 69.89	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77	AUG 68.60 68.54 68.60 68.62 68.58 68.58	68.46 68.49 68.38 68.17 68.17
1 2 3 4 5 6 7 8 9 10	70.78 70.91 70.64 70.47 70.54 70.67 70.68 70.67 70.65 70.42	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26	JAN 69.94 69.88 69.87 70.13 70.25 70.23 70.06 70.05 70.06 70.16 70.33	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95 69.97	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.69 69.84 69.86 69.69 69.70	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.82 69.84 69.63 69.67	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.49 69.43 69.20	JUN 68.93 69.05 69.07 68.92 69.04 68.96 69.07 69.01 68.81	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.51 68.51 68.53	68.46 68.38 68.17 68.17 68.13 68.13 68.21 68.23 68.09
1 2 3 4 5 6 7 8 9 10	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.54 70.67 70.65	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.33	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95 69.97	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.69 69.84 69.86 69.69 69.70 69.60	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.69 68.60	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.51 68.53	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.21 68.21 68.23 68.09
1 2 3 4 5 6 7 8 9 10	70.78 70.91 70.64 70.47 70.54 70.67 70.67 70.65 70.65	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03	JAN 69.94 69.88 69.84 70.13 70.25 70.25 70.06 70.06 70.16 70.33 70.37	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.97 69.86 69.97	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.89 69.86 69.69 69.80 69.80	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.68 69.63 69.67 69.66 69.54 69.44	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88 68.91	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.72	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.51 68.51 68.51 68.53	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.23 68.09 67.97 68.08 68.18
1 2 3 4 5 6 7 8 9 10	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.54 70.67 70.65	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.33	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95 69.97 69.86 69.85 69.78	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.69 69.84 69.86 69.69 69.70 69.60	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.69 68.60	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.51 68.53	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.21 68.21 68.23 68.09
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	70.78 70.91 70.64 70.47 70.54 70.67 70.65 70.65 70.42 70.51 70.50 70.50	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.33	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.48 70.48	JAN 69.94 69.88 69.84 70.13 70.25 70.25 70.06 70.06 70.16 70.33 70.27 69.95 70.31	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.91 69.95 69.97 69.86 69.87 69.88	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.69 69.86 69.69 69.69 69.69 69.60 69.83 69.86 69.66	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.44 69.45 69.64	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.25	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 69.07 69.01 68.81 68.88 68.89 68.86	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.20 68.29	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.18 68.12 68.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.51 70.50 70.50 70.50	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.34 70.34	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.06 70.05 70.33 70.33 70.37 70.37 70.34 70.10	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.78 69.78 69.78 69.79 69.89	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.89 69.86 69.69 69.86 69.69 69.70 69.83 69.69 69.60 69.83 69.66	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.44 69.45 69.64	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.25	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 69.07 69.01 68.81 68.88 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.79 68.71 68.63 68.63	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.53 68.40 68.46 68.38 68.20 68.29	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.50 70.38 70.57	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48 70.23 70.30 70.34 70.32	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.33 70.27 69.95 70.31 70.34 70.10 70.08	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.78 69.78 69.89 69.79 69.89	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.86 69.69 69.86 69.69 69.70 69.83 69.86 69.66 69.69	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.44 69.45 69.45 69.45 69.45	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.25	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88 68.91 68.88 68.90 68.86	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.69 68.60 68.64 68.72 68.79 68.79 68.79	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.20 68.29 68.48	68.46 68.49 68.38 68.17 68.17 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.51 70.50 70.38 70.57 70.54	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.23	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.22 70.39 70.28 70.15	JAN 69.94 69.88 69.84 70.13 70.25 70.25 70.06 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.10 70.08	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.89 69.79 69.89 69.89	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.89 69.86 69.86 69.69 69.70 69.60 69.83 69.66 69.86 69.73 69.86 69.73 69.73 69.67	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.45 69.45 69.41 69.35 69.30	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.20 69.35 69.19 69.21 69.25 69.14 69.27 69.27	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88 68.99 68.86 68.90 68.89 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.64 68.70 68.70	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.53 68.40 68.46 68.38 68.20 68.29 68.48 68.34 68.34	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.51 70.50 70.38 70.57 70.49	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.32 70.30 70.34 70.32 70.32 70.32 70.46	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.05 70.06 70.16 70.33 70.33 70.34 70.31 70.34 70.10 70.08 70.03	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.78 69.78 69.78 69.78 69.79 69.89	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.85 69.69 69.86 69.80 69.80 69.83 69.60 69.83 69.60 69.83 69.60 69.83 69.60 69.83 69.60	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.44 69.45 69.64 69.69 69.30 69.33	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.14 69.21 69.21 69.25 69.14 69.27 69.27	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 68.90 68.81 68.88 68.91 68.86 68.90 68.86 68.93 68.87	JUL 68.85 68.98 68.98 68.90 68.76 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.70 68.76	AUG 68.60 68.54 68.62 68.58 68.58 68.51 68.53 68.40 68.46 68.38 68.20 68.48 68.38 68.43	68.46 68.49 68.38 68.17 68.17 68.13 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.12 68.12 68.13
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.54 70.59 70.54 70.59	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.32 70.30 70.34 70.32 70.36 70.34 70.32 70.36 70.46	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.10 70.08 70.03 69.80	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.78 69.89 69.79 69.89 69.79 69.89	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.69 69.69 69.70 69.60 69.86 69.69 69.60 69.70 69.60 69.87 69.60 69.87 69.60	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.45 69.45 69.45 69.40 69.43 69.33	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.27 69.27 69.24	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 68.96 68.96 68.96 68.91 68.81 68.89 68.86 68.90 68.86 68.87 68.89	JUL 68.85 68.98 68.98 68.90 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.64 68.71 68.63	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.53 68.40 68.38 68.20 68.29 68.48 68.34 68.34 68.34 68.34 68.34	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.12 68.12 68.12 68.16 68.16 68.16 68.16 68.16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.13 70.49	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.23 70.30 70.34 70.22 70.46 70.42 70.25	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.28 70.28 70.15 70.00 70.12 70.19	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.37 70.27 70.31 70.34 70.10 70.08 70.08 70.03 69.80 69.80	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.78 69.89 69.79 69.89 69.79 69.89	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.69 69.60 69.86 69.60 69.83 69.69 69.60 69.83 69.69 69.70 69.60 69.83 69.66	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.63 69.67 69.66 69.54 69.45 69.64 69.45 69.30 69.33 69.34 69.38	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.27 69.27 69.27 69.27	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.88 68.89 68.86 68.90 68.88 68.87	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.60 68.64 68.79 68.71 68.63 68.71 68.63 68.71 68.63	AUG 68.60 68.54 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.20 68.29 68.38 68.34 68.34 68.34 68.34 68.34	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.18 68.12 68.05 68.14 68.16 68.11 68.28 68.31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	70.78 70.91 70.64 70.47 70.54 70.67 70.65 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.42 70.42 70.41 70.51	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.56 70.48 70.34 70.23 70.30 70.34 70.22 70.46 70.42 70.25 70.63 70.62	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.39 70.39 70.39	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.05 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.10 70.38 70.03 69.80 69.80 69.80 69.80	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.97 69.86 69.85 69.78 69.78 69.89 69.79 69.89 69.79 69.89 69.79 69.89 69.79	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.69 69.69 69.70 69.60 69.60 69.86 69.69 69.60 69.86 69.69 69.60 69.60 69.86 69.60 69.60 69.60 69.60 69.60 69.60 69.60 69.60 69.60 69.60 69.60 69.71	APR 69.69 69.73 69.50 69.11 69.40 69.68 69.68 69.63 69.67 69.64 69.64 69.44 69.45 69.64 69.41 69.45 69.33 69.33 69.34 69.38	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.21 69.25	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 69.07 69.01 68.81 68.89 68.89 68.86 68.90 68.88 68.87 68.89 68.88 68.87	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.64 68.64 68.72 68.79 68.71 68.63 68.70 68.76 68.71 68.63 68.70 68.70 68.70 68.70 68.70 68.70	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.53 68.40 68.38 68.20 68.29 68.38 68.34 68.34 68.34 68.34 68.34 68.34 68.34 68.34	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.12 68.12 68.16 68.11 68.16 68.11 68.16 68.11 68.12 68.11
