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Summary of Water-Surface-Elevation Data for 116 U.S. Geological Survey Lake and Reservoir Stations in Texas and Comparison to Data for Water Year 2006

Data Series 287

U.S. Department of the Interior
U.S. Geological Survey

Cover. Outlet works for station 08079700 Lake Alan Henry Reservoir near Justiceburg, Texas, February 18, 2005 (see page 26).

Summary of Water-Surface-Elevation Data for 116 U.S. Geological Survey Lake and Reservoir Stations in Texas and Comparison to Data for Water Year 2006

By William H. Asquith, Joseph Vrabel, and Meghan C. Roussel

Data Series 287

U.S. Department of the Interior
U.S. Geological Survey

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Conversion Factors

Multiply	By	To obtain
foot (ft)	0.3048	meter (m)

Horizontal and Vertical Datums

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).
Vertical coordinate information is referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

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Summary of Water-Surface-Elevation Data for 116 U.S. Geological Survey Lake and Reservoir Stations in Texas and Comparison to Data for Water Year 2006

By William H. Asquith, Joseph Vrabel, and Meghan C. Roussel

Abstract

The U.S. Geological Survey (USGS), in cooperation with numerous Federal, State, municipal, and local agencies, currently (2007) collects data for more than 120 lakes and reservoirs in Texas through a real-time, data-collection network. The National Water Information System that processes and archives water-resources data for the Nation provides a central source for retrieval of real-time as well as historical data. This report provides a brief description of the real-time, data-collection network and graphically summarizes the period-of-record daily mean water-surface elevations for 116 active and discontinued USGS lake and reservoir stations in Texas. The report also graphically depicts selected statistics (minimum, maximum, and mean) of daily mean water-surface-elevation data. The data for water year 2006 are compared to the selected statistics.

Introduction

Water resources of Texas—rivers, lakes, and aquifers—supply drinking water, support industries, transport products, sustain wildlife and wildlife habitat, and provide Texans and visitors with recreational opportunities. These resources are vital to the long-term health of the citizenry of Texas and the stability of the Texas economy. Management of these resources is a complex task involving all levels of the private and public sector and a multitude of laws, regulations, and competing interests. Water resources management in turn requires monitoring, data archival and dissemination, and scientific investigation and research.

The U.S. Geological Survey (USGS), in cooperation with numerous Federal, State, municipal, and local agencies, collects basic hydrologic data, investigates specific water-resources problems, and conducts water-resources investigations and research. As of early 2007, the USGS operated at real-time status about 445 streamflow-gaging stations, 126 lake and reservoir stations, and 4 lake and reservoir water-quality platforms in Texas. Many additional stations have been operated in the past but now are discontinued.

The focus of this report is the daily mean water-surface-elevation data of USGS lake and reservoir stations in Texas. The USGS provides real-time data for a small number (less than about 10) of lake and reservoir sites[1] in Texas for other agencies. These stations are not considered here.

The report provides a graphical summary of the water-surface-elevation data for the periods of record for 116 lake and reservoir stations and provides a graphical comparison of the period-of-record data to water year 2006 data. A water year is defined as the 12-month period between October 1 and September 30. The

[1]07331500 U.S. Army Corps of Engineers (USCOE) Lake Texoma near Denison, Texas; 07335390 USCOE Pat Mayse Lake near Chicota, Texas; 08148000 Lower Colorado River Authority (LCRA) Lake Buchanan near Burnet, Texas; 08148100 LCRA Inks Lake near Kingsland, Texas; 08152500 LCRA Lake Lyndon B. Johnson near Marble Falls, Texas; 08154500 LCRA Lake Travis near Austin, Texas; 08154900 LCRA Lake Austin at Austin, Texas

Figure 1. Instrumentation over stilling well in room at U.S. Geological Survey station 08079700 Lake Alan Henry Reservoir near Justiceburg, Texas.

water year is designated by the calendar year in which it ends. Thus, the year ending September 30, 2006, is called the "2006 water year." The water-surface-elevation data are available from the USGS National Water Information System (NWIS) (U.S. Geological Survey, 2007).

The USGS has collected water-resources information for more than 100 years. In addition to current (2007) real-time stations, NWIS contains historical water-resources information (surface-water, groundwater, and water-quality data) for close to two million locations throughout the Nation. For discrete sites[2] as of January 31, 2007, NWIS for Texas includes data for 2,697 surface-water (stream) sites; 1,105 lake and reservoir sites; 891 estuary sites; 2,079 springs; and 15,931 wells. Much of these data are publicly available and can be accessed by way of the public interface to NWIS (NWISWeb, `http://water.usgs.gov/tx/nwis/`). The central retrieval characteristics of NWISWeb facilitate large data-mining activities such as those for daily mean streamflow in Texas by Asquith and others (2007a) for percentages of zero daily mean streamflow and Asquith and others (2007b) for annual daily mean streamflow statistics.

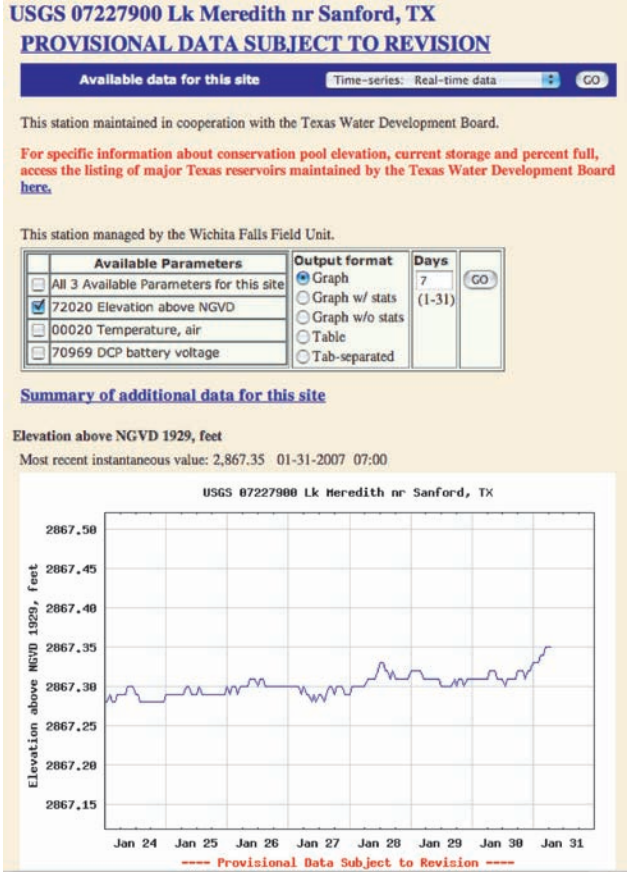

Figure 2. Example of real-time data for U.S. Geological Survey station 07227900 Lake Meredith near Sanford, Texas, during January 24–31, 2007.

At a typical real-time lake or reservoir station, water levels and additional site-specific properties[3] are recorded by a USGS data-collection platform (DCP) in a shelter or other structure on or near the dam (fig. 1). Currently (2007), DCPs transmit 15-minute to 1-hour data at either 1-hour or 4-hour intervals to a geostationary operational environmental satellite (GOES). An example of a real-time graph of water-surface elevation for a selected reservoir (`http://waterdata.usgs.gov/tx/nwis/uv/?site_no=07227900`) is shown in figure 2. After transmission from the lake or reservoir, the data are relayed through various telecommunication networks (fig. 3), delivered to an NWIS server for processing through data-quality

[2]The term "sites" refers to geographically distinct locations at which data were collected. Numerous sites within a given water body could exist for lakes, reservoirs, and estuaries.

[3]To suit the needs of cooperators, there could exist, by individual station, telecommunication capacity to transmit additional properties such as air temperature, humidity, wind speed and direction, or others.

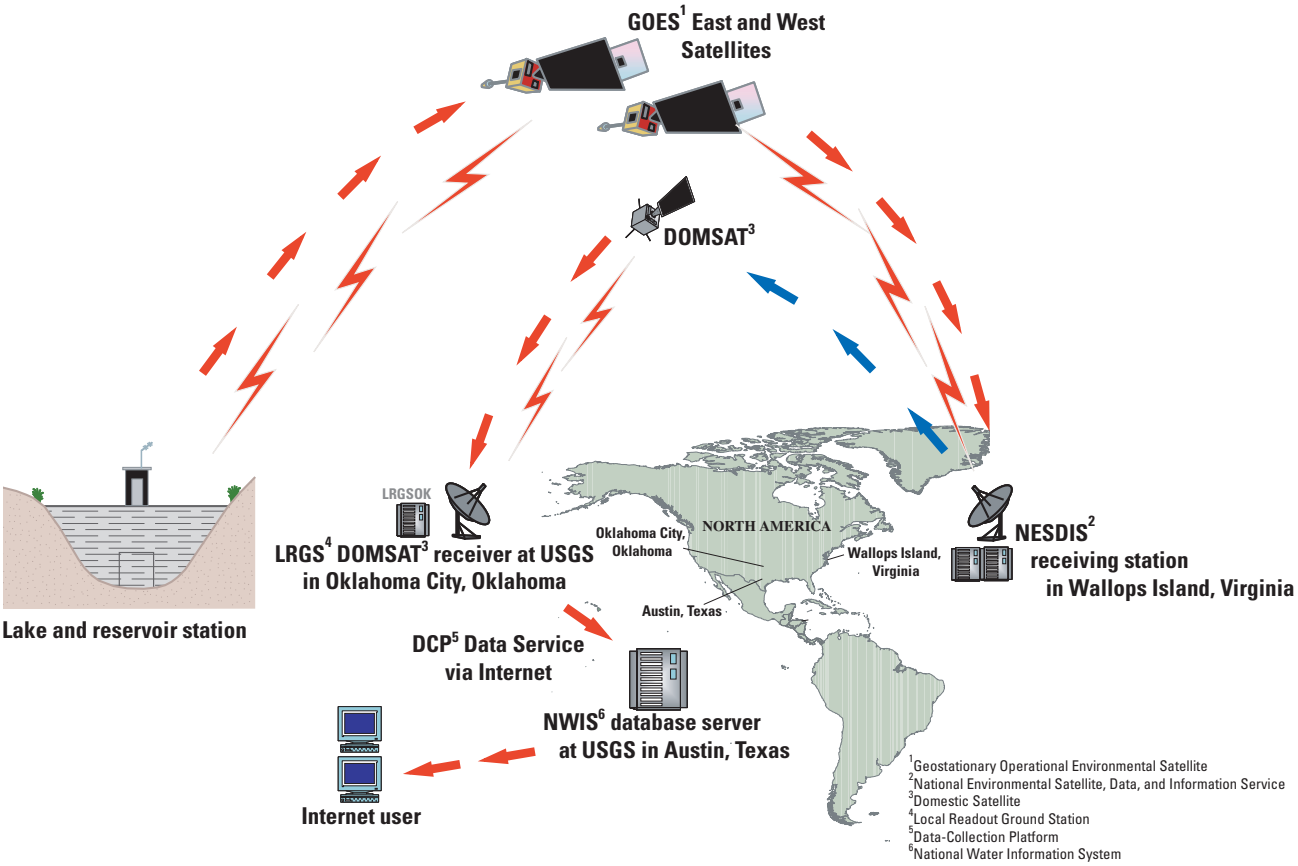

Figure 3. Schematic of data flow and critical communication nodes from data-collection platform to the Internet.

filters, and made available on USGS Internet servers. Considerable redundancy and security components are built into the telecommunications network, NWIS, and supporting computer systems.

Managers and other analysts often are interested in the relation between elevation and lake or reservoir contents (storage). The Texas Water Development Board is the agency with primary responsibility for surveying and providing storage information for the subject lakes and reservoirs of this report. Details of the hydrosurvey program currently (2007) are at `http://www.twdb.state.tx.us/assistance/lakesurveys/volumetricindex.asp`. Information on current statewide reservoir storage and specific details for individual reservoirs, such as reservoir conservation pool elevation are at `http://wiid.twdb.state.tx.us/ims/resinfo`.

Summary of Water-Surface-Elevation Data for Lake and Reservoir Stations in Texas

NWISWeb for Texas currently (early 2007) reports daily mean water-surface elevation above NVGD 29 data (elevation data) for 116 lakes and reservoirs. (A few additional lake and reservoir stations are in operation, but their data do not reflect elevation above NGVD 29.) The locations of the 116 stations are shown in figure 4. The station numbers, names, latitudes, and longitudes for the 116 stations are listed in table 1. For the portable document format version of this report, the table also provides a hyperlink to the index of station numbers. The index in turn provides a return hyperlink to the table.

Base from U.S. Geological Survey digital data
Texas State Mapping System Albers Projection NAD 83
Standard parallels 27.5° and 35°, central meridian -100

EXPLANATION

Lake or reservoir station

0 150 300 MILES

0 150 300 KILOMETERS

Figure 4. Locations of U.S. Geological Survey and lake and reservoir stations in Texas.

Summaries of water-surface-elevation data for the 116 stations are shown in figures 5–120 in downstream order (ascending station number). There are four figures to a page. The river basins of the stations in the lower figure of the left and right columns are shown in the running footer for each page. The summaries were produced by a combination of custom software and an integrated statistical computing environment (The MathWorks, 2006). For the portable document format version of this report, the index provides hyperlinks to the respective page containing the figure, and each page of four figures provides a return hyperlink to the index as well as a link to table 1. For convenient reference the river basin is shown in the index.

Each figure comprises a top and bottom graph. The top graph depicts the time series of data for the period of record available in NWIS through water year 2006. For this report, no distinction between approved and provisional data from NWISWeb is made. The bottom graph depicts the minimum, maximum, and mean for each day of the year for the period of record available in NWIS. Grey shading depicts elevations above (below) the maximum (minimum) values—historically unattained elevations for the period of record. Superimposed on the period-of-record daily statistics are the daily data for water year 2006. The three statistics require clarification. Consider station 07227900 (fig. 5 on page 11): There are six observations for January 1 (calendar years 2001–06). The mean of the six values for January 1 is the "mean daily mean elevation," and likewise, the maximum (or minimum) of the six values is the "maximum (or minimum) daily mean elevation."

The maximum and minimum daily mean elevations, and to a lesser degree the mean daily mean elevations, on the bottom graph can show unusual patterns (upward or downward spikes, plateaus, and inverted plateaus). These are attributed to the station-specific distribution of missing record. The general practice of the USGS is not to estimate water-level elevations when equipment malfunctions or other circumstances occur. One circumstance could be a decrease in water level that exposes water-level-sensing equipment to the atmosphere. A period of time passes before exposed equipment can be repositioned at a lower elevation and normal data collection resumed. For this report, gaps in the elevation record less than 31 days were linearly interpolated before the mean, maximum, and minimum daily statistics were computed. This linear interpolation is not seen in the top graph, which only shows the actual data available in NWIS.

Some spikes in the maximum statistics represent flood events during periods of abundant rainfall (see station 08105600 in fig. 94 on page 33). For a small number of short-record stations, such as station 08132000 (fig. 106 on page 36), the minimum, maximum, and mean statistics are identical so the bottom graph is entirely (or has a large time interval) grey shaded. This station was discontinued in 2001, so data for water year 2006 are not available. For the circumstance in which the full-graph grey shading is present, minor inconsistency with the illustrated explanation occurs because of masking of lines.

General observations are made for water year 2006. The figures show that the elevations for about 60 stations were at historical minimums at some time in water year 2006 relative to the period of record available in NWIS. Again referring to station 07227900 (fig. 5 on page 11), note the convergence of the daily mean elevation for water year 2006 and the grey region representing the minimum daily mean elevation. Conversely, the elevations for about 35 stations were at historical maximums, even if briefly, at some time during water year 2006 relative to the available period of record. For example, the elevations for station 07298100 (fig. 7 on page 11) were at historical maximums during October–December 2005 (first 3 months of water year 2006).

Finally, the collection, archival, and dissemination of water-level-elevation data for lakes and reservoirs in Texas by the USGS and implemented through NWIS allow for rapid and efficient summary and visualization of these data. The 116 summaries facilitate interpretations of historical characteristics and recent history of water resources in lakes and reservoirs in Texas.

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Table 1. Summary of 116 U.S. Geological Survey lake and reservoir stations in Texas.

Station number	Station name	Latitude	Longitude	Figure (page)
07227900	Lake Meredith near Sanford, Texas	35°42’38”	101°33’03”	5 (p. 11)
07233550	Palo Duro Reservoir near Spearman, Texas	36°21’42”	101°09’48”	6 (p. 11)
07298100	MacKenzie Reservoir near Silverton, Texas	34°32’43”	101°26’16”	7 (p. 11)
07299840	Greenbelt Lake near Clarendon, Texas	35°00’02”	100°53’40”	8 (p. 11)
07312000	Lake Kemp near Mabelle, Texas	33°45’30”	99°09’03”	9 (p. 12)
07312180	Lake Electra near Electra, Texas	33°58’30”	99°01’24”	10 (p. 12)
07312380	North Fork Buffalo Creek Reservoir near Iowa Park, Texas	33°59’12”	98°45’06”	11 (p. 12)
07314000	Lake Kickapoo near Archer City, Texas	33°39’47”	98°46’43”	12 (p. 12)
07314800	Lake Arrowhead near Henrietta, Texas	33°45’51”	98°22’17”	13 (p. 13)
07315600	Lake Nocona near Nocona, Texas	33°52’57”	97°39’09”	14 (p. 13)
07315950	Moss Lake near Gainesville, Texas	33°46’26”	97°12’50”	15 (p. 13)
07331700	Randell Lake near Denison, Texas	33°48’06”	96°34’48”	16 (p. 13)
07332610	Lake Bonham near Bonham, Texas	33°39’06”	96°07’48”	17 (p. 14)
07335600	Lake Crook near Paris, Texas	33°43’42”	95°34’00”	18 (p. 14)
07342495	Jim L. Chapman Lake near Cooper, Texas	33°20’00”	95°37’30”	19 (p. 14)
07343460	Lake Sulphur Springs near Sulphur Springs, Texas	33°10’04”	95°38’30”	20 (p. 14)
07344200	Wright Patman Lake near Texarkana, Texas	33°18’16”	94°09’38”	21 (p. 15)
07344484	Lake Cypress Springs near Mount Vernon, Texas	33°03’22”	95°08’21”	22 (p. 15)
07344488	Monticello Reservoir near Mount Pleasant, Texas	33°04’48”	95°02’36”	23 (p. 15)
07344489	Lake Bob Sandlin near Mount Pleasant, Texas	33°04’48”	95°00’07”	24 (p. 15)
07345900	Lake O’ The Pines near Jefferson, Texas	32°45’18”	94°29’57”	25 (p. 16)
08017400	Lake Tawakoni near Wills Point, Texas	32°48’31”	95°55’10”	26 (p. 16)
08017600	Lake Edgewood near Edgewood, Texas	32°42’30”	95°54’06”	27 (p. 16)
08018800	Lake Fork Reservoir near Quitman, Texas	32°48’48”	95°31’40”	28 (p. 16)
08019900	Lake Gladewater near Gladewater, Texas	32°33’00”	94°57’00”	29 (p. 17)
08022060	Martin Lake near Tatum, Texas	32°15’42”	94°34’23”	30 (p. 17)
08022200	Murvaul Lake near Gary, Texas	32°02’04”	94°25’15”	31 (p. 17)
08025350	Toledo Bend Reservoir near Burkeville, Texas	31°10’25”	93°33’57”	32 (p. 17)
08031290	Lake Athens near Athens, Texas	32°12’15”	95°43’30”	33 (p. 18)
08031400	Lake Palestine near Frankston, Texas	32°03’12”	95°26’12”	34 (p. 18)
08032200	Lake Jacksonville near Jacksonville, Texas	31°54’30”	95°18’35”	35 (p. 18)
08034000	Lake Tyler near Whitehouse, Texas	32°14’30”	95°10’33”	36 (p. 18)
08036700	Lake Nacogdoches near Nacogdoches, Texas	31°35’19”	94°49’31”	37 (p. 19)
08039300	Sam Rayburn Reservoir near Jasper, Texas	31°03’38”	94°06’21”	38 (p. 19)
08040000	B.A. Steinhagen Lake at Town Bluff, Texas	30°47’43”	94°10’48”	39 (p. 19)
08042820	Lost Creek Reservoir near Jacksboro, Texas	33°14’36”	98°07’11”	40 (p. 19)
08043000	Bridgeport Reservoir above Bridgeport, Texas	33°13’22”	97°49’54”	41 (p. 20)
08043700	Lake Amon G. Carter near Bowie, Texas	33°28’08”	97°51’56”	42 (p. 20)
08045000	Eagle Mountain Reservoir above Fort Worth, Texas	32°52’39”	97°28’29”	43 (p. 20)
08045400	Lake Worth above Fort Worth, Texas	32°47’21”	97°24’58”	44 (p. 20)
08045800	Lake Weatherford near Weatherford, Texas	32°46’21”	97°40’28”	45 (p. 21)

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Table 1. Summary of 116 U.S. Geological Survey lake and reservoir stations in Texas—Continued.

Station number	Station name	Latitude	Longitude	Figure (page)
08046500	Benbrook Lake near Benbrook, Texas	32°39'02"	97°26'54"	46 (p. 21)
08049200	Lake Arlington at Arlington, Texas	32°42'58"	97°11'32"	47 (p. 21)
08049800	Joe Pool Lake near Duncanville, Texas	32°38'36"	97°00'03"	48 (p. 21)
08050050	Mountain Creek Lake near Grand Prairie, Texas	32°43'55"	96°56'35"	49 (p. 22)
08051100	Ray Roberts Lake near Pilot Point, Texas	33°21'19"	97°02'59"	50 (p. 22)
08052800	Lewisville Lake near Lewisville, Texas	33°04'09"	96°57'51"	51 (p. 22)
08054500	Grapevine Lake near Grapevine, Texas	32°58'21"	97°03'22"	52 (p. 22)
08060500	Lavon Lake near Lavon, Texas	33°01'54"	96°28'56"	53 (p. 23)
08061550	Lake Ray Hubbard near Forney, Texas	32°48'00"	96°29'45"	54 (p. 23)
08062730	New Terrell City Lake near Terrell, Texas	32°43'42"	96°10'24"	55 (p. 23)
08063010	Cedar Creek Reservoir near Trinidad, Texas	32°14'35"	96°08'26"	56 (p. 23)
08063050	Navarro Mills Lake near Dawson, Texas	31°57'27"	96°41'21"	57 (p. 24)
08063600	Lake Waxahachie near Waxahachie, Texas	32°20'30"	96°48'18"	58 (p. 24)
08063700	Bardwell Lake near Ennis, Texas	32°15'00"	96°38'49"	59 (p. 24)
08064510	Halbert Lake near Corsicana, Texas	32°04'36"	96°24'20"	60 (p. 24)
08064550	Richland-Chambers Reservoir near Kerens, Texas	32°02'25"	96°12'23"	61 (p. 25)
08065330	Houston County Lake near Crockett, Texas	31°24'24"	95°36'06"	62 (p. 25)
08066190	Livingston Reservoir near Goodrich, Texas	30°38'00"	95°00'36"	63 (p. 25)
08067600	Lake Conroe near Conroe, Texas	30°21'30"	95°33'39"	64 (p. 25)
08072500	Barker Reservoir near Addicks, Texas	29°46'11"	95°38'49"	65 (p. 26)
08073000	Addicks Reservoir near Addicks, Texas	29°47'28"	95°37'24"	66 (p. 26)
08079700	Lake Alan Henry Reservoir near Justiceburg, Texas	33°03'46"	101°02'50"	67 (p. 26)
08080910	White River Reservoir near Spur, Texas	33°27'28"	101°05'01"	68 (p. 26)
08082800	Millers Creek Reservoir near Bomarton, Texas	33°24'32"	99°23'19"	69 (p. 27)
08083200	Lake Sweetwater near Sweetwater, Texas	32°26'19"	100°18'12"	70 (p. 27)
08083270	Lake Abilene near Buffalo Gap, Texas	32°14'04"	99°53'19"	71 (p. 27)
08083500	Fort Phantom Hill Reservoir near Nugent, Texas	32°35'46"	99°40'49"	72 (p. 27)
08084500	Lake Stamford near Haskell, Texas	33°03'45"	99°34'45"	73 (p. 28)
08086215	Lake Cisco near Cisco, Texas	32°26'16"	98°59'07"	74 (p. 28)
08086400	Hubbard Creek Reservoir near Breckenridge, Texas	32°49'53"	98°58'03"	75 (p. 28)
08086600	Lake Daniel near Breckenridge, Texas	32°38'52"	98°52'09"	76 (p. 28)
08088400	Lake Graham near Graham, Texas	33°08'04"	98°36'48"	77 (p. 29)
08088500	Possum Kingdom Lake near Graford, Texas	32°52'20"	98°25'32"	78 (p. 29)
08090300	Lake Palo Pinto near Santo, Texas	32°38'51"	98°16'08"	79 (p. 29)
08090700	Lake Mineral Wells near Mineral Wells, Texas	32°49'00"	98°02'30"	80 (p. 29)
08090880	Lake Granbury at State Highway 51 near Granbury, Texas	32°28'37"	97°47'17"	81 (p. 30)
08090900	Lake Granbury near Granbury, Texas	32°22'27"	97°41'20"	82 (p. 30)
08091730	Squaw Creek Reservoir near Glen Rose, Texas	32°18'00"	97°47'12"	83 (p. 30)
08091900	Lake Pat Cleburne near Cleburne, Texas	32°17'20"	97°24'54"	84 (p. 30)
08092500	Whitney Lake near Whitney, Texas	31°51'55"	97°22'18"	85 (p. 31)
08093350	Aquilla Lake above Aquilla, Texas	31°53'59"	97°12'09"	86 (p. 31)
08095550	Waco Lake near Waco, Texas	31°34'46"	97°11'51"	87 (p. 31)
08096490	Lake Brazos at Washington Street, Waco, Texas	31°33'40"	97°07'42"	88 (p. 31)

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Table 1. Summary of 116 U.S. Geological Survey lake and reservoir stations in Texas—Continued.

Station number	Station name	Latitude	Longitude	Figure (page)
08099000	Leon Reservoir near Ranger, Texas	32°21’49”	98°40’31”	89 (p. 32)
08099400	Proctor Lake near Proctor, Texas	31°58’07”	98°29’09”	90 (p. 32)
08102000	Belton Lake near Belton, Texas	31°06’22”	97°28’28”	91 (p. 32)
08104050	Stillhouse Hollow Lake near Belton, Texas	31°01’20”	97°31’57”	92 (p. 32)
08104650	Lake Georgetown near Georgetown, Texas	30°40’03”	97°43’38”	93 (p. 33)
08105600	Granger Lake near Granger, Texas	30°41’34”	97°19’34”	94 (p. 33)
08109900	Somerville Lake near Somerville, Texas	30°19’20”	96°31’32”	95 (p. 33)
08110300	Lake Mexia near Mexia, Texas	31°38’37”	96°34’43”	96 (p. 33)
08110460	Lake Limestone at Lake Limestone Marina near Farrar, Texas	31°23’04”	96°19’07”	97 (p. 34)
08110470	Lake Limestone near Marquez, Texas	31°19’30”	96°19’08”	98 (p. 34)
08118000	Lake J.B. Thomas near Vincent, Texas	32°35’35”	101°08’16”	99 (p. 34)
08123000	Lake Colorado City near Colorado City, Texas	32°20’41”	100°55’10”	100 (p. 34)
08123600	Champion Creek Reservoir near Colorado City, Texas	32°16’53”	100°51’30”	101 (p. 35)
08123755	Moss Creek Lake near Coahoma, Texas	32°14’37”	101°18’41”	102 (p. 35)
08123950	E.V. Spence Reservoir near Robert Lee, Texas	31°52’46”	100°31’01”	103 (p. 35)
08125500	Oak Creek Reservoir near Blackwell, Texas	32°02’26”	100°16’05”	104 (p. 35)
08131200	Twin Buttes Reservoir near San Angelo, Texas	31°22’55”	100°32’17”	105 (p. 36)
08132000	Lake Nasworthy near San Angelo, Texas	31°23’19”	100°28’41”	106 (p. 36)
08134500	O.C. Fisher Lake at San Angelo, Texas	31°29’04”	100°28’53”	107 (p. 36)
08136600	O.H. Ivie Reservoir near Voss, Texas	31°30’00”	99°40’05”	108 (p. 36)
08140770	Lake Coleman near Novice, Texas	32°01’48”	99°27’54”	109 (p. 37)
08141000	Hords Creek Lake near Valera, Texas	31°49’58”	99°33’38”	110 (p. 37)
08143000	Lake Brownwood near Brownwood, Texas	31°50’13”	99°00’13”	111 (p. 37)
08144900	Brady Creek Reservoir near Brady, Texas	31°08’17”	99°23’07”	112 (p. 37)
08164525	Lake Texana near Edna, Texas	28°53’30”	96°34’39”	113 (p. 38)
08167700	Canyon Lake near New Braunfels, Texas	29°52’07”	98°11’55”	114 (p. 38)
08177400	Coleto Creek Reservoir near Victoria, Texas	28°43’51”	97°09’53”	115 (p. 38)
08179500	Medina Lake near San Antonio, Texas	29°32’24”	98°56’01”	116 (p. 38)
08180010	Diversion Lake near Riomedina, Texas	29°30’36”	98°54’04”	117 (p. 39)
08206900	Choke Canyon Reservoir near Three Rivers, Texas	28°29’01”	98°14’44”	118 (p. 39)
08210500	Lake Corpus Christi near Mathis, Texas	28°02’17”	97°52’15”	119 (p. 39)
08410000	Red Bluff Reservoir near Orla, Texas	31°54’04”	103°54’35”	120 (p. 39)

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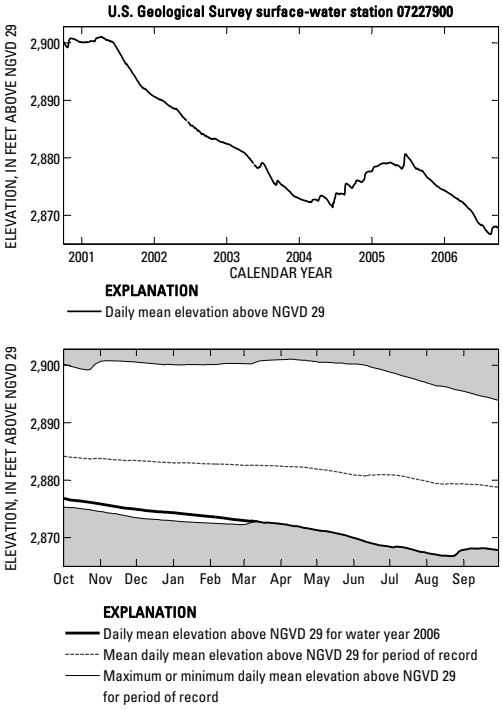


Figure 5. Water-surface-elevation data for U.S. Geological Survey station 07227900 Lake Meredith near Sanford, Texas.

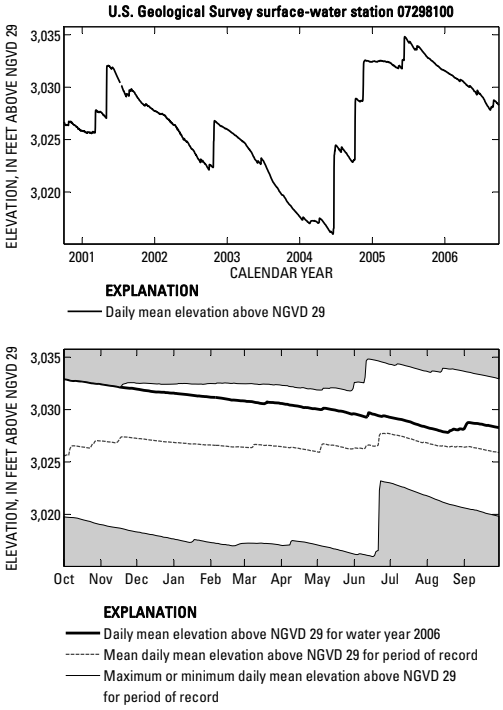


Figure 7. Water-surface-elevation data for U.S. Geological Survey station 07298100 MacKenzie Reservoir near Silverton, Texas.

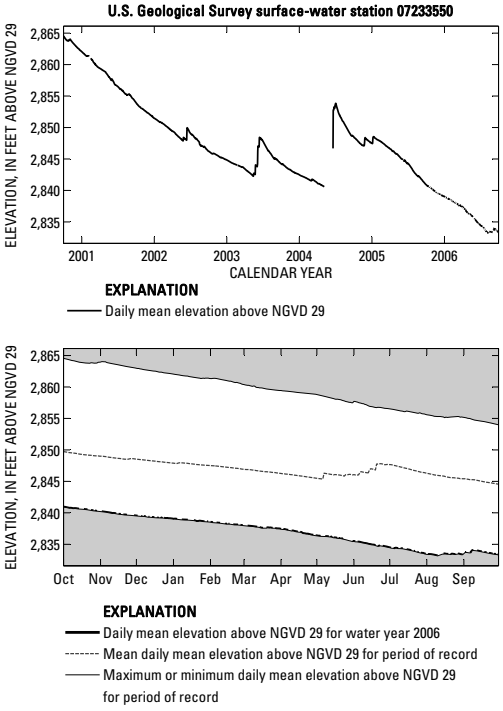


Figure 6. Water-surface-elevation data for U.S. Geological Survey station 07233550 Palo Duro Reservoir near Spearman, Texas.

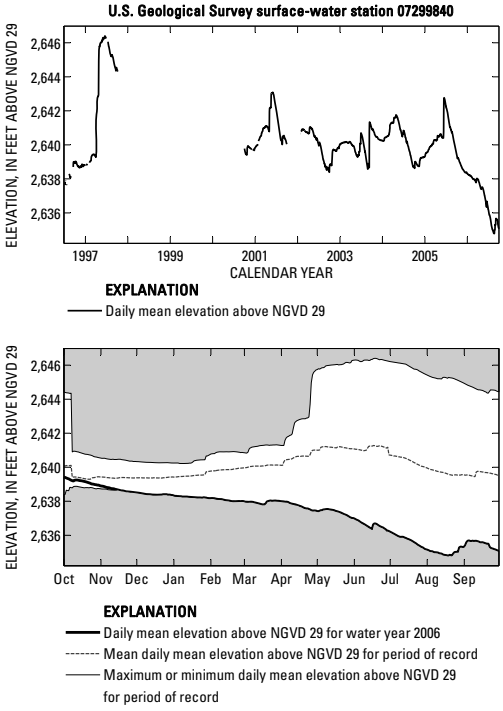


Figure 8. Water-surface-elevation data for U.S. Geological Survey station 07299840 Greenbelt Lake near Clarendon, Texas.

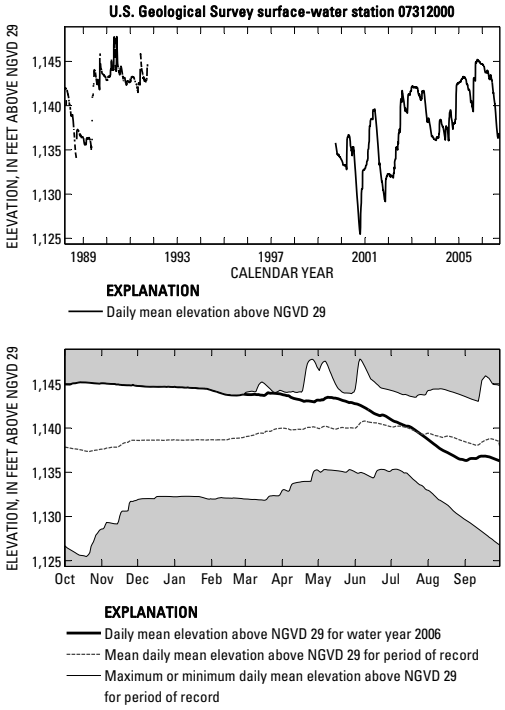


Figure 9. Water-surface-elevation data for U.S. Geological Survey station 07312000 Lake Kemp near Mabelle, Texas.