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.50 70.50 70.38 70.54 70.13 70.49 70.49	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.32 70.34 70.32 70.32 70.30 70.34 70.32 70.22 70.46	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39 70.27 70.15 70.39 70.28 70.15 70.00	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.08 70.03 69.80 69.80	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.97 69.86 69.85 69.78 69.78 69.89 69.79 69.89 69.79 69.89 69.79 69.89 69.79	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.85 69.69 69.84 69.86 69.69 69.70 69.60 69.83 69.66 69.69 69.70 69.60 69.87 69.60 69.88 69.66	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.44 69.45 69.41 69.35 69.30 69.33 69.34 69.38 69.30	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.27 69.27 69.27 69.27 69.27 69.24	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 68.90 68.88 68.91 68.88 68.89 68.86 68.87 68.89 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.70 68.71 68.70 68.71 68.70 68.71	AUG 68.60 68.54 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.20 68.29 68.48 68.38 68.34 68.38 68.38	68.46 68.49 68.38 68.17 68.17 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.05 68.14 68.16 68.11 68.28 68.31
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	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.65 70.42 70.51 70.50 70.50 70.54 70.13 70.49 70.58 70.42 70.41 70.22	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.23 70.30 70.32 70.46 70.48 70.48 70.49 70.40	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.38 70.15 70.00	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.05 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.08 70.08 70.08 70.08 70.08 70.13 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95 69.78 69.85 69.78 69.78 69.78 69.89 69.79 69.86 69.83 69.79 69.89 69.79 69.80 69.79	Y LOWEST MAR 69.69 69.57 69.72 69.88 69.89 69.89 69.86 69.69 69.70 69.60 69.83 69.69 69.60 69.83 69.66 69.66 69.73 69.67 69.67 69.73 69.73 69.73 69.73 69.73	VALUES APR 69.69 69.73 69.50 69.11 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.45 69.45 69.33 69.33 69.33 69.33 69.34 69.46 69.46	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.27 69.27 69.27 69.27 69.27 69.27 69.24	JUN 68.93 69.05 69.07 68.92 69.04 68.96 68.90 68.88 68.91 68.88 68.89 68.86 68.89 68.86 68.89 68.86 68.89 68.86 68.89 68.89 68.89 68.89 68.89	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.79 68.71 68.63 68.70 68.71 68.70 68.71 68.70 68.71 68.70 68.71	AUG 68.60 68.54 68.62 68.58 68.58 68.50 68.21 68.51 68.53 68.40 68.46 68.38 68.29 68.38 68.29 68.29	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.18 68.12 68.05 68.14 68.16 68.11 68.28 68.31 68.21 68.31 68.29 67.97
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	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.51 70.50 70.50 70.38 70.57 70.54 70.42 70.41 70.42 70.41 70.22 70.89 70.90	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.23 70.30 70.34 70.22 70.46 70.42 70.25 70.63 70.62 70.48 70.47	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.39 70.38 70.25 70.44 69.96	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.27 769.95 70.31 70.34 70.10 70.08 69.80 69.80 69.80 69.81 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.89 69.79 69.89 69.79 69.89 69.79 69.80 69.79 69.81 69.79 69.83 69.79	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.69 69.60 69.60 69.83 69.66 69.73 69.66 69.73 69.67 69.73 69.73 69.73 69.73 69.73 69.73 69.73	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.45 69.40 69.41 69.35 69.30 69.33 69.34 69.38 69.40 69.40 69.41 69.29	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 69.07 69.01 68.81 68.88 68.99 68.86 68.90 68.89 68.87 68.89 68.89 68.89 68.89 68.89 68.89 68.89 68.89	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.70 68.71 68.63 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70 68.70	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.20 68.29 68.38 68.34 68.34 68.34 68.34 68.38 68.29 68.29	68.46 68.49 68.38 68.17 68.13 68.13 68.21 68.23 68.09 67.97 68.08 68.18 68.12 68.05 68.14 68.16 68.11 68.28 68.31 68.27 68.07 68.08
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	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.49 70.42 70.41 70.22 70.89 70.90 70.66	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.32 70.34 70.32 70.32 70.30 70.34 70.32 70.46 70.47 70.16	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.38 70.15 70.00	JAN 69.94 69.88 69.88 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.33 70.37 70.31 70.34 70.10 70.08 70.08 70.03 70.13 70.13 70.13 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.91 69.95 69.78 69.85 69.78 69.89 69.79 69.86 69.83 69.79 69.87 69.89 69.79 69.86 69.83 69.79	Y LOWEST MAR 69.69 69.57 69.88 69.89 69.89 69.86 69.69 69.86 69.69 69.70 69.83 69.69 69.73 69.66 69.67 69.71 69.71 69.71 69.71 69.71	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.63 69.67 69.66 69.44 69.45 69.44 69.35 69.33 69.33 69.33 69.33 69.33 69.34 69.40 69.40 69.41 69.40 69.40 69.41 69.50	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.25 69.14 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27	JUN 68.93 69.05 69.07 68.92 69.04 68.96 68.90 68.88 68.90 68.88 68.89 68.86 68.89 68.86 68.89 68.88 68.87 68.89 68.88 68.87 68.89 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.60 68.64 68.79 68.71 68.63 68.71 68.63 68.70 68.76 68.71 68.70 68.71 68.70 68.71	AUG 68.60 68.54 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.29 68.29 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.12 68.05 68.14 68.11 68.28 68.12 68.07 68.15 68.07 67.97
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 29 20 20 20 20 20 20 20 20 20 20 20 20 20	70.78 70.91 70.64 70.47 70.54 70.67 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.42 70.42 70.42 70.50 70.50 70.50	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.56 70.48 70.34 70.23 70.30 70.34 70.32 70.30 70.34 70.32 70.30 70.34 70.48 70.47 70.57	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.39 70.39 70.39 70.39 70.28 70.15 70.00	JAN 69.94 69.88 69.84 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.37 70.37 69.95 70.10 70.38 70.03 69.80 69.80 69.80 69.80 69.81 70.13 70.13 70.13 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.97 69.86 69.85 69.78 69.78 69.78 69.78 69.79 69.89 69.79 69.83 69.79 69.83 69.79 69.83 69.79	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.69 69.80 69.69 69.69 69.69 69.60 69.83 69.66 69.69 69.67 69.67 69.57 69.67 69.57 69.69 69.64 69.71 69.71 69.52 69.49 69.64	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.64 69.44 69.45 69.41 69.33 69.33 69.34 69.38 69.46 69.41 69.29 69.41 69.29 69.18	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 68.96 68.96 68.81 68.89 68.86 68.87 68.89 68.88 68.83 68.87 68.89 68.89 68.88 68.89 68.89 68.88	JUL 68.85 68.98 68.98 68.99 68.77 68.76 68.77 68.78 68.69 68.64 68.64 68.72 68.79 68.71 68.63 68.76 68.71 68.63 68.76 68.71 68.72 68.73	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.51 68.53 68.40 68.38 68.20 68.29 68.48 68.34 68.33 68.29 68.29 68.48 68.33 68.29 68.29 68.21 68.35	68.46 68.49 68.38 68.17 68.13 68.13 68.23 68.09 67.97 68.08 68.12 68.05 68.14 68.11 68.28 68.31 68.12 68.07 68.18 68.19 68.10
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	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.65 70.42 70.51 70.50 70.50 70.38 70.57 70.54 70.49 70.42 70.41 70.22 70.89 70.90 70.66	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.60 70.48 70.47 70.57 70.56 70.48 70.34 70.32 70.34 70.32 70.32 70.30 70.34 70.32 70.46 70.47 70.16	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.24 70.48 70.49 70.22 70.39 70.28 70.15 70.00 70.12 70.19 70.38 70.15 70.00	JAN 69.94 69.88 69.88 70.13 70.25 70.23 70.06 70.06 70.16 70.33 70.33 70.37 70.31 70.34 70.10 70.08 70.08 70.03 70.13 70.13 70.13 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.96 69.95 69.97 69.86 69.85 69.78 69.78 69.89 69.79 69.89 69.79 69.89 69.79 69.89 69.79 69.89 69.79 69.89 69.79	Y LOWEST MAR 69.69 69.57 69.88 69.89 69.89 69.86 69.69 69.86 69.69 69.70 69.83 69.69 69.73 69.66 69.67 69.71 69.71 69.71 69.71 69.71	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.63 69.67 69.66 69.44 69.45 69.44 69.35 69.33 69.33 69.33 69.33 69.33 69.34 69.40 69.40 69.41 69.40 69.40 69.41 69.50	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.19 69.14 69.21 69.25 69.14 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27 69.27	JUN 68.93 69.05 69.07 68.92 69.04 68.96 68.90 68.88 68.90 68.88 68.89 68.86 68.89 68.86 68.89 68.88 68.87 68.89 68.88 68.87 68.89 68.88	JUL 68.85 68.98 68.98 68.90 68.87 68.76 68.77 68.69 68.60 68.64 68.79 68.71 68.63 68.71 68.63 68.70 68.76 68.71 68.70 68.71 68.70 68.71	AUG 68.60 68.54 68.62 68.58 68.58 68.51 68.51 68.53 68.40 68.46 68.38 68.29 68.29 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38 68.38	68.46 68.49 68.38 68.17 68.17 68.13 68.23 68.09 67.97 68.08 68.12 68.05 68.14 68.11 68.28 68.12 68.07 68.15 68.07 67.97
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	70.78 70.91 70.64 70.47 70.54 70.67 70.58 70.67 70.65 70.42 70.51 70.51 70.50 70.50 70.38 70.57 70.42 70.42 70.41 70.42 70.42 70.41 70.22	NOV 70.48 70.49 70.29 70.33 70.32 70.36 70.60 70.48 70.47 70.56 70.48 70.34 70.23 70.30 70.34 70.22 70.46 70.42 70.25 70.63 70.62 70.48 70.47 70.16 70.48 70.23	DEC 70.10 70.25 70.25 70.22 69.97 70.16 70.38 70.30 70.09 70.03 70.26 70.26 70.24 70.48 70.49 70.22 70.39 70.20 70.15 70.00 70.12 70.19 70.39 70.38 70.25 70.19 70.19 70.39 70.19 70.19 70.19 70.19 70.19 70.19 70.19	JAN 69.94 69.84 70.13 70.25 70.23 70.06 70.05 70.06 70.16 70.33 70.37 70.27 69.95 70.31 70.34 70.10 70.08 69.80 69.80 69.94 69.87 70.13 70.13 70.13 70.13 70.13	DAIL FEB 69.86 69.82 69.93 70.05 69.98 69.95 69.97 69.85 69.78 69.78 69.78 69.78 69.78 69.79 69.89 69.79 69.86 69.83 69.79 69.86 69.83 69.79	Y LOWEST MAR 69.69 69.72 69.88 69.89 69.89 69.86 69.86 69.69 69.70 69.60 69.86 69.69 69.73 69.66 69.73 69.67 69.73 69.73 69.67 69.73 69.67 69.73 69.67	VALUES APR 69.69 69.73 69.50 69.11 69.40 69.68 69.82 69.84 69.63 69.67 69.66 69.54 69.45 69.40 69.41 69.30 69.33 69.34 69.38 69.40 69.41 69.29 69.15 69.15	MAY 69.07 69.41 69.46 69.35 69.44 69.30 69.30 69.49 69.43 69.20 69.35 69.14 69.21 69.25 69.14 69.27 69.27 69.24 69.13 69.15 69.11 68.97	JUN 68.93 69.05 69.13 69.07 68.92 69.04 68.96 68.96 69.07 69.01 68.81 68.89 68.89 68.86 68.90 68.88 68.90 68.88 68.90 68.89 68.89 68.89 68.89 68.89 68.89 68.87 68.89 68.89	JUL 68.85 68.98 68.98 68.90 68.77 68.78 68.69 68.60 68.64 68.72 68.79 68.71 68.63 68.70 68.76 68.71 68.63 68.71 68.63 68.71 68.64 68.70 68.71 68.63 68.71 68.63 68.71 68.63	AUG 68.60 68.54 68.60 68.62 68.58 68.58 68.50 68.21 68.53 68.40 68.38 68.20 68.29 68.48 68.34 68.33 68.29 68.29 68.29 68.29 68.38 68.31 68.31 68.32 68.32 68.33 68.29	68.46 68.49 68.38 68.17 68.13 68.13 68.23 68.09 67.97 68.08 68.12 68.05 68.14 68.16 68.11 68.12 68.05 68.14 68.16 68.11 68.17 68.08 68.18 68.11 68.10 68.11