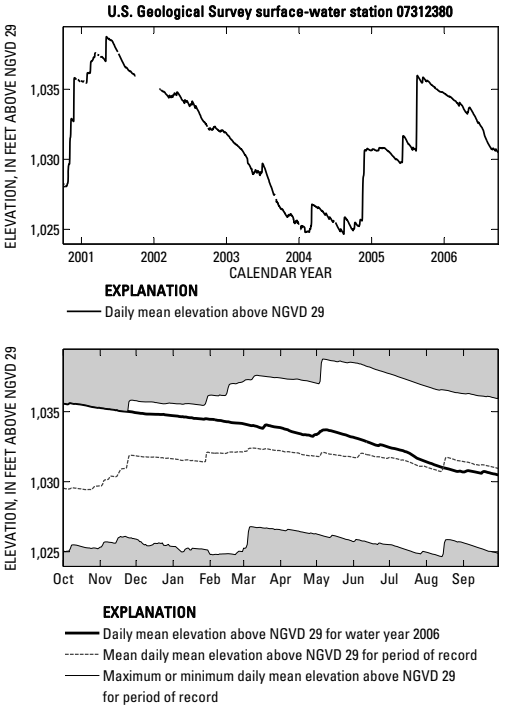


Figure 11. Water-surface-elevation data for U.S. Geological Survey station 07312380 North Fork Buffalo Creek Reservoir near Iowa Park, Texas.

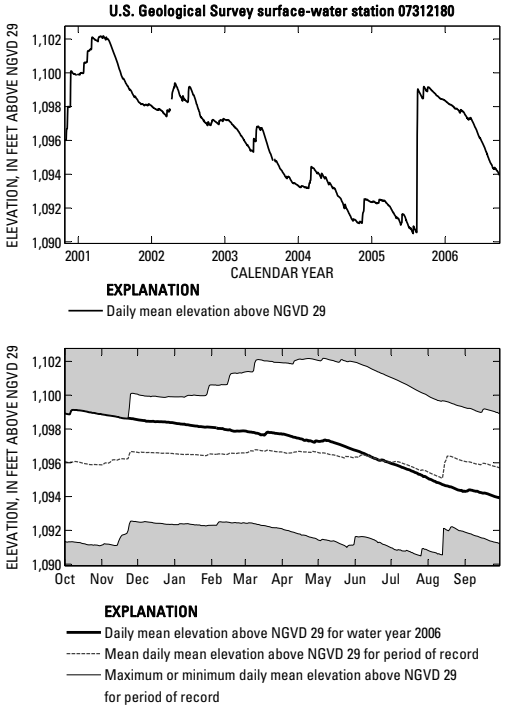


Figure 10. Water-surface-elevation data for U.S. Geological Survey station 07312180 Lake Electra near Electra, Texas.

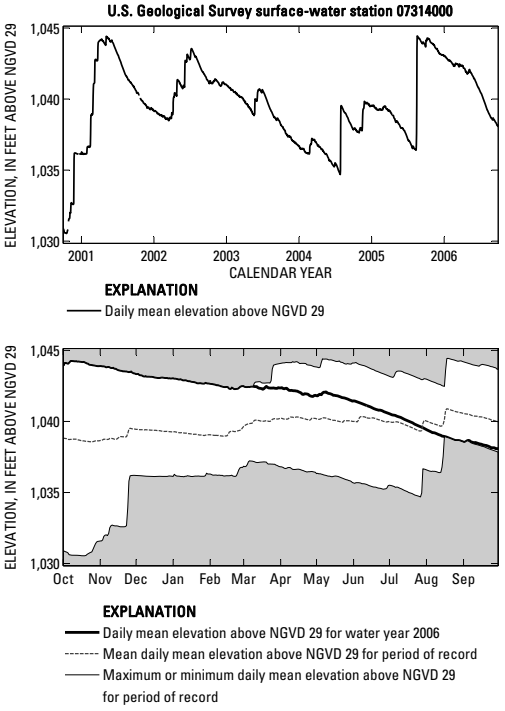


Figure 12. Water-surface-elevation data for U.S. Geological Survey station 07314000 Lake Kickapoo near Archer City, Texas.

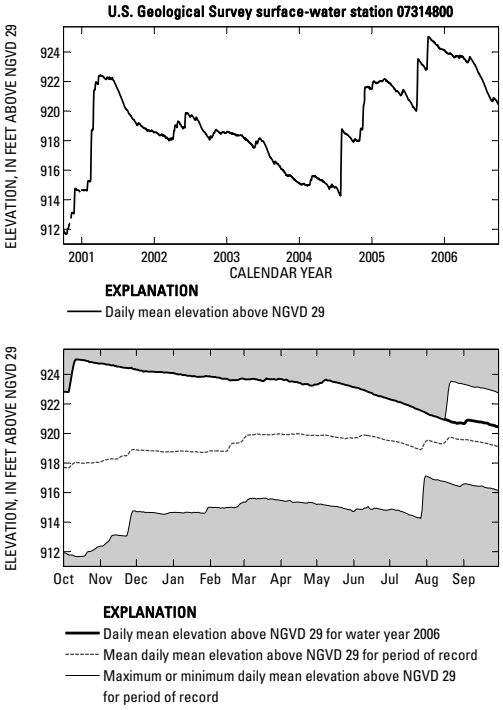


Figure 13. Water-surface-elevation data for U.S. Geological Survey station 07314800 Lake Arrowhead near Henrietta, Texas.

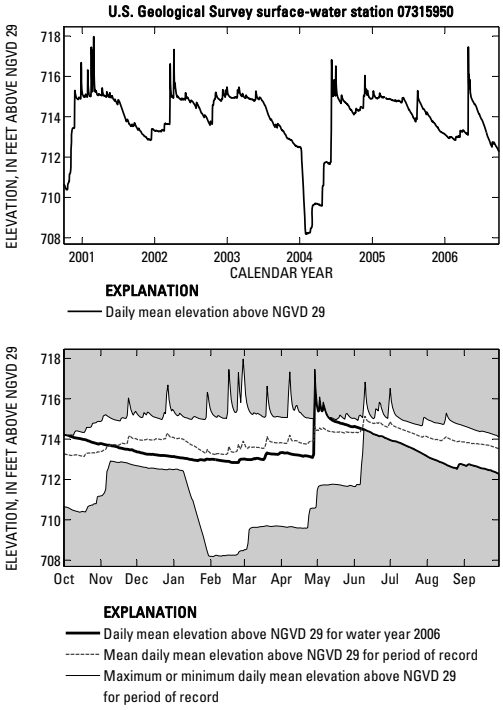


Figure 15. Water-surface-elevation data for U.S. Geological Survey station 07315950 Moss Lake near Gainesville, Texas.

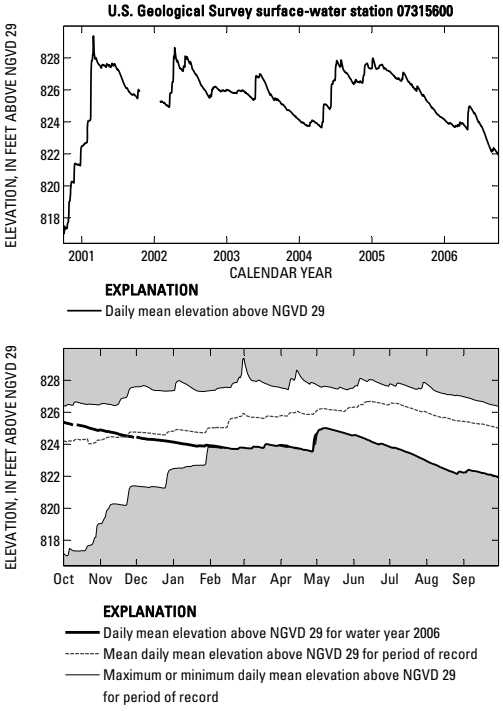


Figure 14. Water-surface-elevation data for U.S. Geological Survey station 07315600 Lake Nocona near Nocona, Texas.

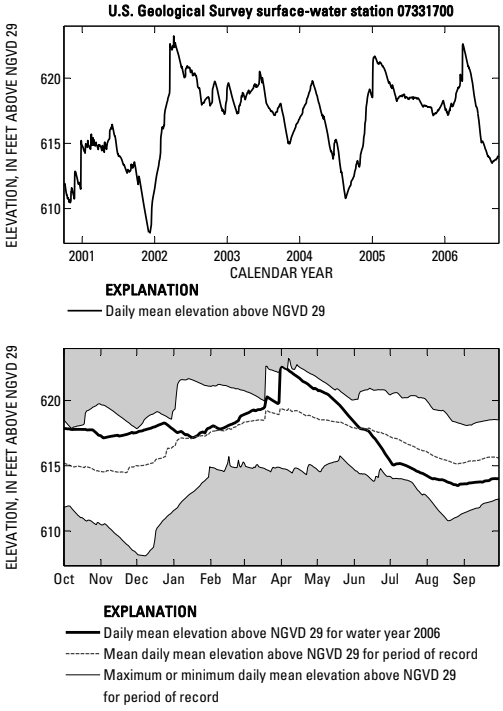


Figure 16. Water-surface-elevation data for U.S. Geological Survey station 07331700 Randell Lake near Denison, Texas.

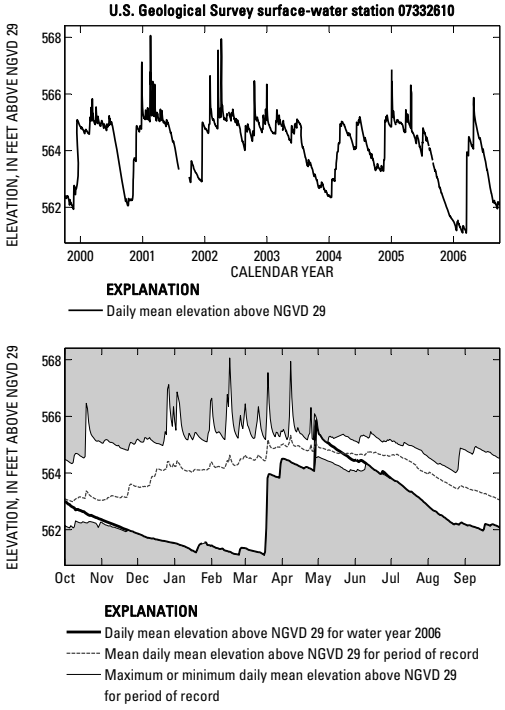


Figure 17. Water-surface-elevation data for U.S. Geological Survey station 07332610 Lake Bonham near Bonham, Texas.

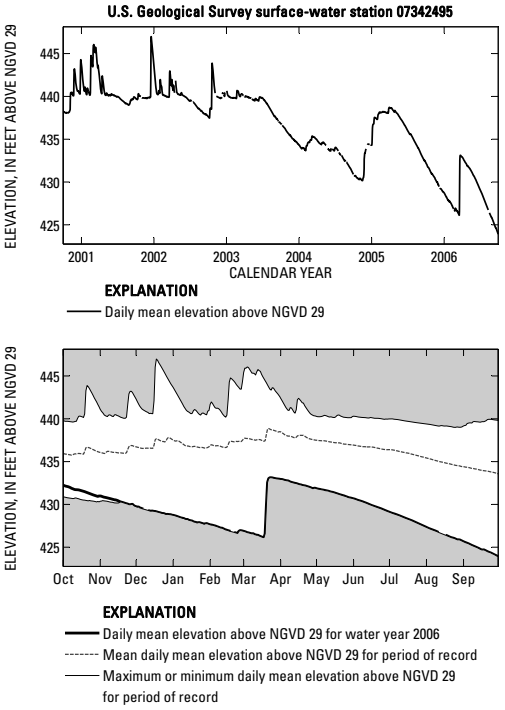


Figure 19. Water-surface-elevation data for U.S. Geological Survey station 07342495 Jim L. Chapman Lake near Cooper, Texas.

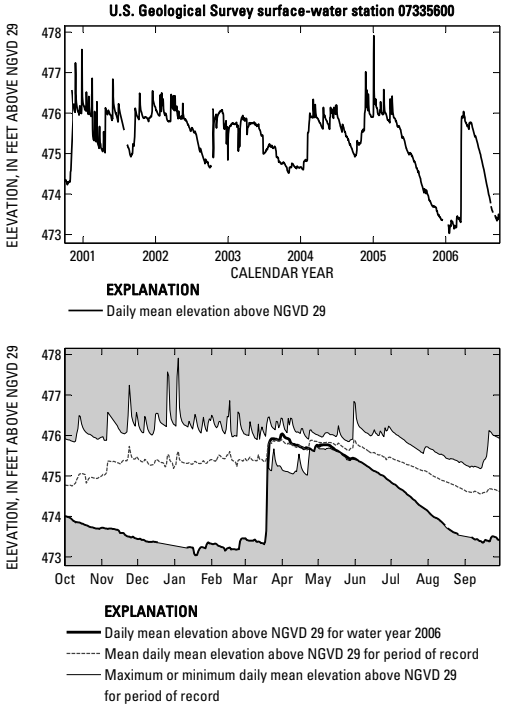


Figure 18. Water-surface-elevation data for U.S. Geological Survey station 07335600 Lake Crook near Paris, Texas.

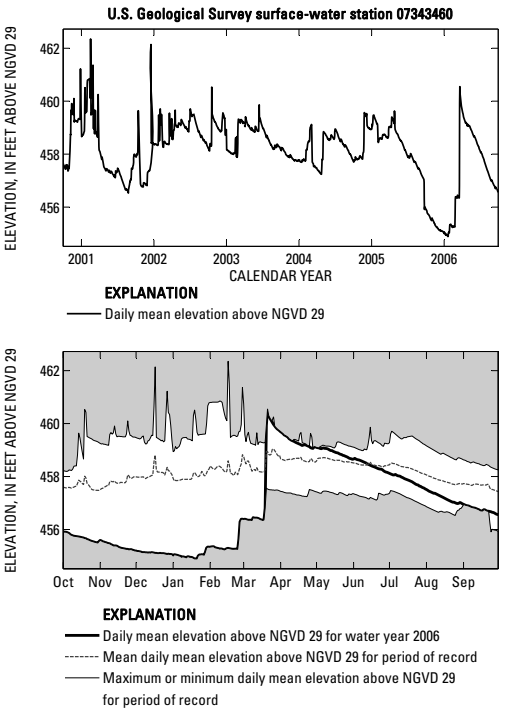


Figure 20. Water-surface-elevation data for U.S. Geological Survey station 07343460 Lake Sulphur Springs near Sulphur Springs, Texas.

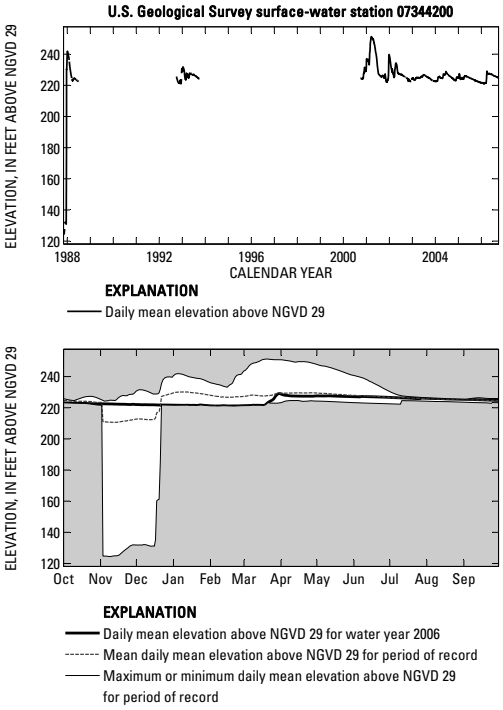


Figure 21. Water-surface-elevation data for U.S. Geological Survey station 07344200 Wright Patman Lake near Texarkana, Texas.

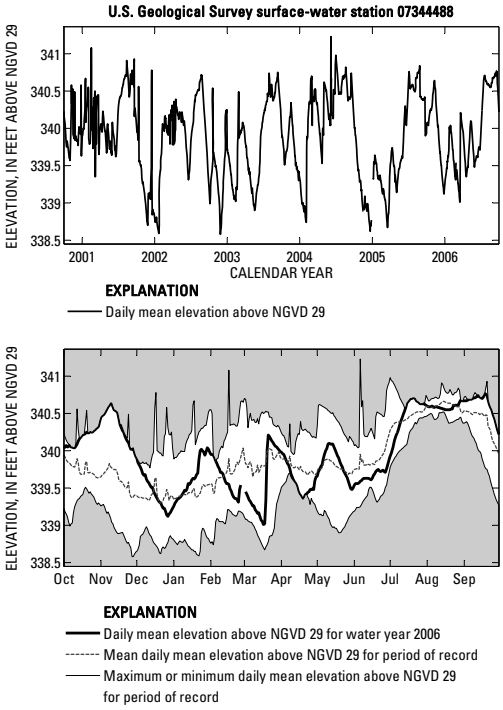


Figure 23. Water-surface-elevation data for U.S. Geological Survey station 07344488 Monticello Reservoir near Mount Pleasant, Texas.

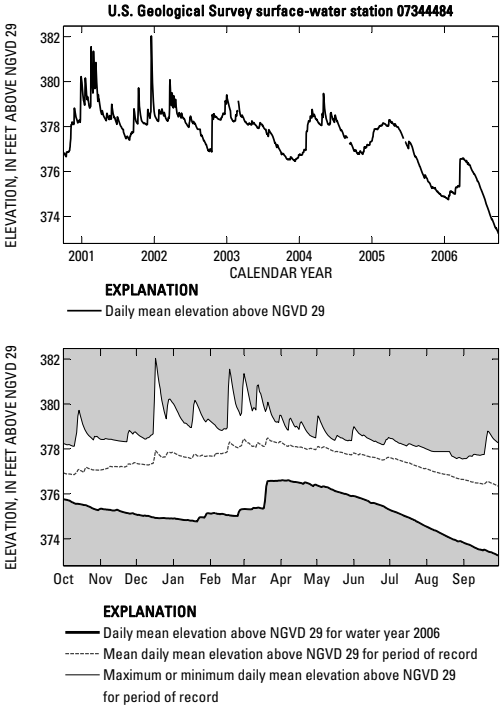


Figure 22. Water-surface-elevation data for U.S. Geological Survey station 07344484 Lake Cypress Springs near Mount Vernon, Texas.

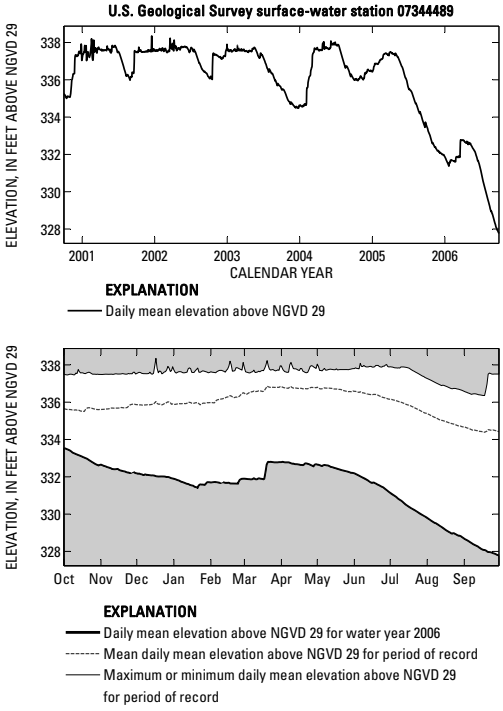


Figure 24. Water-surface-elevation data for U.S. Geological Survey station 07344489 Lake Bob Sandlin near Mount Pleasant, Texas.

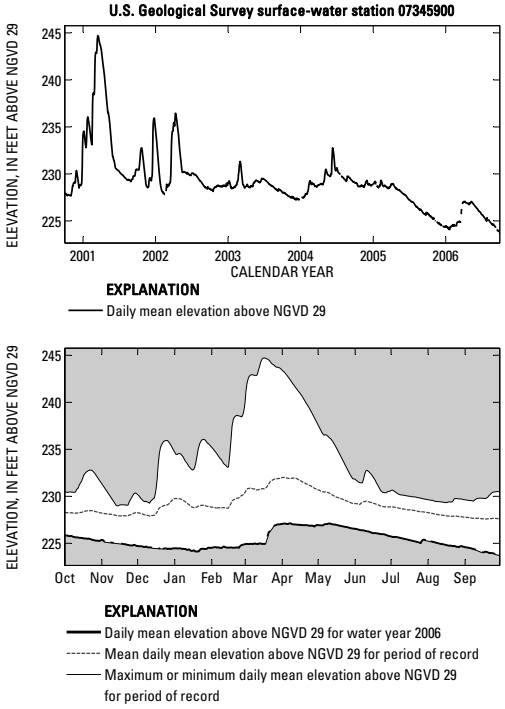


Figure 25. Water-surface-elevation data for U.S. Geological Survey station 07345900 Lake O' The Pines near Jefferson, Texas.

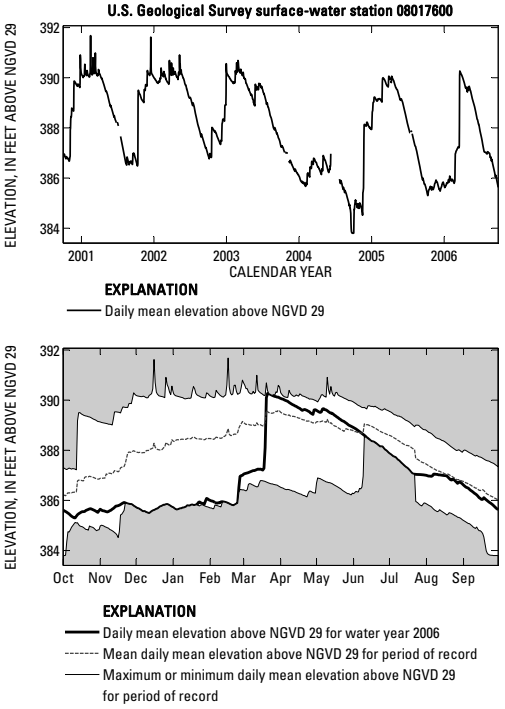


Figure 27. Water-surface-elevation data for U.S. Geological Survey station 08017600 Lake Edgewood near Edgewood, Texas.

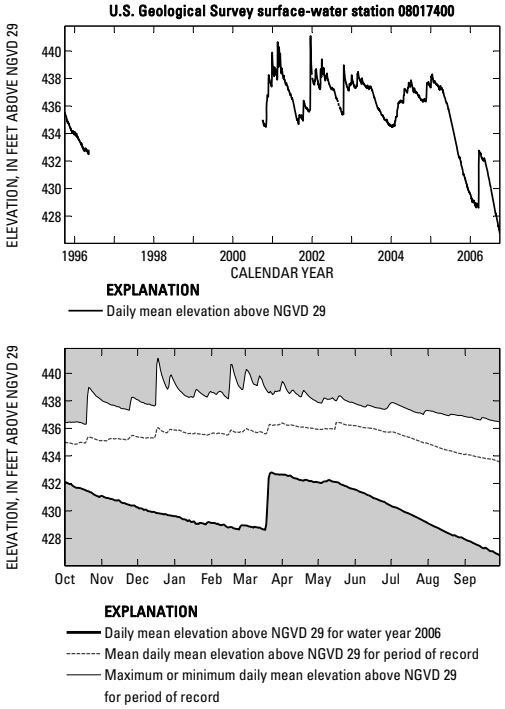


Figure 26. Water-surface-elevation data for U.S. Geological Survey station 08017400 Lake Tawakoni near Wills Point, Texas.

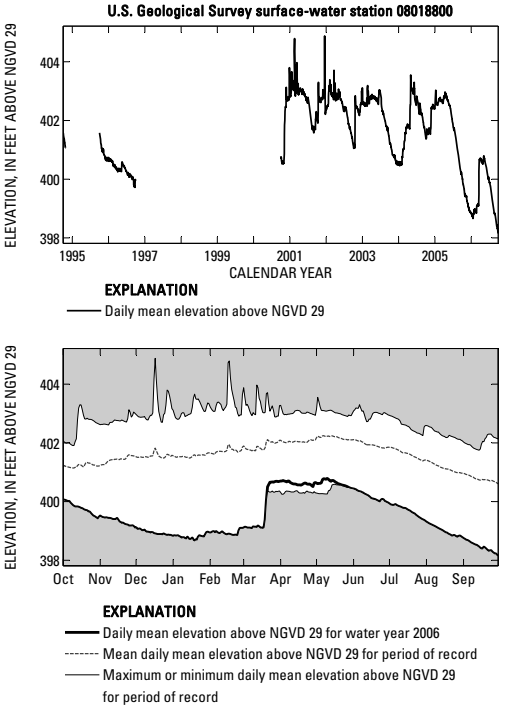


Figure 28. Water-surface-elevation data for U.S. Geological Survey station 08018800 Lake Fork Reservoir near Quitman, Texas.

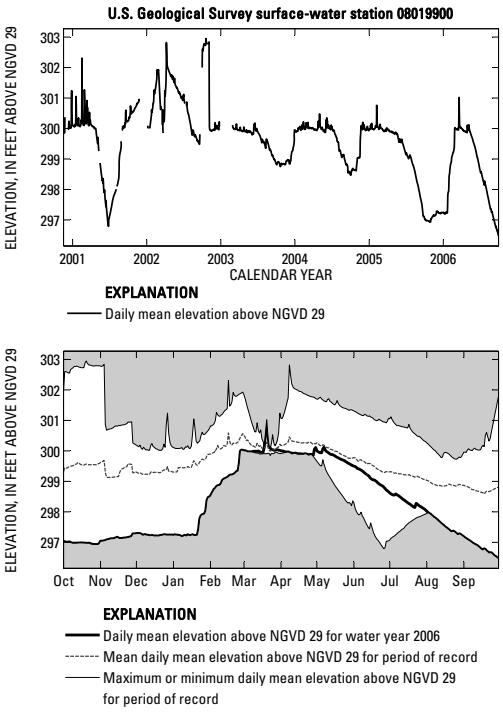


Figure 29. Water-surface-elevation data for U.S. Geological Survey station 08019900 Lake Gladewater near Gladewater, Texas.

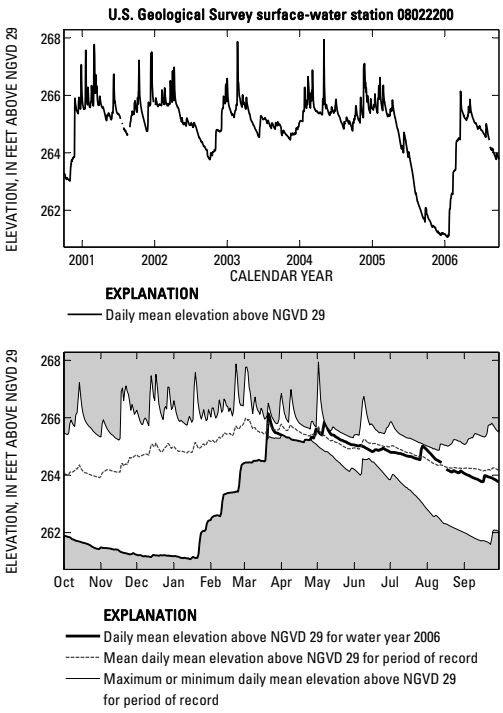


Figure 31. Water-surface-elevation data for U.S. Geological Survey station 08022200 Murvaul Lake near Gary, Texas.

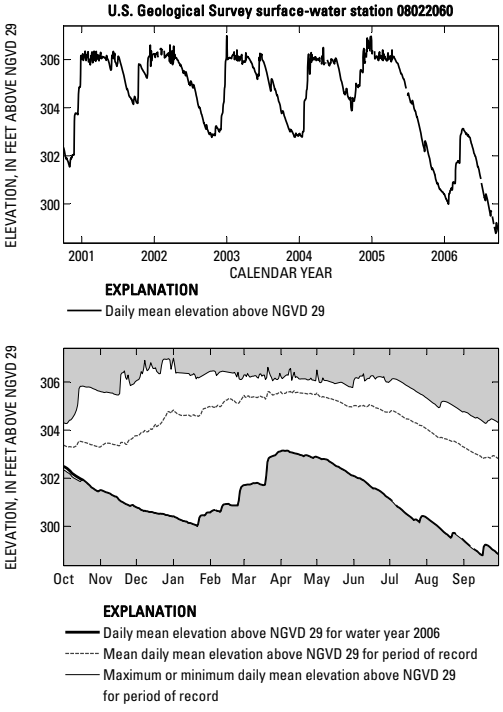


Figure 30. Water-surface-elevation data for U.S. Geological Survey station 08022060 Martin Lake near Tatum, Texas.

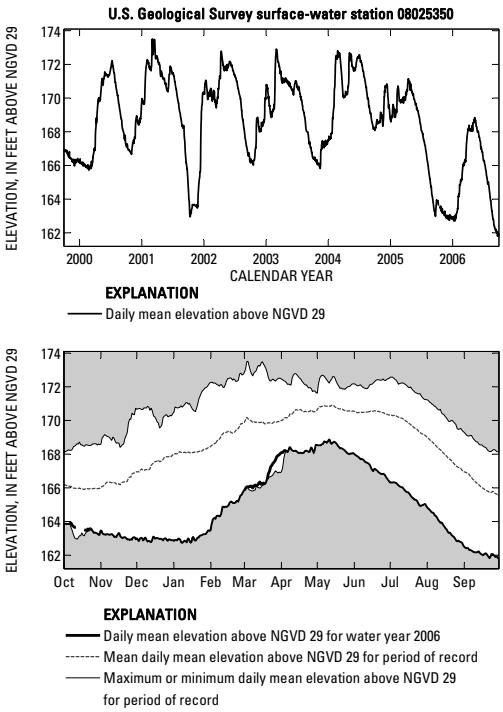


Figure 32. Water-surface-elevation data for U.S. Geological Survey station 08025350 Toledo Bend Reservoir near Burkeville, Texas.

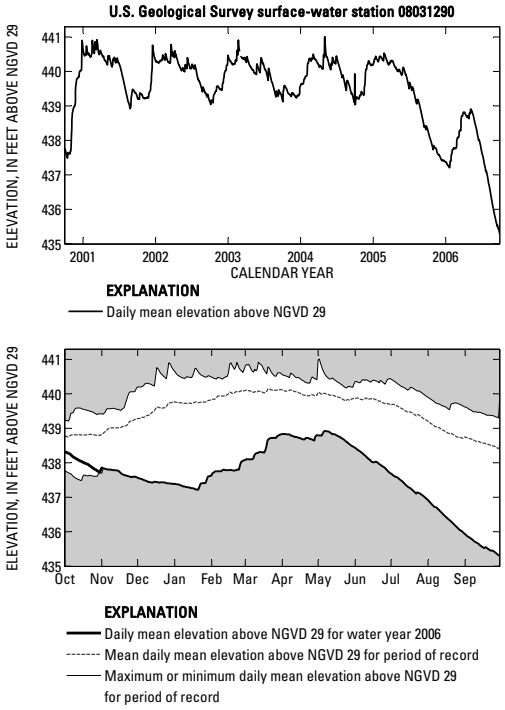


Figure 33. Water-surface-elevation data for U.S. Geological Survey station 08031290 Lake Athens near Athens, Texas.

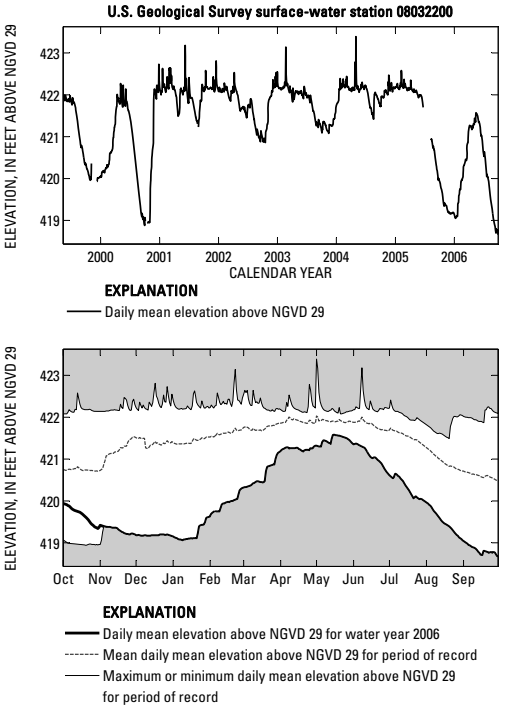


Figure 35. Water-surface-elevation data for U.S. Geological Survey station 08032200 Lake Jacksonville near Jacksonville, Texas.

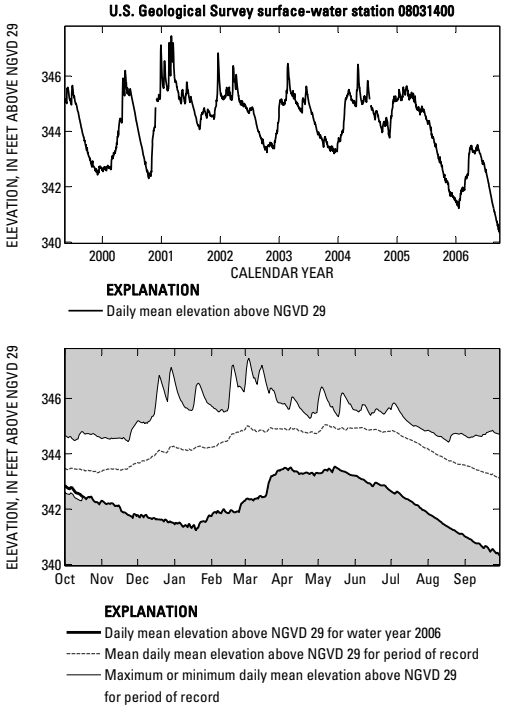


Figure 34. Water-surface-elevation data for U.S. Geological Survey station 08031400 Lake Palestine near Frankston, Texas.

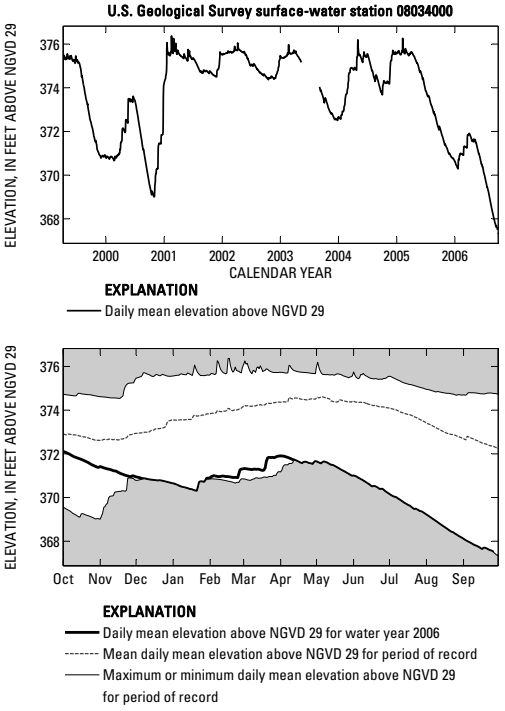


Figure 36. Water-surface-elevation data for U.S. Geological Survey station 08034000 Lake Tyler near Whitehouse, Texas.