SITE NUMBER 69—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

					DAI	TTI TOMESI	VALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67.97	67.83	67.73	67.44	67.27							
2	67.88	67.83	67.83	67.53	67.45							
3	67.90	67.83	67.83	67.69	67.42							
4	67.91	67.83	67.85	67.48	67.24							
5	67.94	67.85	67.86	67.59	67.38							
6	67.99	67.75	67.74	67.65	67.31							
7	67.79	67.59	67.49	67.51	67.19							
8	67.98	67.80	67.56	67.50	67.23							
9	68.02	67.80	67.84	67.59	67.39							
10	67.86	67.71	67.99	67.59	67.40							
11	67.60	67.69	67.98	67.58	67.37							
12	67.93	67.58	67.90	67.60	67.36							
13	68.05	67.69	67.86	67.59	67.29							
14	68.11	67.88	67.80	67.58	67.22							
15	68.19	67.88	67.77	67.42	67.08							
16	68.11	67.74	67.77	67.45	67.19							
17	67.86	67.74	67.63	67.45	67.18							
18	67.86		67.66	67.55	67.18						e65.96	
19	68.02	67.51	67.83	67.40	67.23							
20	67.95	67.61	67.72	67.46	67.18							
20	07.55	07.01	07.72	07.40	07.10							
21	67.95	67.62	67.56	67.46	67.10							
22	67.70	67.71	67.72	67.40	67.22							
23	67.61	67.69	67.60	67.48	67.32							
24	67.94	67.67	67.67	67.34	e67.27							
25	68.00	67.80	67.66	67.54								
26	67.83	67.79	67.72	67.51								
27	67.66	67.70	67.56	67.43								
28	67.77	67.77	67.65	67.45								
29	67.66	67.83	67.56	67.45								
30	67.65	67.82	67.71	67.37								
31	67.77		67.69	67.37								
LOW	68.19	67.88	67.99	67.69	67.45						65.96	

SITE NUMBER FROM LOCATION MAP.—70.

COUNTY.—Fall River.

LOCAL WELL NUMBER.—7S5E14CCCC2.

SITE ID (STATION NUMBER).—432603103295902.

OTHER IDENTIFIERS.—FR-95B and Vets Home Mnls.

LOCATION.—Lat 43°26′02.7″, long 103°29′58.7″, in SW¹/4SW¹/4SW¹/4SW¹/4SW¹/4 sec. 14, T. 7 S., R. 5 E., Hydrologic Unit 10120109, at Hot Springs. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.—Minnelusa.

WELL CHARACTERISTICS.—Drilled observation well, 320 ft deep with 260 ft of 5-in. steel casing; open hole from 260 to 320 ft.

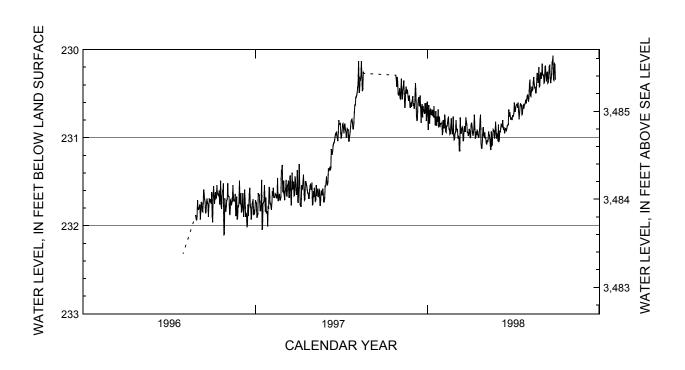
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,715.7 ft above sea level. Measuring point: Top of steel casing, 2.4 ft above land-surface datum.