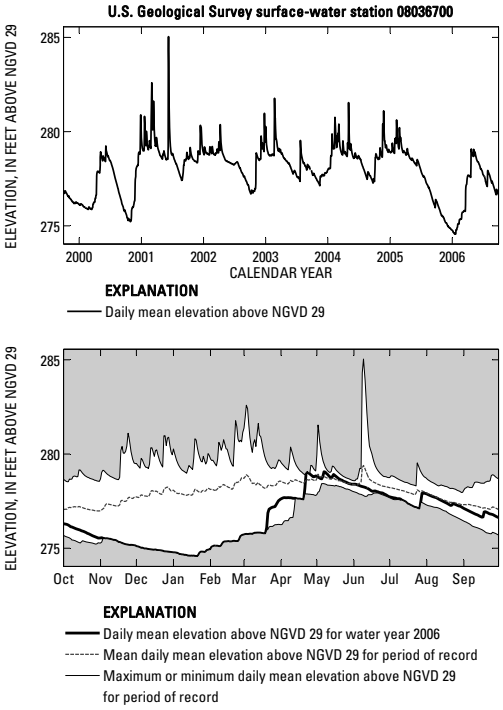


Figure 37. Water-surface-elevation data for U.S. Geological Survey station 08036700 Lake Nacogdoches near Nacogdoches, Texas.

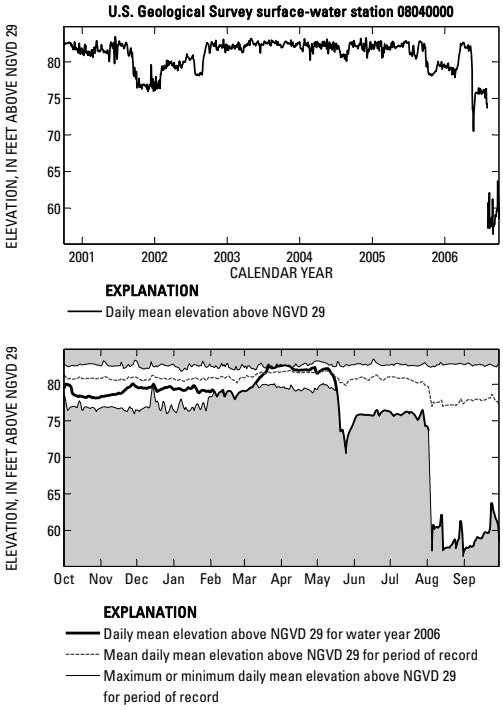


Figure 39. Water-surface-elevation data for U.S. Geological Survey station 08040000 B.A. Steinhagen Lake at Town Bluff, Texas.

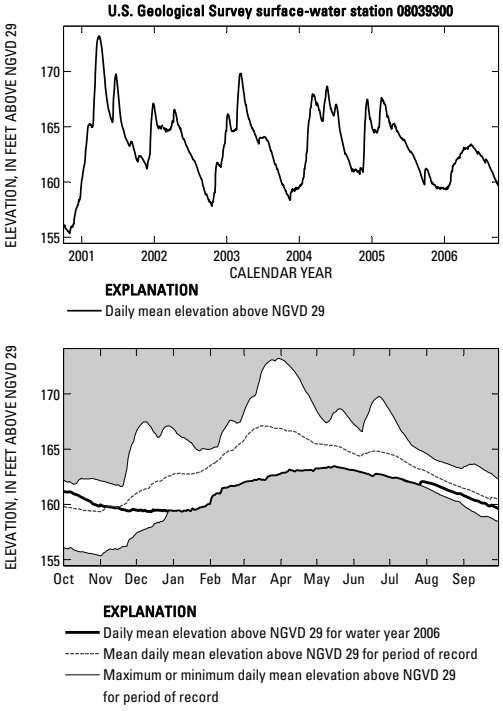


Figure 38. Water-surface-elevation data for U.S. Geological Survey station 08039300 Sam Rayburn Reservoir near Jasper, Texas.

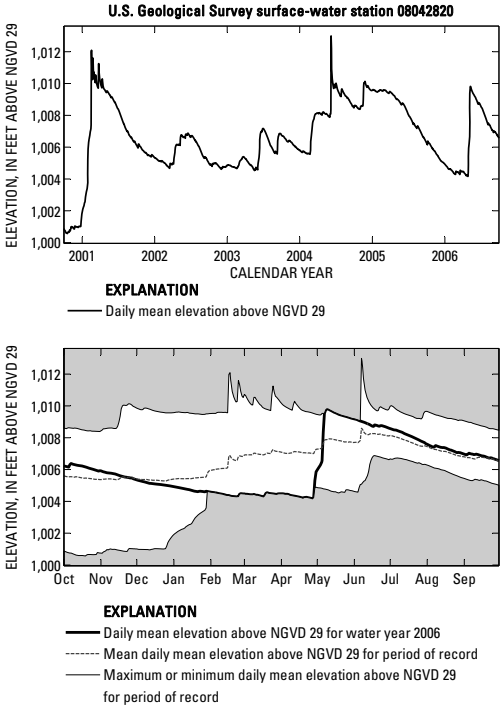


Figure 40. Water-surface-elevation data for U.S. Geological Survey station 08042820 Lost Creek Reservoir near Jacksboro, Texas.

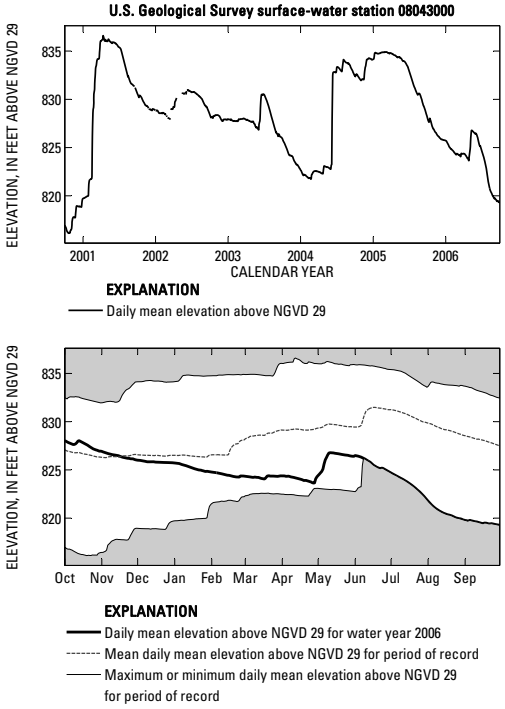


Figure 41. Water-surface-elevation data for U.S. Geological Survey station 08043000 Bridgeport Reservoir above Bridgeport, Texas.

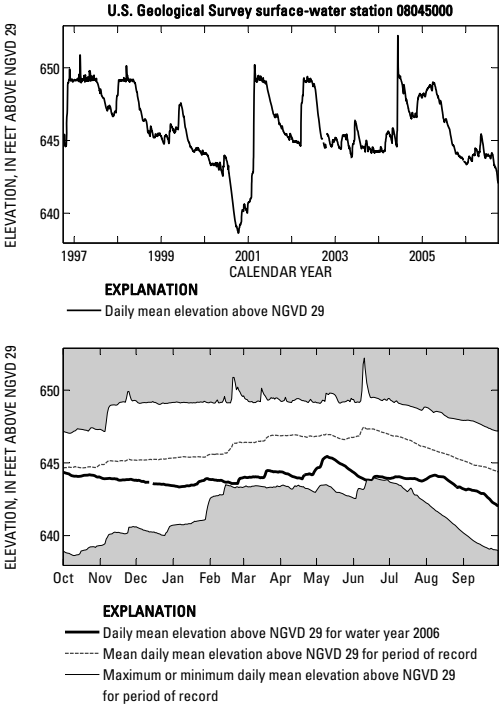


Figure 43. Water-surface-elevation data for U.S. Geological Survey station 08045000 Eagle Mountain Reservoir above Fort Worth, Texas.

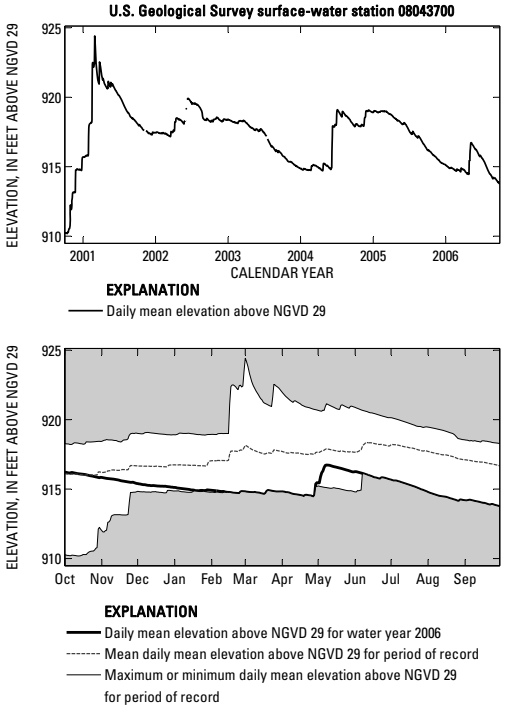


Figure 42. Water-surface-elevation data for U.S. Geological Survey station 08043700 Lake Amon G. Carter near Bowie, Texas.

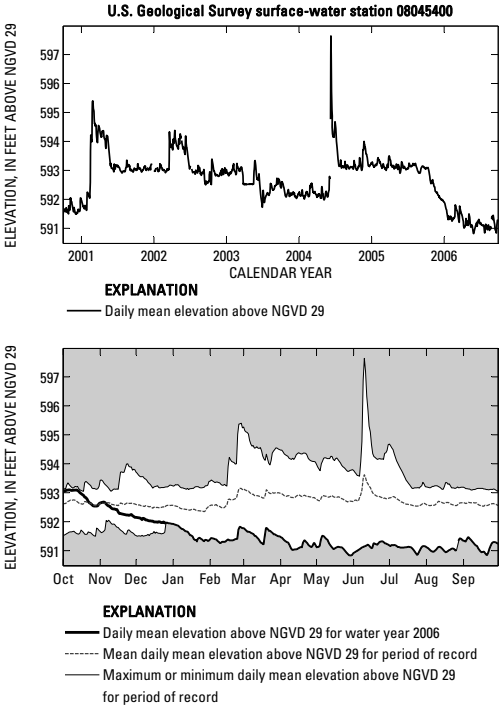


Figure 44. Water-surface-elevation data for U.S. Geological Survey station 08045400 Lake Worth above Fort Worth, Texas.

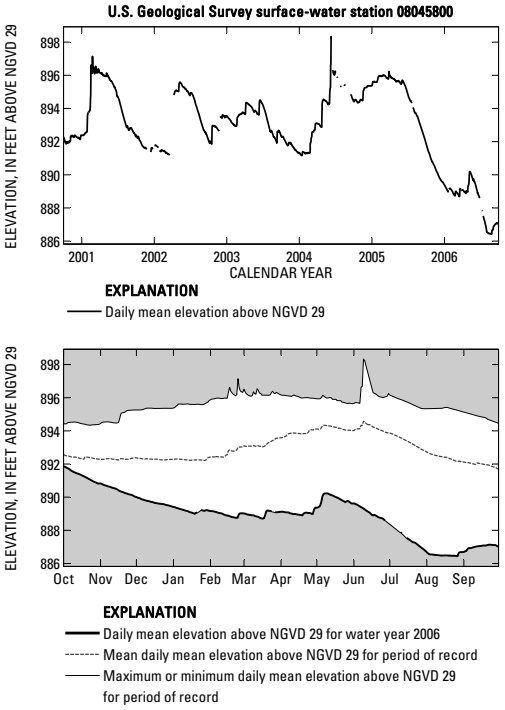


Figure 45. Water-surface-elevation data for U.S. Geological Survey station 08045800 Lake Weatherford near Weatherford, Texas.

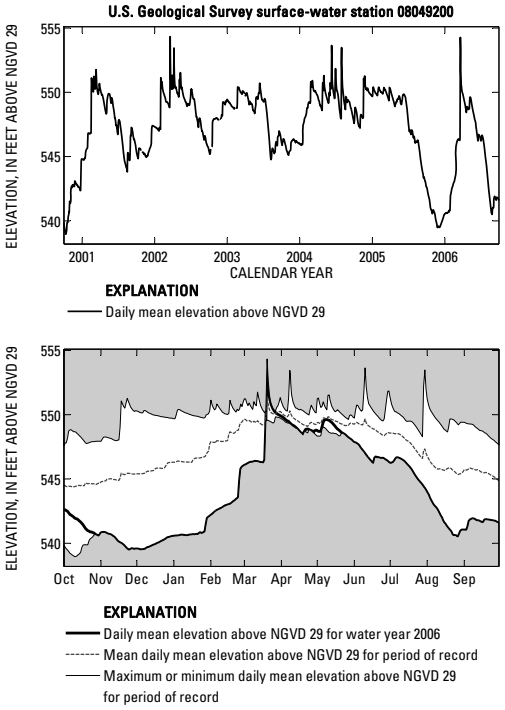


Figure 47. Water-surface-elevation data for U.S. Geological Survey station 08049200 Lake Arlington at Arlington, Texas.

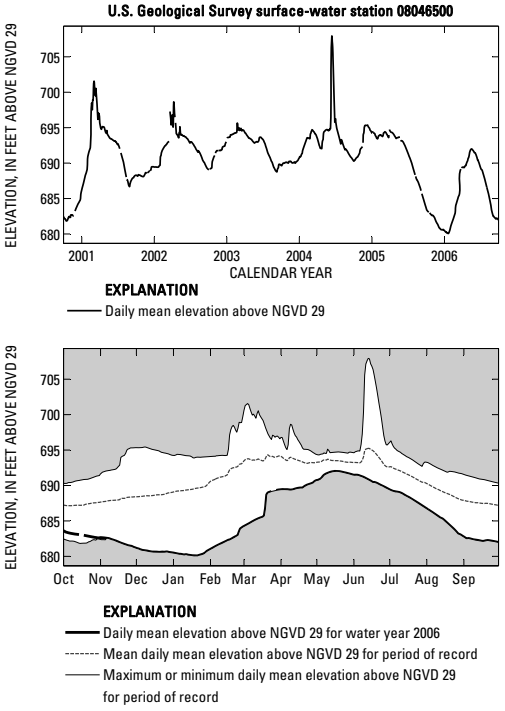


Figure 46. Water-surface-elevation data for U.S. Geological Survey station 08046500 Benbrook Lake near Benbrook, Texas.

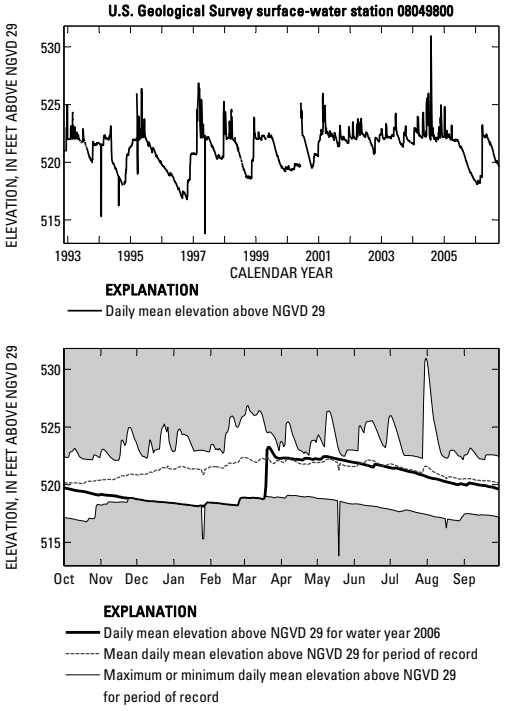


Figure 48. Water-surface-elevation data for U.S. Geological Survey station 08049800 Joe Pool Lake near Duncanville, Texas.

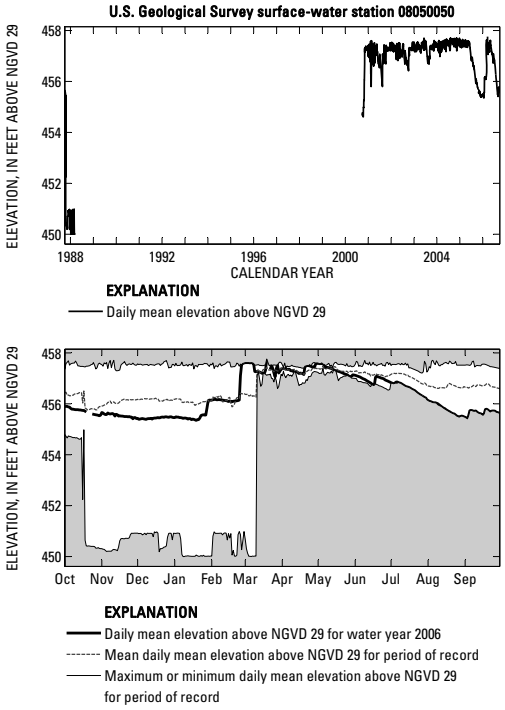


Figure 49. Water-surface-elevation data for U.S. Geological Survey station 08050050 Mountain Creek Lake near Grand Prairie, Texas.

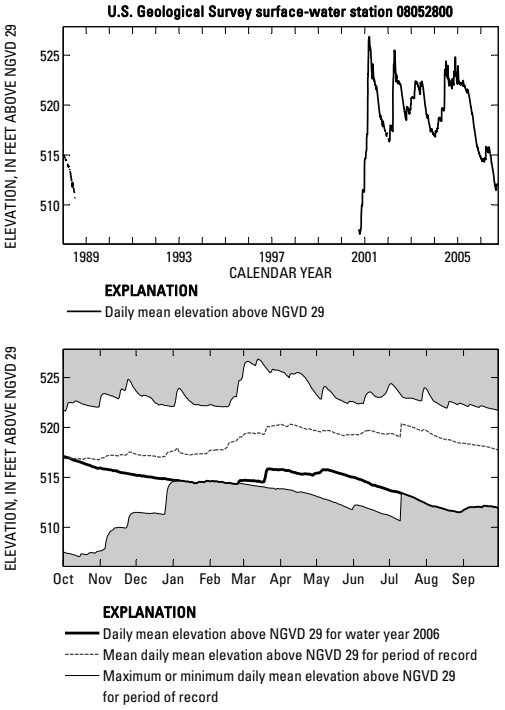


Figure 51. Water-surface-elevation data for U.S. Geological Survey station 08052800 Lewisville Lake near Lewisville, Texas.

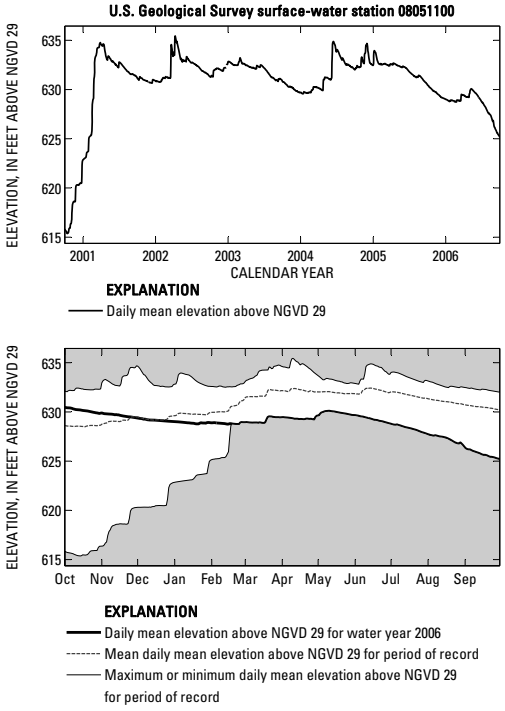


Figure 50. Water-surface-elevation data for U.S. Geological Survey station 08051100 Ray Roberts Lake near Pilot Point, Texas.

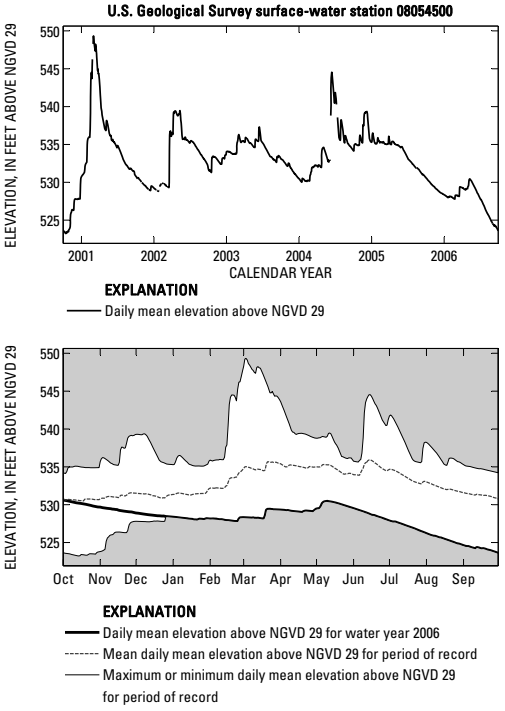


Figure 52. Water-surface-elevation data for U.S. Geological Survey station 08054500 Grapevine Lake near Grapevine, Texas.

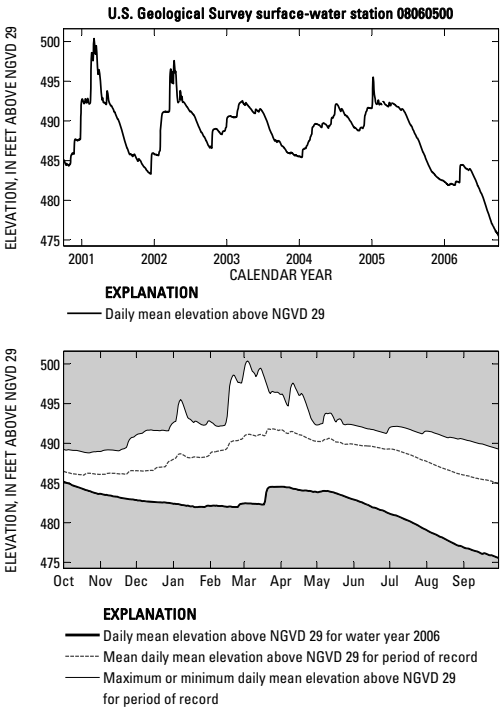


Figure 53. Water-surface-elevation data for U.S. Geological Survey station 08060500 Lavon Lake near Lavon, Texas.

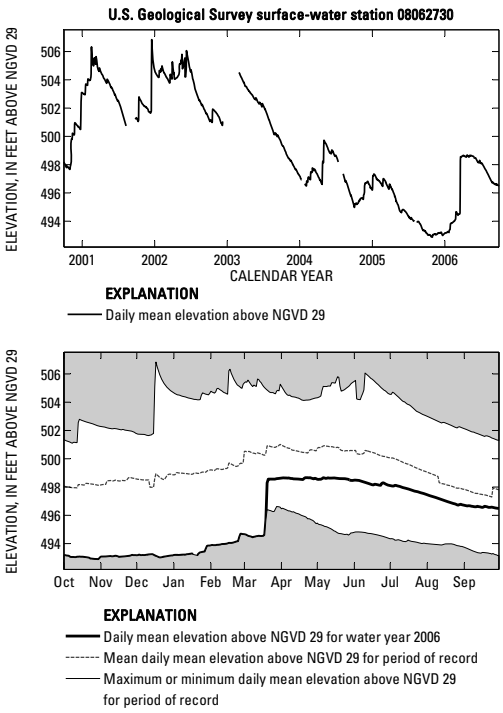


Figure 55. Water-surface-elevation data for U.S. Geological Survey station 08062730 New Terrell City Lake near Terrell, Texas.

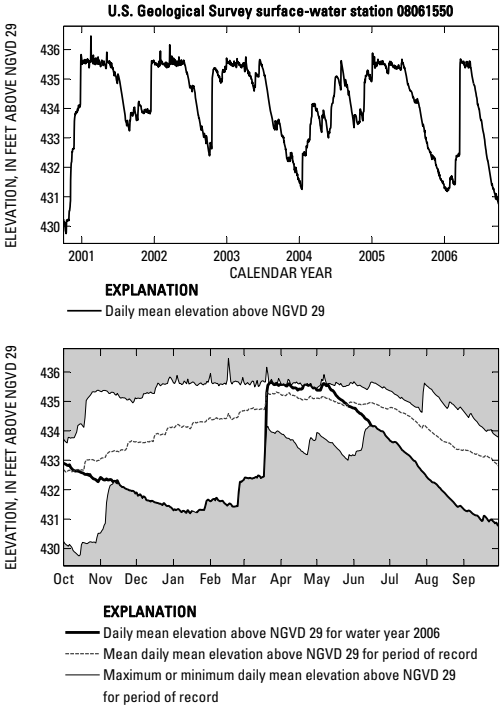


Figure 54. Water-surface-elevation data for U.S. Geological Survey station 08061550 Lake Ray Hubbard near Forney, Texas.

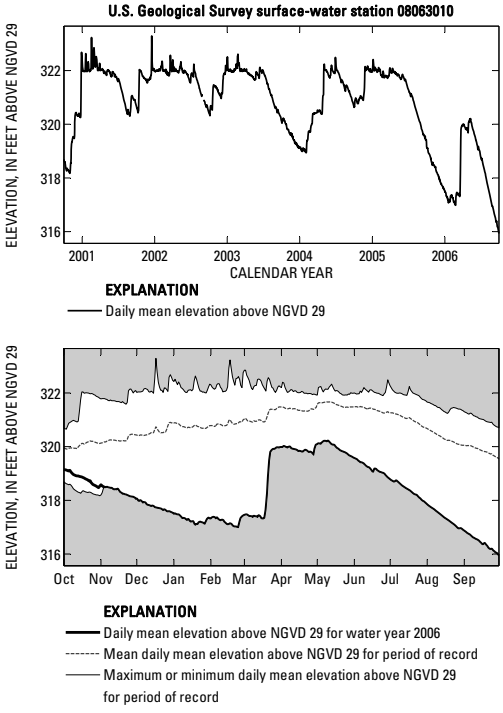


Figure 56. Water-surface-elevation data for U.S. Geological Survey station 08063010 Cedar Creek Reservoir near Trinidad, Texas.

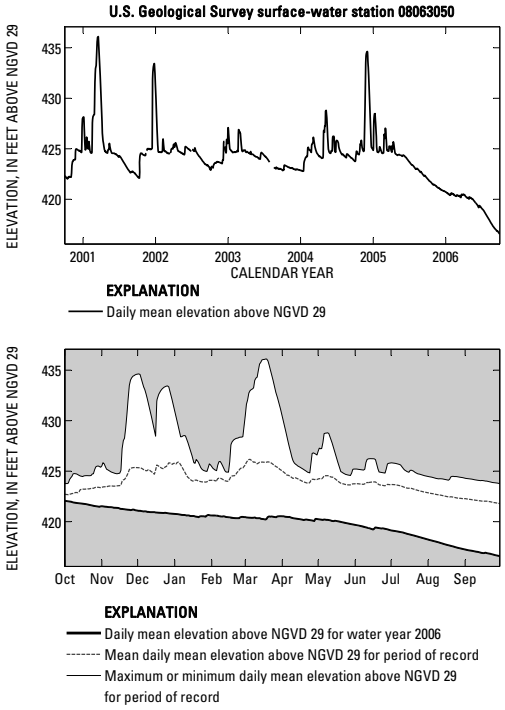


Figure 57. Water-surface-elevation data for U.S. Geological Survey station 08063050 Navarro Mills Lake near Dawson, Texas.

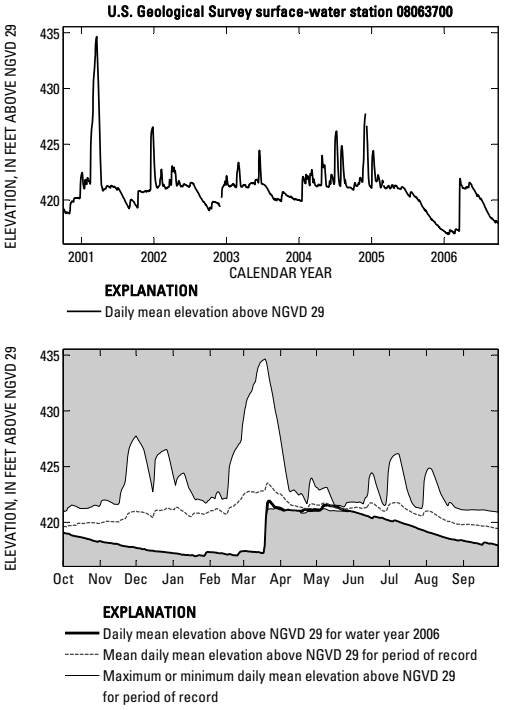


Figure 59. Water-surface-elevation data for U.S. Geological Survey station 08063700 Bardwell Lake near Ennis, Texas.

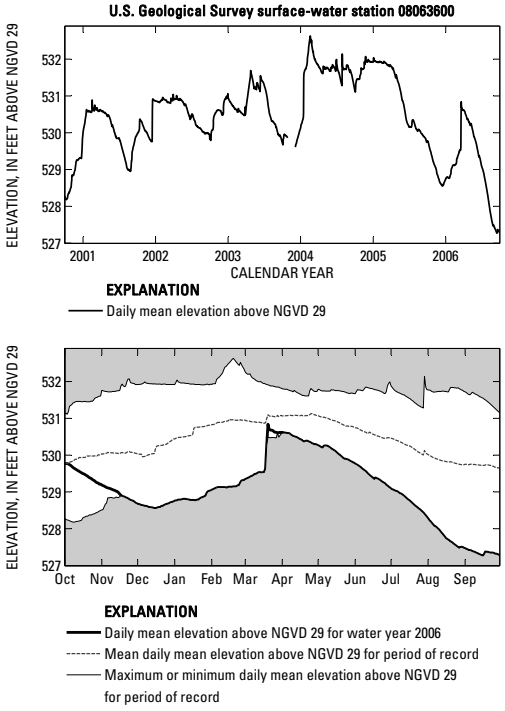


Figure 58. Water-surface-elevation data for U.S. Geological Survey station 08063600 Lake Waxahachie near Waxahachie, Texas.

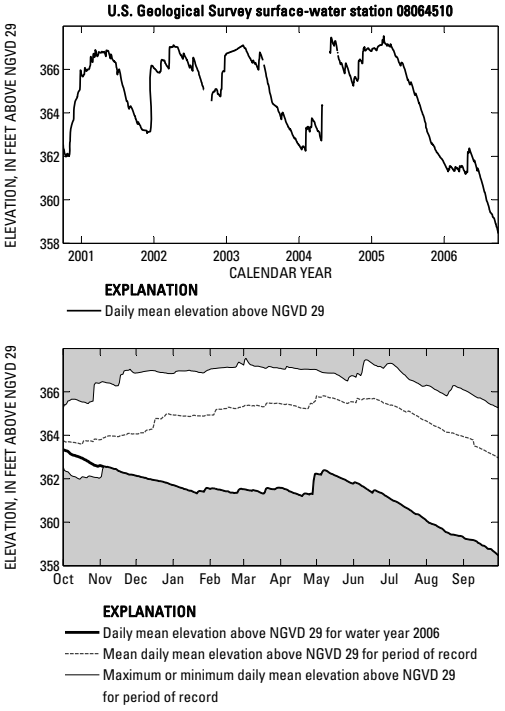


Figure 60. Water-surface-elevation data for U.S. Geological Survey station 08064510 Halbert Lake near Corsicana, Texas.

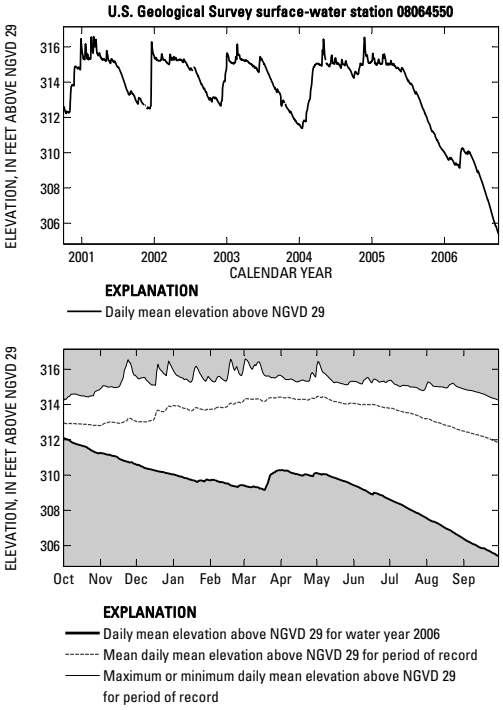


Figure 61. Water-surface-elevation data for U.S. Geological Survey station 08064550 Richland-Chambers Reservoir near Kerens, Texas.

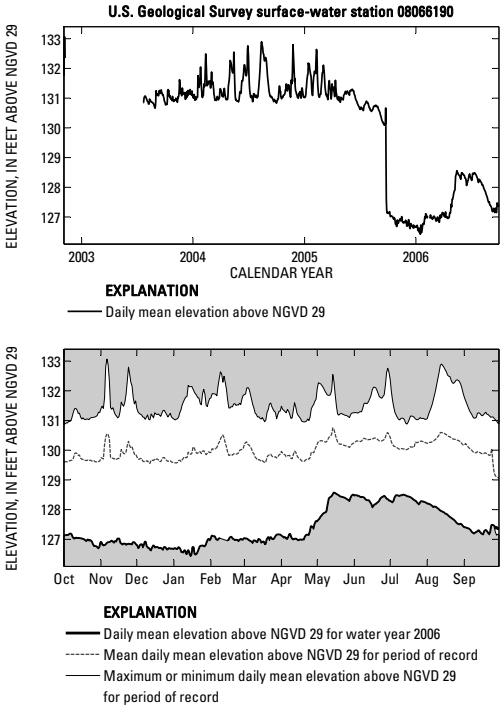


Figure 63. Water-surface-elevation data for U.S. Geological Survey station 08066190 Livingston Reservoir near Goodrich, Texas.

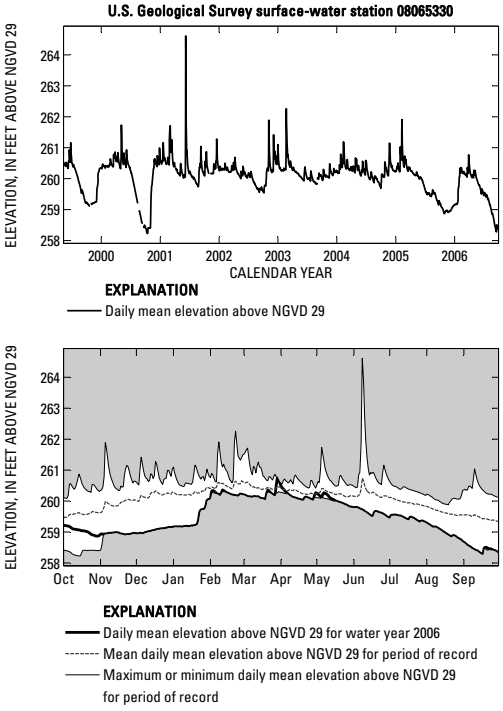


Figure 62. Water-surface-elevation data for U.S. Geological Survey station 08065330 Houston County Lake near Crockett, Texas.

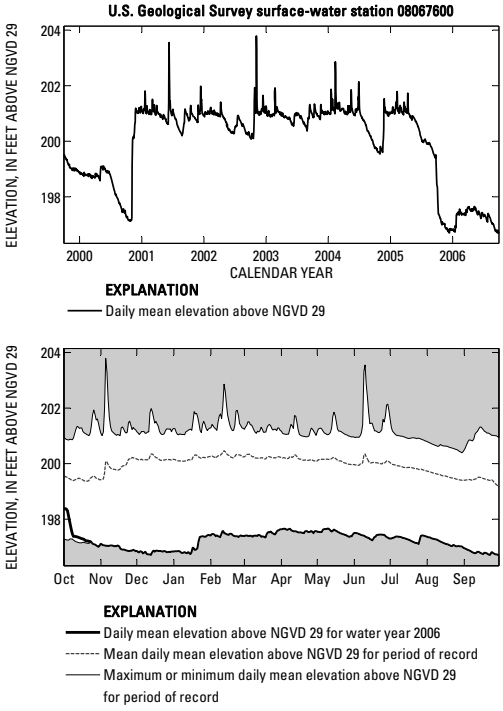


Figure 64. Water-surface-elevation data for U.S. Geological Survey station 08067600 Lake Conroe near Conroe, Texas.