REMARKS.—Available records are good.

PERIOD OF RECORD.—July 1996 to September 1998.

EXTREMES.—Highest daily water level, 230.13 ft below land-surface datum, Aug. 8, 14, 1997; lowest daily water level, 232.32 ft (estimated) below land-surface datum, July 31, 1996.



SITE NUMBER 70—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												231.80
2												231.82
3												231.80
4												231.79
5												231.76
6												231.93
7												231.84
8												231.73
9												231.75
10												231.83
11												231.84
12												231.74
13												231.59
14												231.63
15												231.70
16												231.73
17												231.86
18												231.84
19												231.74
20												231.69
21												231.74
22												231.76
23												231.90
24												231.78
25												231.69
26												231.73
27											231.88	231.73
28											231.92	231.70
29											231.94	231.75
30											231.90	231.62
31										e232.32	231.71	
31										2232.32	231.71	
LOW										232.32	231.94	231.93
2011										252.52	201.01	251.55

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	231.89 231.96 231.66 231.55 231.64	231.71 231.70 231.52 231.66 231.67	231.63 231.85 231.83 231.75 231.63	231.71 231.74 231.74 231.91 231.89	231.76 231.74 231.79 231.82 231.73	231.62 231.49 231.65 231.71 231.61	231.72 231.74 231.50 231.30 231.57	231.51 231.77 231.75 231.61 231.67	231.44 231.52 231.54 231.50 231.35	230.95 231.01 230.98 230.93 230.85	230.63 230.54 230.54 230.52 230.49	
6 7 8 9 10	231.75 231.67 231.62 231.69 231.68	231.67 231.86 231.88 231.71 231.70	231.79 231.90 231.80 231.59 231.69	231.87 231.63 231.65 231.65 231.73	231.61 231.66 231.57 231.68 231.68	231.59 231.48 231.65 231.67 231.54	231.76 231.78 231.78 231.54 231.59	231.57 231.66 231.72 231.71 231.54	231.38 231.35 231.34 231.37 231.34	230.84 230.89 230.95 230.86 230.84	230.43 230.38 230.13 230.49 230.48	
11 12 13 14 15	231.54 231.64 231.64 231.66 231.66	231.77 231.73 231.72 231.54 231.66	231.90 231.86 231.87 232.02 231.98	231.83 231.83 231.73 231.48 232.04	231.68 231.64 231.65 231.65 231.69	231.54 231.49 231.68 231.68 231.44	231.58 231.49 231.42 231.58 231.71	231.66 231.58 231.60 231.67 231.67	231.13 231.19 231.19 231.15 231.09	230.91 230.93 230.99 230.99 230.90	230.33 230.34 230.30 230.13 230.32	
16 17 18 19 20	231.60 231.76 231.70 231.49 231.77	231.72 231.72 231.71 231.64 231.89	231.76 231.89 231.78 231.64 231.57	232.04 231.75 231.74 231.72 231.54	231.65 231.46 231.72 231.71 231.66	231.43 231.67 231.77 231.50 231.40	231.70 231.50 231.50 231.53 231.55	231.58 231.60 231.77 231.77 231.64	231.06 231.06 231.03 230.99 230.95	230.91 230.91 231.04 231.04 230.98	230.47 230.45 230.25 230.27	
21 22 23 24 25	231.81 231.67 231.60 231.60 231.52	231.87 231.67 231.93 231.91 231.77	231.77 231.79 231.93 231.86 231.75	231.69 231.84 231.68 231.85 231.84	231.64 231.71 231.71 231.67 231.37	231.59 231.52 231.50 231.66 231.65	231.59 231.63 231.63 231.69 231.69	231.60 231.65 231.65 231.58 231.64	230.97 230.93 230.98 231.01 231.04	230.94 230.88 230.82 230.80 230.79	 	
26 27 28 29 30 31	232.11 232.09 231.69 231.78 231.84 231.78	231.79 231.73 231.49 231.73 231.76	231.73 231.70 231.88 231.82 231.87 231.80	231.84 232.01 231.78 231.81 231.56 231.58	231.37 231.31 231.61 	231.44 231.48 231.59 231.65 231.61 231.37	231.60 231.54 231.53 231.59 231.59	231.73 231.73 231.69 231.55 231.55 231.50	230.94 230.80 230.85 230.85 230.84	230.83 230.90 230.90 230.83 230.71 230.63	 	
LOW	232.11	231.93	232.02	232.04	231.82	231.77	231.78	231.77	231.54	231.04	230.63	

e Estimated

270

SITE NUMBER 70—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		230.52	230.53	230.59	230.83	230.95	230.92	230.98	230.85	230.75	230.53	230.29
2		230.50	230.64	230.75	230.97	230.94	231.00	230.99	231.05	230.75	230.51	230.16
3		230.44	230.61	230.91	230.93	230.80	231.00	230.94	231.02	230.76	230.55	230.28
4		230.55	230.67	230.63	230.80	230.90	230.86	231.00	230.92	230.72	230.59	230.29
5		230.56	230.64	230.80	230.89	230.92	230.83	231.00	230.94	230.60	230.54	230.29
6		230.44	230.51	230.84	230.89	230.90	230.87	231.06	230.89	230.70	230.39	230.38
7		230.33	230.38	230.69	230.74	231.01	230.94	231.07	230.85	230.70	230.34	230.37
8		230.56	230.51	230.68	230.80	230.98	230.98	231.03	230.86	230.65	230.52	230.20
9		230.56	230.75	230.74	230.93	231.00	230.94	231.05	230.88	230.63	230.53	230.18
10		230.45	230.81	230.74	230.94	231.15	230.90	231.02	230.80	230.62	230.47	230.29
11		230.42	230.79	230.68	230.87	231.15	230.74	230.93	230.88	230.62	230.42	230.36
12		230.35	230.62	230.75	230.87	230.77	230.90	230.97	230.91	230.66	230.46	230.27
13		230.50	230.56	230.69	230.83	230.95	231.01	230.97	230.88	230.60	230.45	230.25
14		230.66	230.54	230.77	230.78	230.95	230.99	231.02	230.95	230.70	230.37	230.38
15		230.65	230.64	230.64	230.77	230.90	230.93	231.10	230.93	230.79	230.31	230.37
16		230.48	230.64	230.77	230.91	230.88	230.97	231.14	230.89	230.73	230.39	230.27
17		230.42	230.52	230.76	230.90	230.90	230.92	230.93	230.91	230.65	230.44	230.19
18		230.50	230.64	230.86	230.96	231.04	230.93	231.09	230.92	230.61	230.42	230.18
19		230.46	230.83	230.70	230.95	231.02	230.98	231.08	230.89	230.63	230.49	230.32
20		230.47	230.66	230.86	230.87	230.93	231.00	230.97	230.86	230.63	230.49	230.38
21		230.53	230.62	230.86	230.78	230.87	230.98	230.91	230.86	230.74	230.40	230.33
22		230.58	230.77	230.76	230.91	230.93	230.91	230.92	230.85	230.73	230.27	230.28
23		230.54	230.64	230.82	230.96	230.93	230.80	230.92	230.68	230.64	230.27	230.14
24		230.52	230.69	230.68	230.94	230.77	230.74	231.01	230.76	230.63	230.37	230.13
25		230.65	230.69	230.87	230.76	230.82	231.06	230.96	230.71	230.67	230.37	230.07
26	230.29	230.66	230.73	230.86	230.97	230.85	231.12	230.82	230.75	230.63	230.20	230.34
27	230.32	230.60	230.61	230.76	231.02	230.94	231.12	230.90	230.79	230.62	230.42	230.35
28	230.42	230.65	230.72	230.88	231.01	230.94	231.03	231.01	230.79	230.61	230.41	230.16
29	230.31	230.60	230.61	230.84		230.98	230.90	230.96	230.77	230.57	230.29	230.17
30	230.36	230.58	230.81	230.84		230.96	230.88	230.97	230.80	230.61	230.26	230.34
31	230.50		230.71	230.84		230.90		231.04		230.57	230.33	
LOW	230.50	230.66	230.83	230.91	231.02	231.15	231.12	231.14	231.05	230.79	230.59	230.38

SITE NUMBER FROM LOCATION MAP.—71.