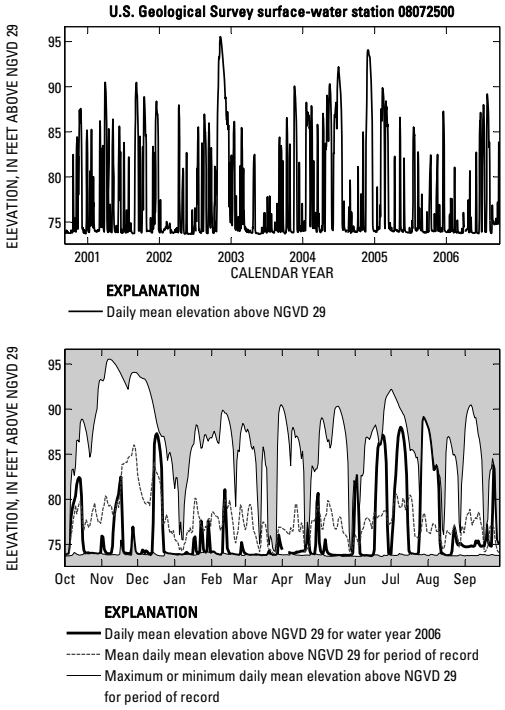


Figure 65. Water-surface-elevation data for U.S. Geological Survey station 08072500 Barker Reservoir near Addicks, Texas.

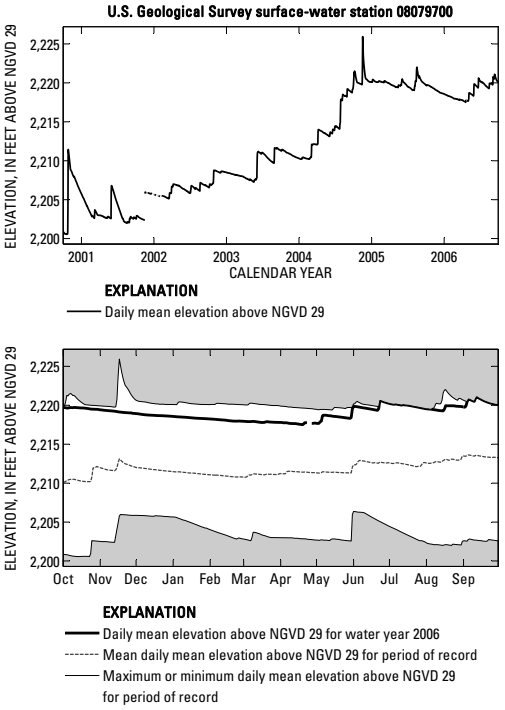


Figure 67. Water-surface-elevation data for U.S. Geological Survey station 08079700 Lake Alan Henry Reservoir near Justiceburg, Texas.

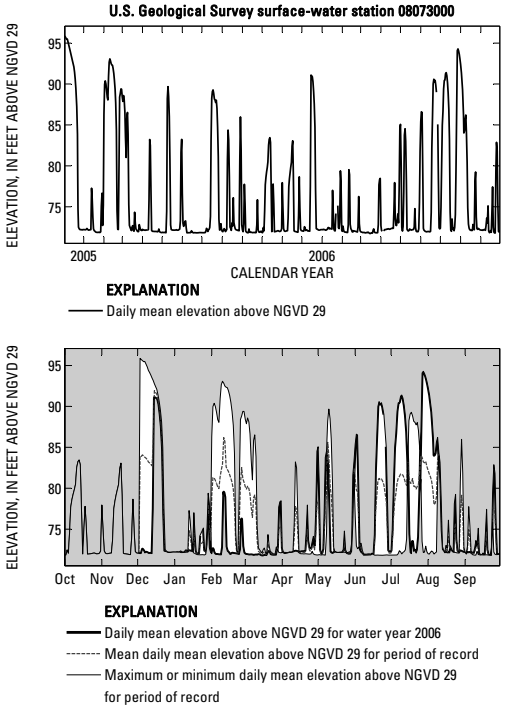


Figure 66. Water-surface-elevation data for U.S. Geological Survey station 08073000 Addicks Reservoir near Addicks, Texas.

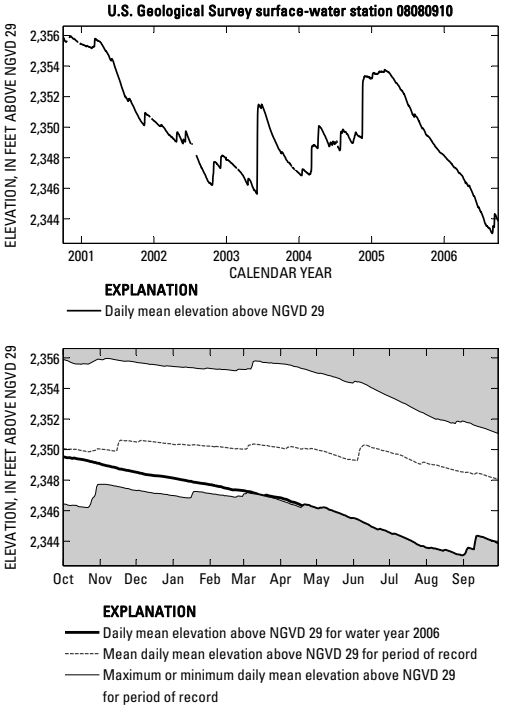


Figure 68. Water-surface-elevation data for U.S. Geological Survey station 08080910 White River Reservoir near Spur, Texas.

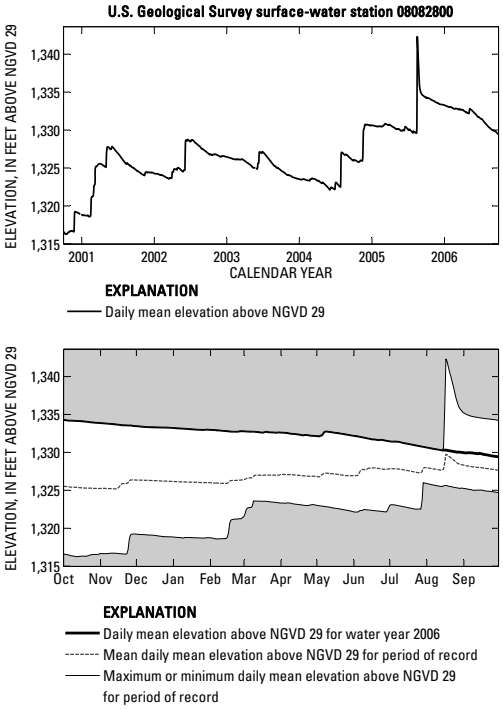


Figure 69. Water-surface-elevation data for U.S. Geological Survey station 08082800 Millers Creek Reservoir near Bomarton, Texas.

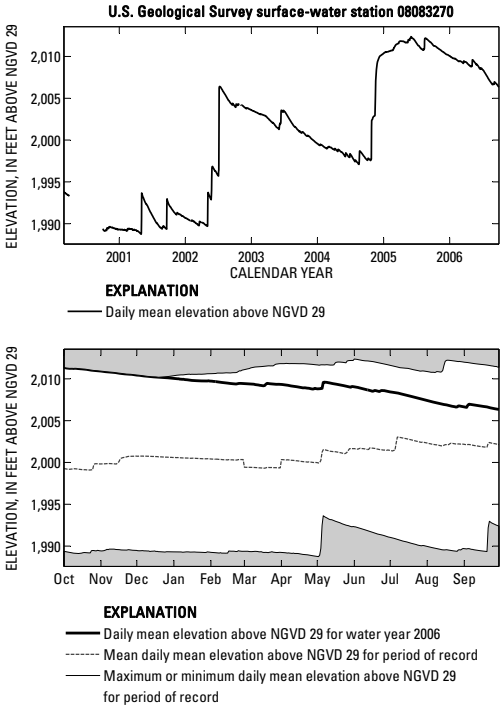


Figure 71. Water-surface-elevation data for U.S. Geological Survey station 08083270 Lake Abilene near Buffalo Gap, Texas.

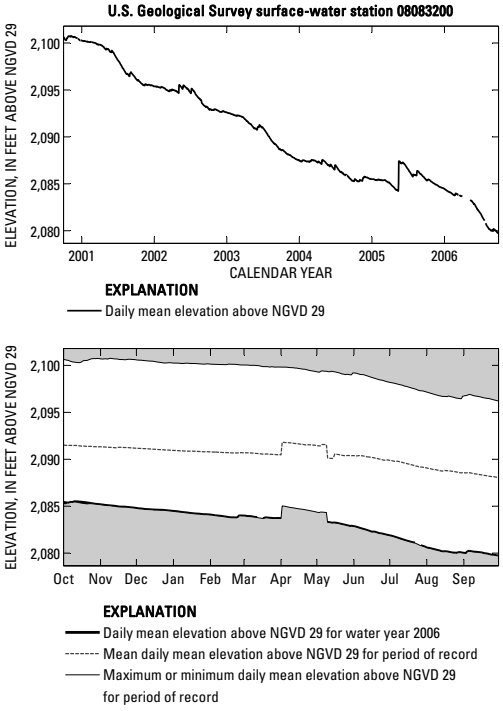


Figure 70. Water-surface-elevation data for U.S. Geological Survey station 08083200 Lake Sweetwater near Sweetwater, Texas.

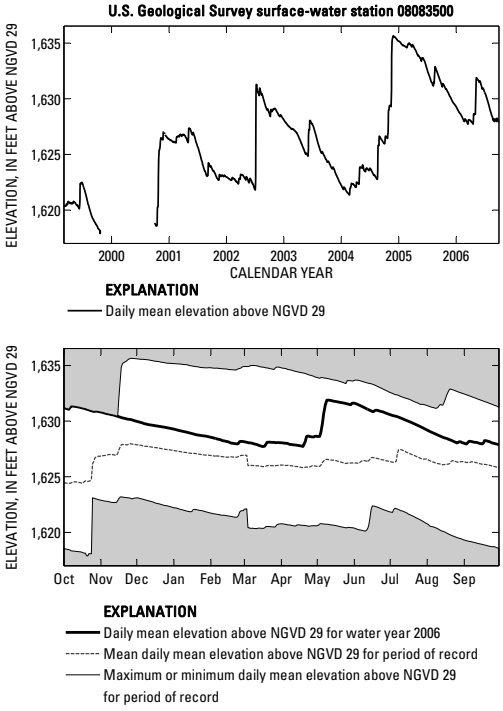


Figure 72. Water-surface-elevation data for U.S. Geological Survey station 08083500 Fort Phantom Hill Reservoir near Nugent, Texas.

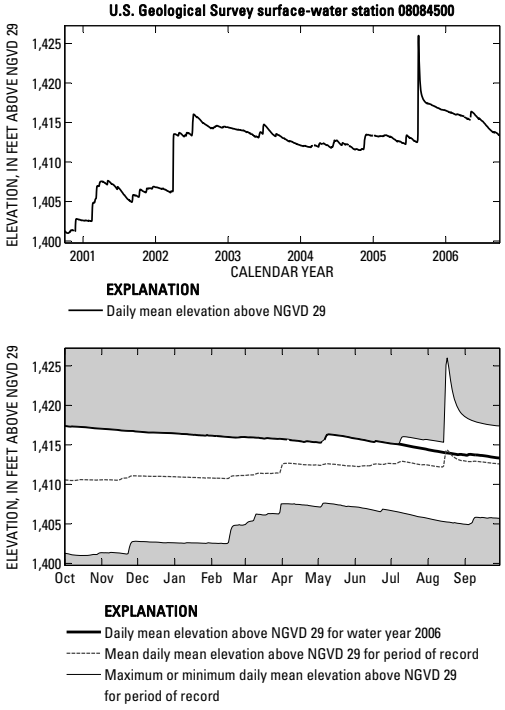


Figure 73. Water-surface-elevation data for U.S. Geological Survey station 08084500 Lake Stamford near Haskell, Texas.

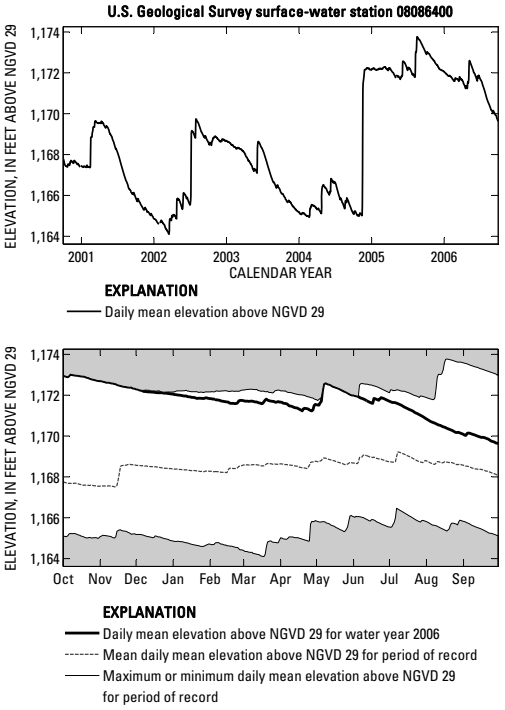


Figure 75. Water-surface-elevation data for U.S. Geological Survey station 08086400 Hubbard Creek Reservoir near Breckenridge, Texas.

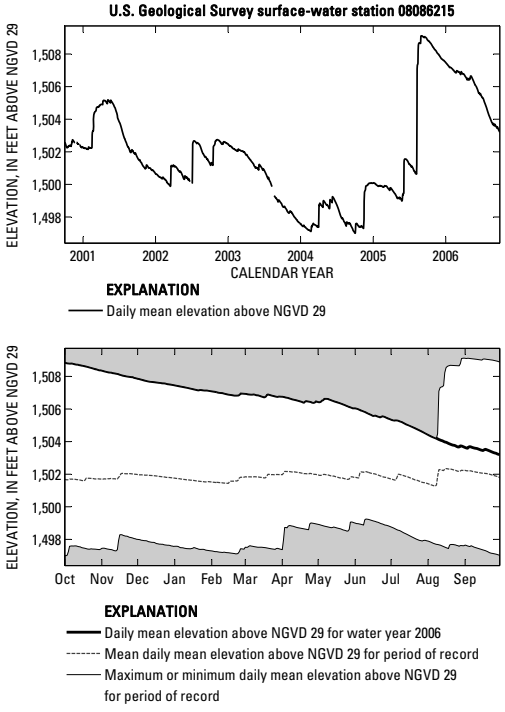


Figure 74. Water-surface-elevation data for U.S. Geological Survey station 08086215 Lake Cisco near Cisco, Texas.

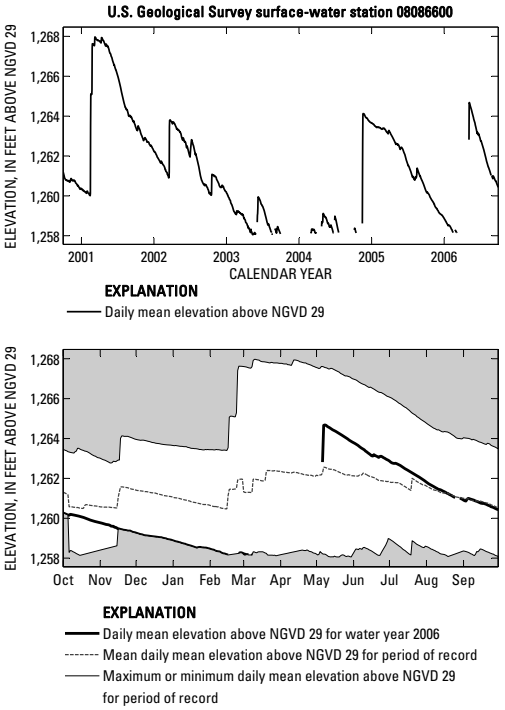


Figure 76. Water-surface-elevation data for U.S. Geological Survey station 08086600 Lake Daniel near Breckenridge, Texas.

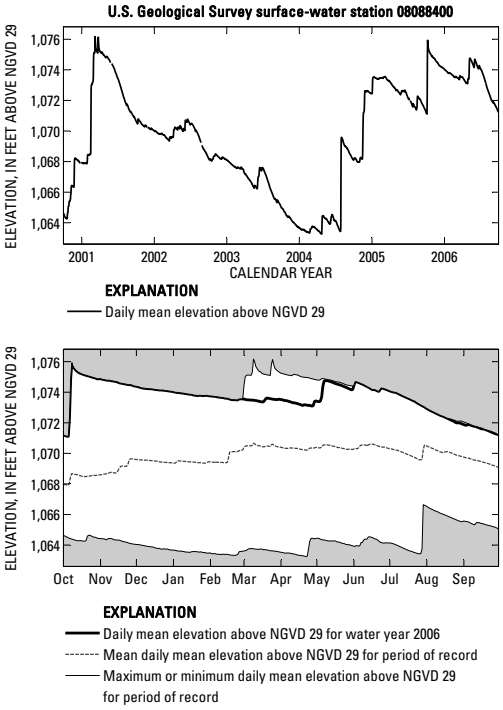


Figure 77. Water-surface-elevation data for U.S. Geological Survey station 08088400 Lake Graham near Graham, Texas.