COUNTY.—Fall River.

LOCAL WELL NUMBER.—9S6E3ACAD.

SITE ID (STATION NUMBER).—431753103233601.

OTHER IDENTIFIERS.—FR-95C and Angostura.

LOCATION.—Lat 43°17′55.4″, long 103°23′33.8″, in SE¹/4NE¹/4SW¹/4NE¹/4 sec. 3, T. 9S., R.6 E., Hydrologic Unit 10120106, about 8 mi southeast of Hot Springs. Owner: South Dakota Game, Fish and Parks.

AQUIFER.—Fall River (Inyan Kara).

WELL CHARACTERISTICS.—Drilled unused production well, 1,600 ft deep with 501 ft of 7-in. steel casing; 5.5-in. steel casing from 501 to 1432 ft; perforated 4.75-in. casing to 1,560 ft. Blank casing from 1,560 to 1,600 ft.

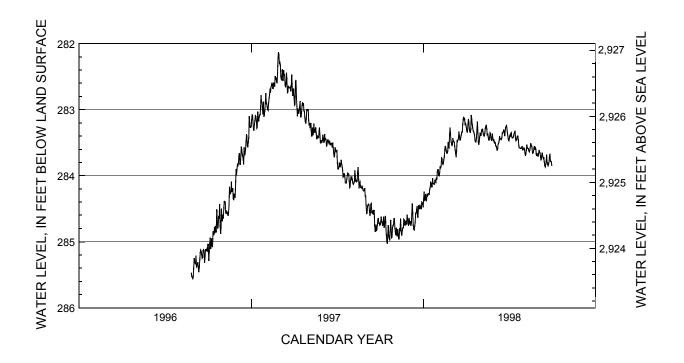
INSTRUMENTATION.—Electronic data logger with pressure transducer.

DATUM.—Elevation of land-surface datum is 3,209.1 ft above sea level. Measuring point: Top of steel casing, 1.6 ft above land-surface datum.

REMARKS.—Available records good.

PERIOD OF RECORD.—August 1996 to September 1998.

EXTREMES.—Highest daily water level, 282.13 ft below land-surface datum, Feb. 27, 1997; lowest daily water level, 285.56 ft below land-surface datum, Aug. 29, 1996.



SITE NUMBER 71—Continued

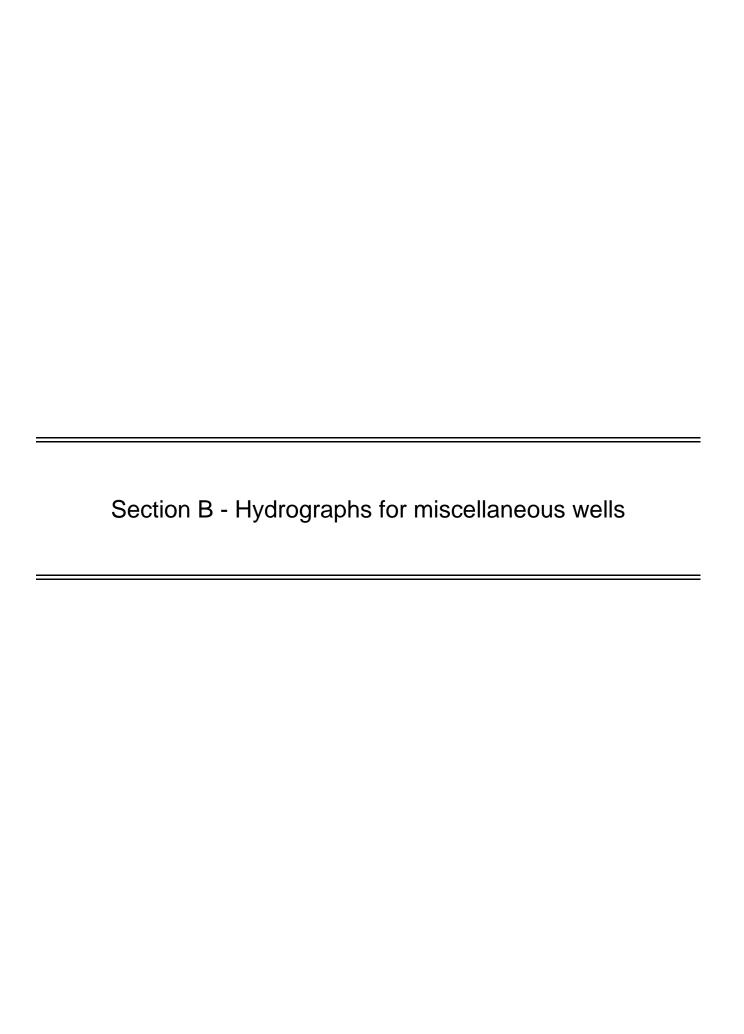
SITE	NUMBE	R 71—C	Continue	d								
		WATER LEVI	EL, IN FE	ET BELOW	LAND-SURF	ACE DATUM		EAR OCTOB	ER 1995 T	O SEPTEMB	ER 1996	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												285.25
2												285.32
3 4												285.32 285.33
5												285.21
_												205 20
6 7												285.38 285.37
8												285.33
9 10												285.31 285.40
10												203.40
11												285.46
12 13												285.38 285.27
14												285.16
15												285.13
16												285.15
17												285.19
18 19												285.25 285.24
20												285.13
21 22												285.12 285.14
23												285.32
24												285.25
25												285.12
26											285.47	285.12
27 28											285.53 285.54	285.13 285.11
29											285.56	285.15
30											285.53	285.04
31											285.41	
LOW											285.56	285.46
		מאיינט ז ביווו	ים או די	ביד סבו ∩ש	LAND-SURF	ACE DATIM	WATED V	END OCTOR	FD 1006 T	·^ CEDTEMD	FD 1007	
		WILLER DEVI	, IN I	BI BBBON		AILY LOWES		Brit GC10B	ER 1990 1	O DEL TEME	.dic 1557	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285.04	284.59	283.90	283.16	282.90	282.31	282.82	282.99	283.38	283.61	284.05	284.44
2	285.29	284.65	283.82	283.08	282.91	282.27	282.93	283.16	283.43	283.81	284.03	284.58
3 4	285.15 285.03	284.49 284.39	283.86 283.80	283.08 283.20	282.96 283.00	282.33 282.50	282.92 282.58	283.24 283.20	283.50 283.48	283.90 283.90	284.07 284.12	284.56 284.46
5	284.94	284.39	283.70	283.30	283.01	282.54	282.55	283.28	283.37	283.87	284.13	284.44
_	00F 11	284.41	283.66	202 22	202 00	202 55	202 01	202 21	202 45	000 01	204 11	204 42
6 7	285.11 285.07	284.41	283.83	283.32 283.22	282.90 282.83	282.55 282.39	282.81 282.96	283.21 283.21	283.45 283.44	283.81 283.82	284.11 284.09	284.43 284.44
8	284.95	284.58	283.83	283.16	282.78	282.43	283.10	283.40	283.45	283.87	283.92	284.54
9 10	285.06 285.08	284.54 284.55	283.69 283.56	283.09 283.10	282.68 282.74	282.56 282.40	282.98 283.04	283.40 283.27	283.56 283.53	283.83 283.76	284.00 284.09	284.61 284.55
10	203.00	204.33	203.30	203.10	202.74	202.40	203.04	203.27	203.33	203.70	204.09	204.33
11	284.85	284.57	283.60	283.17	282.65	282.47	283.06	283.39	283.47	283.82	284.06	284.43
12 13	284.85 284.90	284.61 284.57	283.67 283.70	283.28 283.27	282.64 282.59	282.47 282.62	283.02 282.96	283.35 283.21	283.45 283.49	283.86 283.91	284.09 284.08	284.42 284.56
14	284.78	284.45	283.75	283.03	282.62	282.66	282.87	283.31	283.51	284.02	283.94	284.57
15	284.87	284.17	283.83	283.13	282.68	282.60	283.11	283.35	283.47	284.01	283.87	284.54
16	284.76	284.25	283.57	283.18	282.68	282.44	283.11	283.29	283.49	283.96	284.06	284.52
17	284.83	284.28	283.69	283.11	282.59	282.61	283.04	283.27	283.53	283.99	284.19	284.59
18 19	284.86 284.51	284.24 284.09	283.67 283.60	283.08 283.08	282.63 282.65	282.75 282.72	282.94 282.89	283.36 283.44	283.52 283.51	284.03 284.11	284.10 284.09	284.52 284.75
20	284.65	284.24	283.48	282.96	282.49	282.64	282.94	283.44	283.52	284.11	284.18	284.85
0.1												
21 22	284.80 284.76	284.24 284.19	283.37 283.41	282.78 282.89	282.53 282.51	282.66 282.67	282.90 283.02	283.40 283.41	283.57 283.50	284.11 284.05	284.16 284.18	284.83 284.74
23	284.61	284.35	283.55	282.90	282.58	282.67	283.02	283.43	283.57	283.99	284.19	284.84
24	284.65	284.37	283.57	282.99	282.60	282.66	283.12	283.33	283.65	283.96	284.17	284.81 284.74
25	284.43	284.27	283.49	283.07	282.45	282.72	283.18	283.27	283.72	283.97	284.20	204./4
26	284.76	284.33	283.43	282.88	282.23	282.65	283.21	283.40	283.69	283.98	284.23	284.66
27 28	284.88 284.79	284.33 284.09	283.10 283.20	283.11 283.08	282.13 282.17	282.47 282.61	283.14 283.00	283.51 283.49	283.57 283.60	284.08 284.18	284.23 284.22	284.64 284.73
29	284.50	283.90	283.27	283.01		282.79	283.00	283.46	283.64	284.17	284.19	284.71
30	284.63	283.99	283.27	282.90		282.76	283.01	283.49	283.64	284.08	284.31	284.75
31	284.69		283.26	282.75		282.68		283.47		284.01	284.31	

LOW 285.29 284.65 283.90 283.32 283.01 282.79 283.21 283.51 283.72 284.18 284.31 284.85

SITE NUMBER 71—Continued

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY LOWEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284.74	284.80	284.64	284.36	283.91	283.51	283.24	283.35	283.49	283.47	283.58	283.71
2	284.70	284.86	284.68	284.24	283.99	283.55	283.29	283.39	283.50	283.43	283.58	283.67
3	284.62	284.90	284.74	284.37	284.00	283.52	283.34	283.39	283.55	283.39	283.60	283.61
4	284.69	284.79	284.69	284.36	283.96	283.43	283.34	283.31	283.55	283.40	283.66	283.64
5	284.71	284.90	284.76	284.28	283.87	283.48	283.22	283.32	283.58	283.36	283.70	283.65
6	284.76	284.92	284.71	284.38	283.88	283.48	283.14	283.29	283.62	283.35	283.67	283.71
7	284.72	284.81	284.57	284.38	283.86	283.49	283.19	283.34	283.60	283.41	283.61	283.77
8	284.62	284.87	284.42	284.28	283.73	283.55	283.29	283.38	283.52	283.43	283.53	283.74
9	284.79	284.96	284.56	284.28	283.74	283.61	283.33	283.40	283.51	283.43	283.58	283.68
10	284.77	284.96	284.75	284.30	283.82	283.66	283.35	283.40	283.48	283.42	283.59	283.65
11	284.64	284.81	284.81	284.28	283.83	283.72	283.30	283.35	283.40	283.40	283.59	283.72
12	284.61	284.82	284.82	284.27	283.81	283.63	283.08	283.28	283.45	283.36	283.62	283.74
13	284.80	284.65	284.77	284.28	283.75	283.46	283.14	283.25	283.44	283.34	283.64	283.72
14	284.90	284.83	284.71	284.20	283.71	283.48	283.22	283.23	283.44	283.32	283.62	283.79
15	284.99	284.90	284.57	284.18	283.60	283.45	283.27	283.29	283.45	283.43	283.58	283.85
16	285.03	284.90	284.57	284.10	283.55	283.44	283.32	283.39	283.42	283.47	283.51	283.87
17	284.91	284.82	284.52	284.11	283.58	283.33	283.33	283.36	283.35	283.46	283.53	283.83
18	284.75	284.79	284.46	284.17	283.63	283.40	283.36	283.41	283.34	283.43	283.54	283.78
19	284.91	284.79	284.62	284.17	283.66	283.46	283.38	283.46	283.34	283.40	283.58	283.68
20	284.95	284.66	284.64	284.04	283.66	283.46	283.46	283.46	283.30	283.40	283.66	283.79
21	284.98	284.67	284.45	284.12	283.63	283.41	283.49	283.43	283.35	283.46	283.66	283.83
22	284.85	284.75	284.50	284.12	283.49	283.38	283.49	283.35	283.40	283.55	283.63	283.85
23	284.67	284.75	284.50	284.13	283.57	283.34	283.43	283.36	283.34	283.58	283.58	283.83
24	284.80	284.69	284.44	284.13	283.58	283.34	283.29	283.43	283.27	283.58	283.55	283.79
25	284.94	284.69	284.47	284.06	283.38	283.22	283.18	283.47	283.26	283.58	283.61	283.71
26 27 28 29 30 31	284.93 284.79 284.75 284.75 284.65 284.65	284.74 284.59 284.65 284.71 284.76	284.50 284.50 284.40 284.41 284.43 284.48	284.09 284.10 284.03 284.06 283.94 283.91	283.27 283.36 283.47 	283.14 283.11 283.15 283.14 283.22 283.21	283.36 283.50 283.53 283.49 283.42	283.43 283.36 283.45 283.48 283.45 283.50	283.23 283.30 283.36 283.41 283.46	283.59 283.59 283.57 283.55 283.61 283.61	283.58 283.60 283.67 283.70 283.67 283.68	283.67 283.78 283.78 283.79 283.85
LOW	285.03	284.96	284.82	284.38	284.00	283.72	283.53	283.50	283.62	283.61	283.70	283.87



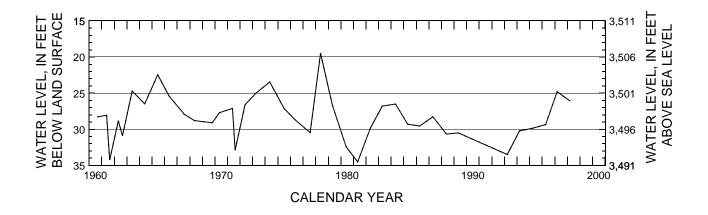
LOCAL WELL NUMBER.—7N1E26ACD.

SITE ID.—443215103573001.

COUNTY.—Lawrence.

WELL CHARACTERISTICS.—Artesian stock well in the Minnelusa Formation. Diameter, 4 in.; depth, 270 ft; opening, open end; measuring point, top of casing, 1.00 ft above land-surface datum; land-surface datum, about 3,526 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 19.49 ft, May 24, 1978; lowest, 34.52 ft, May 5, 1981.



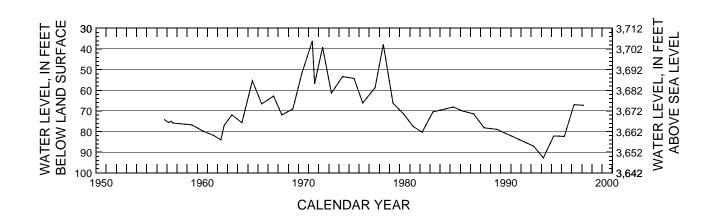
LOCAL WELL NUMBER.—6N2E23BBBA.

SITE ID.—442820103503501.

COUNTY.—Lawrence.

WELL CHARACTERISTICS.—Unused artesian well in the Minnelusa Formation. Diameter, 8 in.; depth, 415 ft (measured 264 ft, Sept. 25, 1956); opening, unknown; measuring point, hole in top of cap, 1.50 ft above land-surface datum; land-surface datum, about 3,742 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 36.07 ft, May 16, 1971; lowest, 92.72 ft, Mar. 17, 1994.



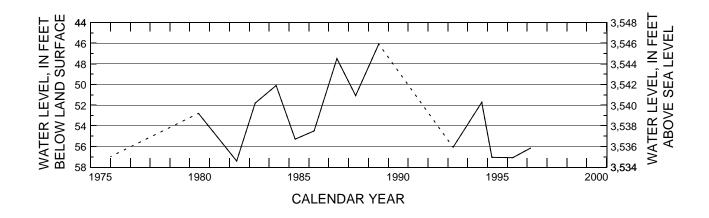
LOCAL WELL NUMBER.—6N2E10BCBB.

SITE ID.—443008103514701.

COUNTY.—Lawrence.

WELL CHARACTERISTICS.—Artesian domestic well in the Spearfish Formation. Diameter, 6.0 in.; depth, 75 ft; opening, unknown; measuring point, 5.5 ft above land-surface datum; land-surface datum, about 3,592 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 46.08 ft, July 11, 1989; lowest, 57.42 ft, May 13, 1982.



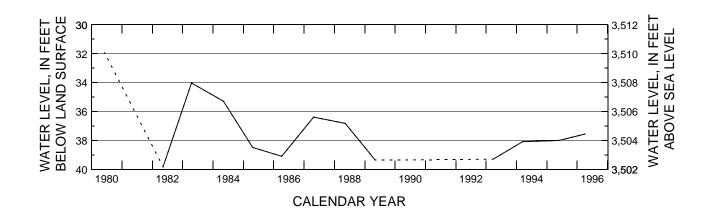
LOCAL WELL NUMBER.—6N2E4BDD.

SITE ID.—443044103525801.

COUNTY.—Lawrence.

WELL CHARACTERISTICS.—Artesian stock well in the Minnekahta Limestone. Diameter, 6.0 in.; depth, 70 ft; opening, perforated 55-70 ft; measuring point, top of casing, 0.50 ft above land-surface datum; land-surface datum, about 3,542 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 31.91 ft, June 4, 1980; lowest, 39.84 ft, May 11, 1982.



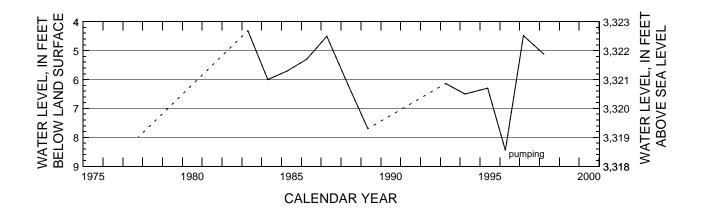
LOCAL WELL NUMBER.—6N5E19AAAC.

SITE ID.—442804103330401.

COUNTY.—Meade.

WELL CHARACTERISTICS.—Artesian domestic well in the Fall River Formation. Diameter, 4.0 in.; depth, 285 ft; opening, perforated 205-285 ft; measuring point, 1.00 ft above land-surface datum; land-surface datum, about 3,327 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 4.31 ft, Apr. 21, 1983; lowest, 8.45 ft, Apr. 12, 1996 (affected by recent pumping).



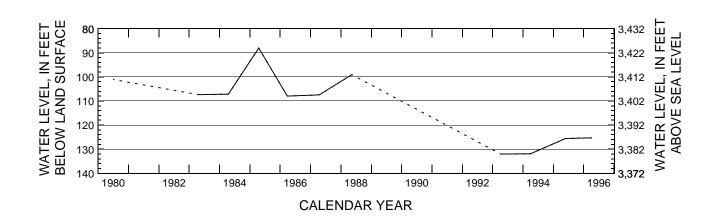
LOCAL WELL NUMBER.—3N6E23DCB3.

SITE ID.—441155103222501.

COUNTY.—Meade.

WELL CHARACTERISTICS.—Artesian well in the Spearfish Formation. Diameter, 6.62 in.; depth, 135 ft; opening, perforated 110-120 ft; measuring point, 0.70 ft above land-surface datum; land-surface datum, about 3,512 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 88.00 ft, Apr. 18, 1985; lowest, 132.06 ft, Apr. 9, 1993.



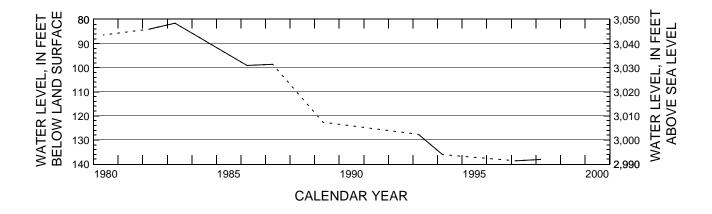
LOCAL WELL NUMBER.—2N8E28BCB.

SITE ID.—440622103101101.

COUNTY.—Pennington.

WELL CHARACTERISTICS.—Industrial supply well in the Lakota Formation. Diameter, unknown; depth, 1,648 ft; opening, unknown; measuring point, 0.00 ft at land-surface datum; land-surface datum, about 3,130 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 81.57 ft, Apr. 27, 1983; lowest, 138.67 ft, Mar. 12, 1997.



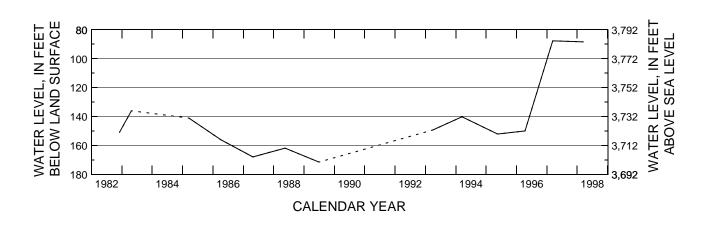
LOCAL WELL NUMBER.—1N7E14CBBD.

SITE ID.—440243103150001.

COUNTY.—Pennington.

WELL CHARACTERISTICS.—Artesian well (usage unknown) in the Sundance Formation. Diameter, unknown; depth, unknown; opening, unknown; measuring point, unknown; land-surface datum, about 3,872 ft above sea level. Site modifications may have affected well characteristics after 1996.

EXTREMES FOR PERIOD OF RECORD.—Highest, 87.68 ft, Mar. 12, 1997; lowest, 171.60 ft, June 30, 1989.



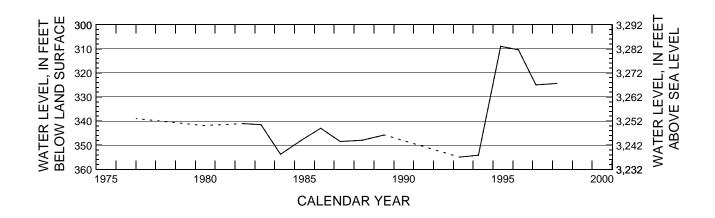
LOCAL WELL NUMBER.—3S7E23DDAC.

SITE ID.—434611103142501.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Artesian stock well in the Lakota Formation. Diameter, 5.0 in.; depth, 355 ft; opening, perforated 300-355 ft; measuring point, 0.0 ft at land-surface datum; land-surface datum, about 3.592 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 309.0 ft, May 23, 1995; lowest, 355.0 ft, Apr. 29, 1993.



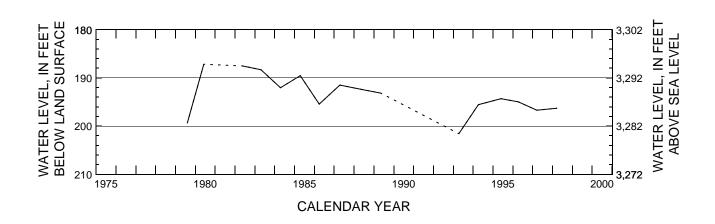
LOCAL WELL NUMBER.—3S7E35DBB.

SITE ID.—434443103145601.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Artesian well (usage unknown) in the Lakota Formation. Diameter, unknown; depth, 345 ft; opening, unknown; measuring point, 0.00 ft on Apr. 15, 1987; land-surface datum, about 3,482 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 187.17 ft, June 5, 1980; lowest, 201.59 ft, Apr. 14, 1993.



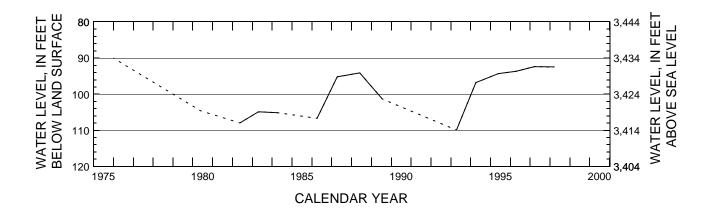
LOCAL WELL NUMBER.—3S8E17BACB.

SITE ID.—434737103113301.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Unused artesian well in the Greenhorn Formation. Diameter, 8.62 in.; depth, 428 ft; opening, unknown; measuring point, 0.90 ft above land-surface datum; land-surface datum, about 3,524 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 90 ft, 1976, reported; lowest, 109.93 ft, Apr. 15, 1993.



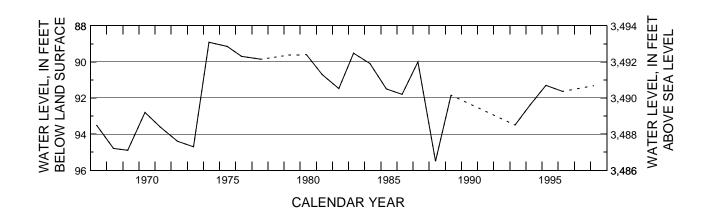
LOCAL WELL NUMBER.—4S7E28DBBC.

SITE ID.—434016103171001.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Artesian stock well in the Fall River Formation. Diameter, 6 in.; depth, 250 ft; opening, unknown; measuring point, top of well cover, 1.5 ft above land-surface datum (since 1973); land-surface datum, about 3,582 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 88.92 ft, May 8, 1974; lowest, 95.50 ft, May 25, 1988.



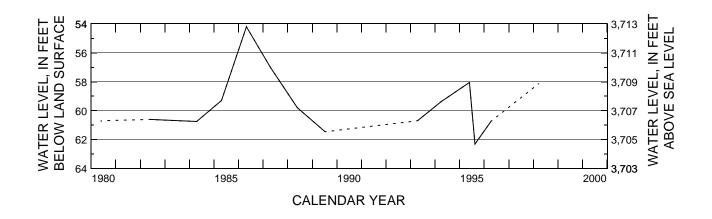
LOCAL WELL NUMBER.—5S6E12DAAD.

SITE ID.—433740103202801.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Unused well in the Lakota Formation. Diameter, 6.0 in.; depth, 220 ft; opening, unknown; measuring point, top of casing, 0.52 ft above land-surface datum on July 12, 1989; land-surface datum, about 3,767 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 54.20 ft, Apr. 28, 1986; lowest, 62.31 ft. Aug. 18, 1995.



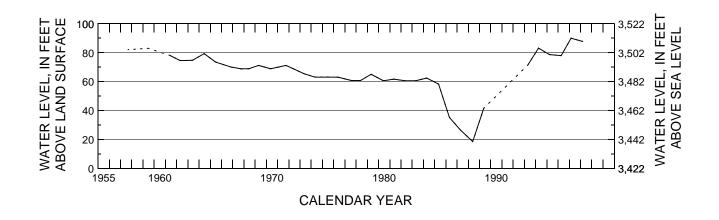
LOCAL WELL NUMBER.—6S6E15ABDD.

SITE ID.—433150103230501.

COUNTY.—Custer.

WELL CHARACTERISTICS.—Artesian domestic well in the Madison Limestone. Diameter, 7 in.; depth, 939 ft; opening, perforated 929-939 ft and open end; measuring point, 0.4 ft below land-surface datum; land-surface datum, about 3,422 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, +90.00 ft, Mar. 1, 1997; lowest, +18.46 ft, May 25, 1988.



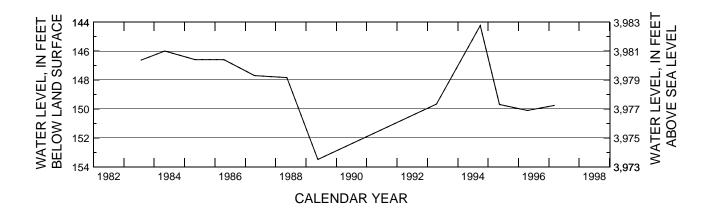
LOCAL WELL NUMBER.—7S2E3DAAB.

SITE ID.—432813103512701.

COUNTY.—Fall River.

WELL CHARACTERISTICS.—Unused well in the Sundance Formation. Diameter, 3.0 in.; depth, 220 ft; opening, unknown; measuring point, 0.0 ft at land-surface datum on Apr. 23, 1987; land-surface datum, about 4.127 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 144.23 ft, Sept. 29, 1994; lowest, 153.50 ft, May 23, 1989.



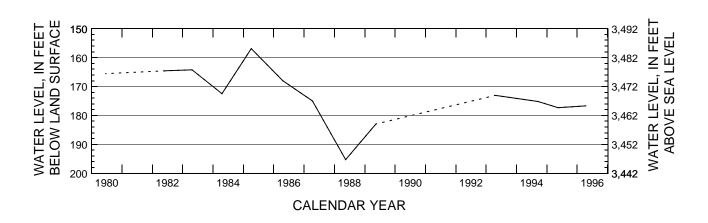
LOCAL WELL NUMBER.—7S5E12CDBB.

SITE ID.—432704103282801.

COUNTY.—Fall River.

WELL CHARACTERISTICS.—Public supply well in the Spearfish Formation (previously published as Minnelusa Formation). Diameter, unknown; depth, 300 ft; opening, unknown; measuring point, 6.00 ft below land-surface datum; land-surface datum, about 3,642 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 156.90 ft, Apr. 7, 1985; lowest, 195.30 ft, May 16, 1988.



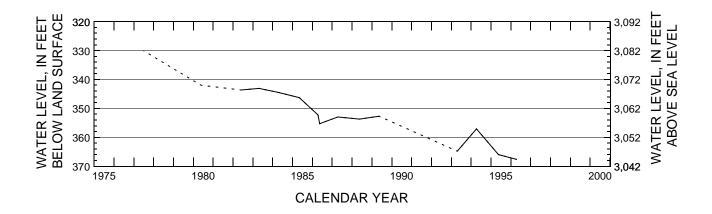
LOCAL WELL NUMBER.—7S7E6BBBC (formerly 7S6E1AAAD).

SITE ID.—432834103203301.

COUNTY.—Fall River.

WELL CHARACTERISTICS.—Artesian domestic well in the Fall River Formation. Diameter, 6.25 in.; depth, 640 ft; opening, perforated 607-640 ft; measuring point, 0.70 ft above land-surface datum; land-surface datum, about 3,412 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 330.0 ft, June 26, 1977; lowest, 367.68 ft, Apr. 19, 1996.



LOCAL WELL NUMBER: 8S2E20DACC.

SITE ID: 432015103535801.

COUNTY.—Fall River.

WELL CHARACTERISTICS.—Artesian stock well in the Lakota Formation. Diameter, 5 in.; depth, 410 ft; opening, open end; measuring point, top of casing, 0.6 ft above land-surface datum; land-surface datum, about 3,534 ft above sea level.

EXTREMES FOR PERIOD OF RECORD.—Highest, 22.69 ft, Mar. 1, 1957; lowest, 45.10 ft, Apr. 20, 1993.