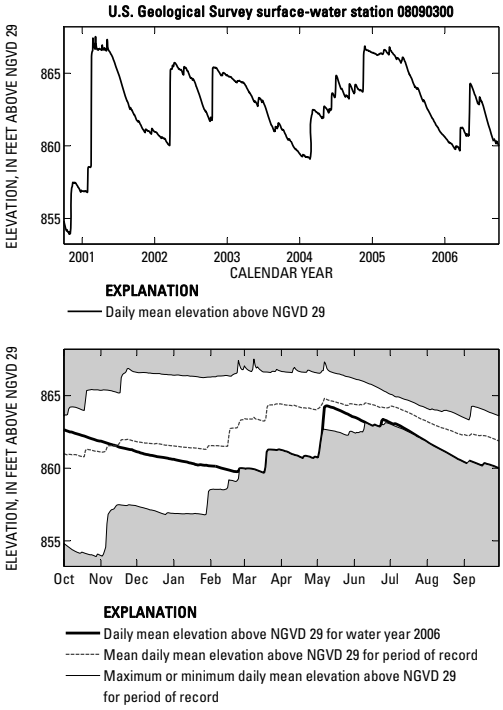


Figure 79. Water-surface-elevation data for U.S. Geological Survey station 08090300 Lake Palo Pinto near Santo, Texas.

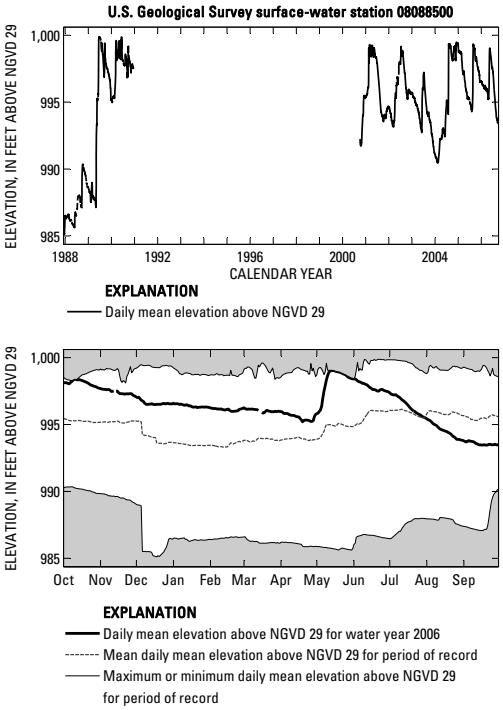


Figure 78. Water-surface-elevation data for U.S. Geological Survey station 08088500 Possum Kingdom Lake near Graford, Texas.

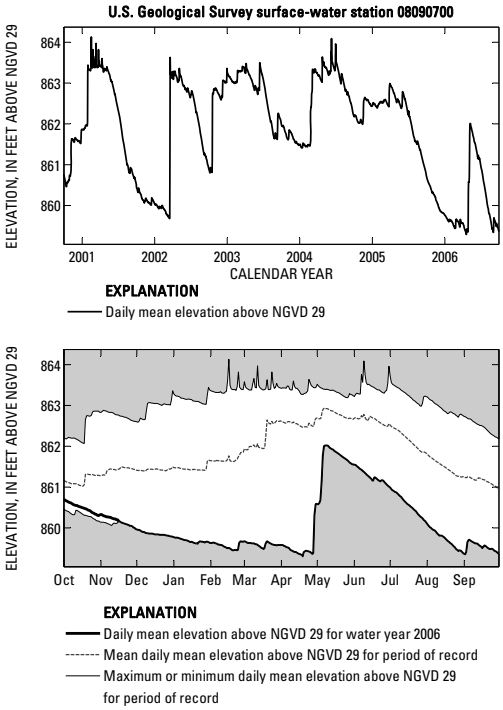


Figure 80. Water-surface-elevation data for U.S. Geological Survey station 08090700 Lake Mineral Wells near Mineral Wells, Texas.

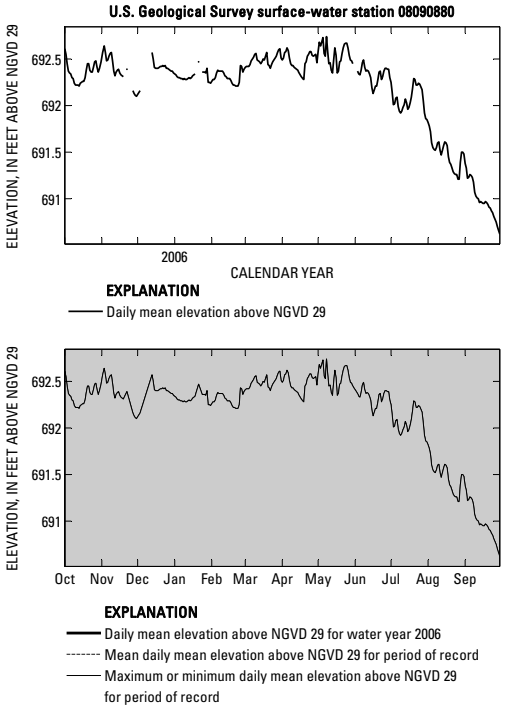


Figure 81. Water-surface-elevation data for U.S. Geological Survey station 08090880 Lake Granbury at State Highway 51 near Granbury, Texas.

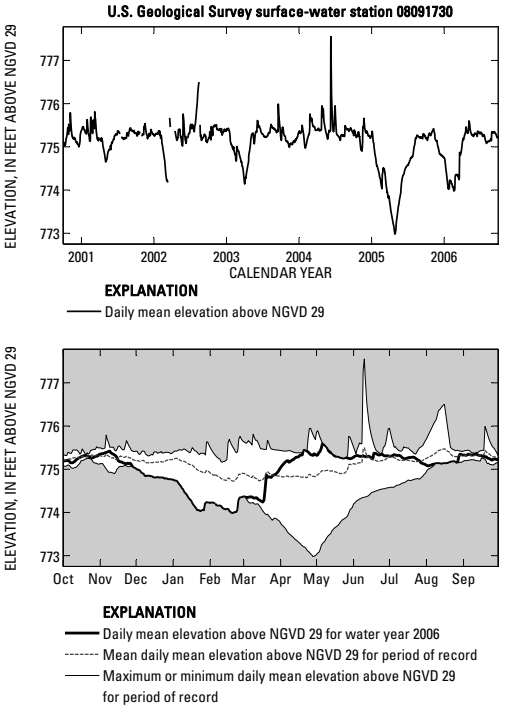


Figure 83. Water-surface-elevation data for U.S. Geological Survey station 08091730 Squaw Creek Reservoir near Glen Rose, Texas.

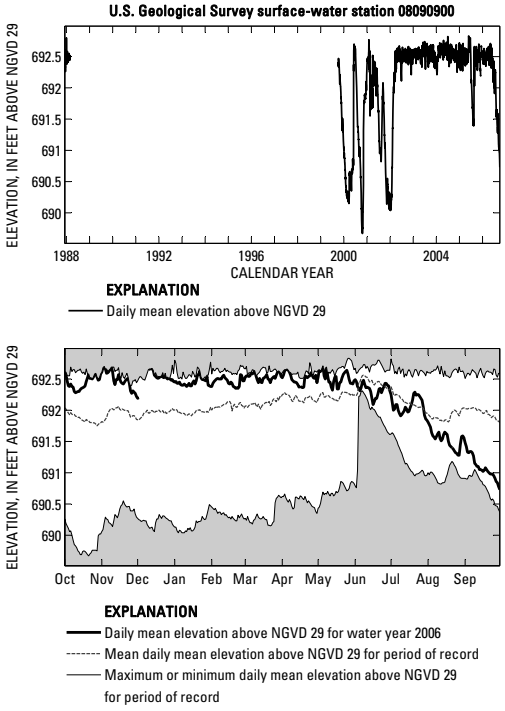


Figure 82. Water-surface-elevation data for U.S. Geological Survey station 08090900 Lake Granbury near Granbury, Texas.

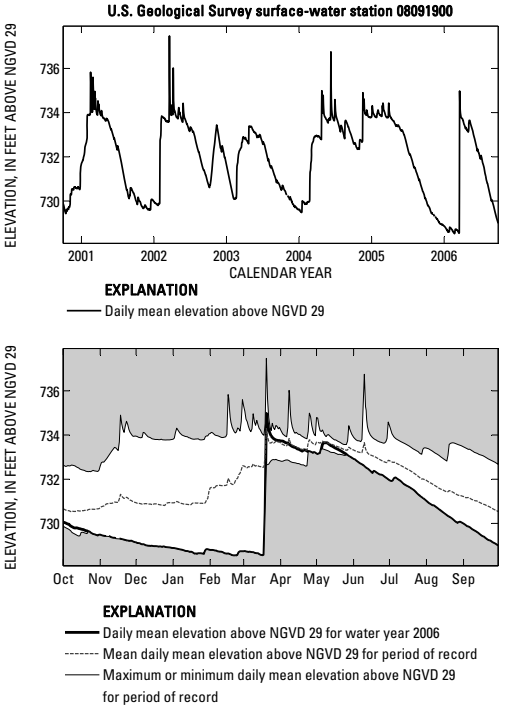


Figure 84. Water-surface-elevation data for U.S. Geological Survey station 08091900 Lake Pat Cleburne near Cleburne, Texas.

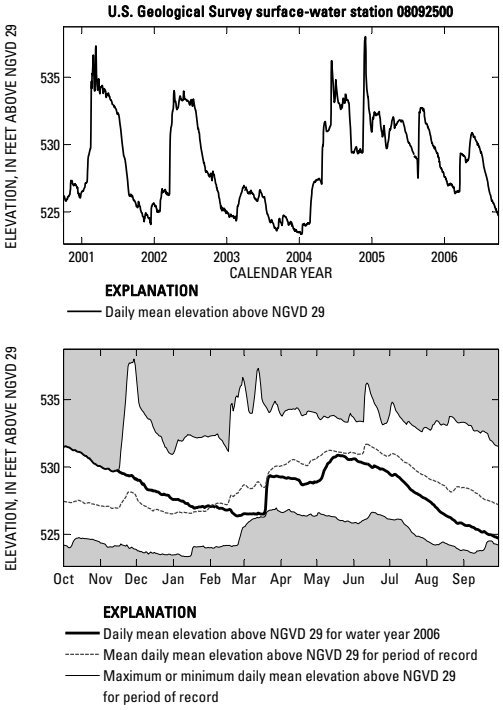


Figure 85. Water-surface-elevation data for U.S. Geological Survey station 08092500 Whitney Lake near Whitney, Texas.

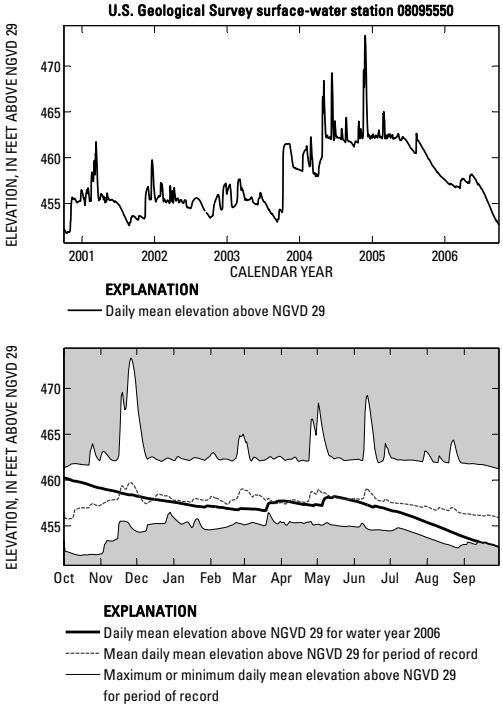


Figure 87. Water-surface-elevation data for U.S. Geological Survey station 08095550 Waco Lake near Waco, Texas.

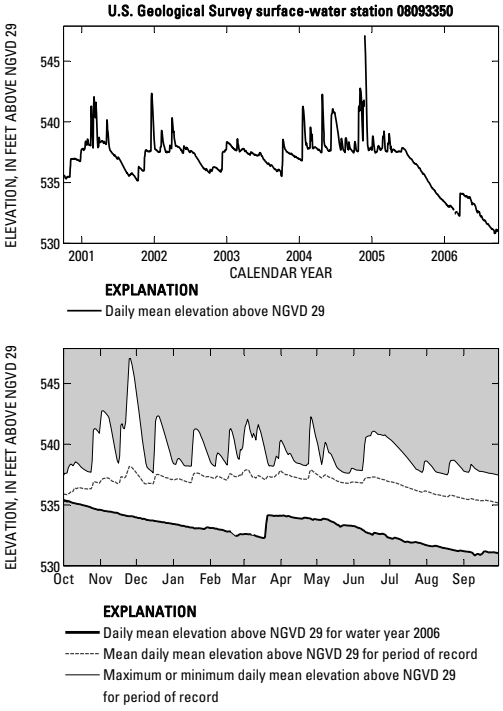


Figure 86. Water-surface-elevation data for U.S. Geological Survey station 08093350 Aquilla Lake above Aquilla, Texas.

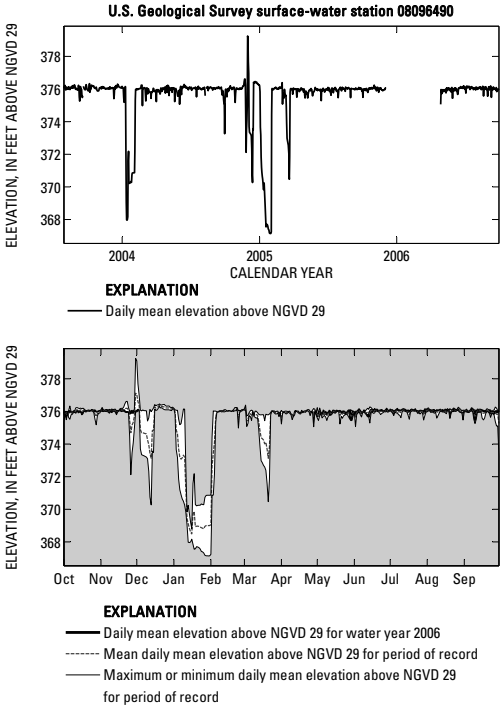


Figure 88. Water-surface-elevation data for U.S. Geological Survey station 08096490 Lake Brazos at Washington Street, Waco, Texas.

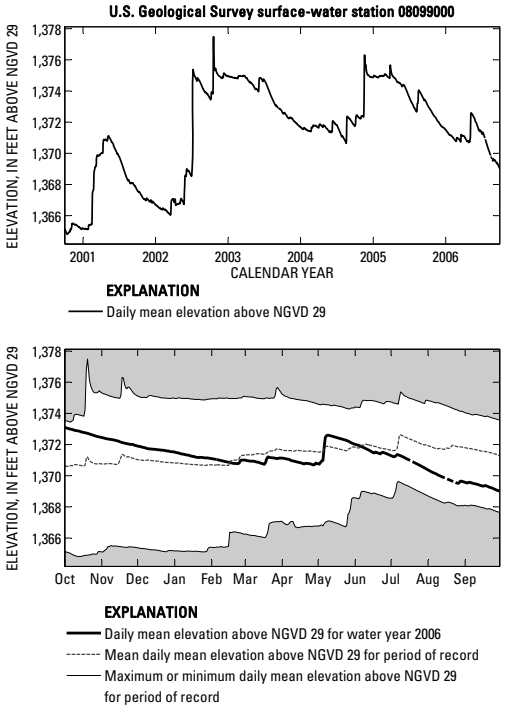


Figure 89. Water-surface-elevation data for U.S. Geological Survey station 08099000 Leon Reservoir near Ranger, Texas.

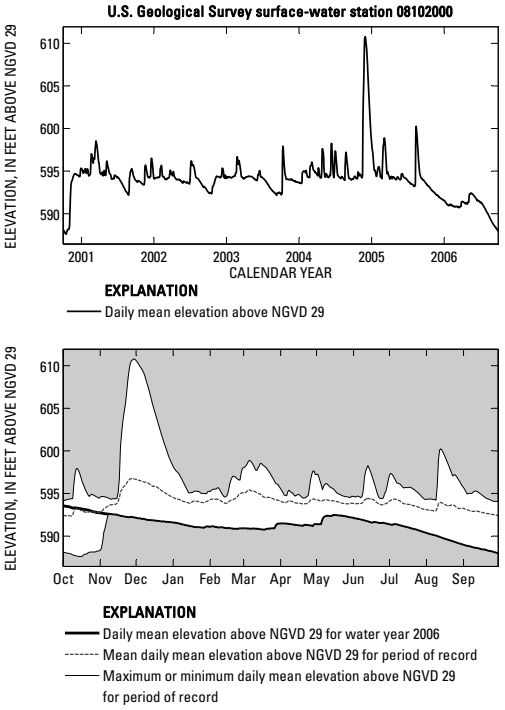


Figure 91. Water-surface-elevation data for U.S. Geological Survey station 08102000 Belton Lake near Belton, Texas.

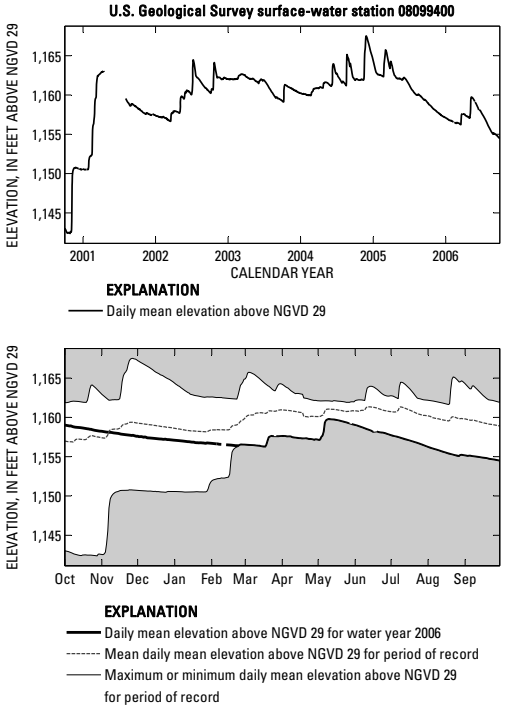


Figure 90. Water-surface-elevation data for U.S. Geological Survey station 08099400 Proctor Lake near Proctor, Texas.

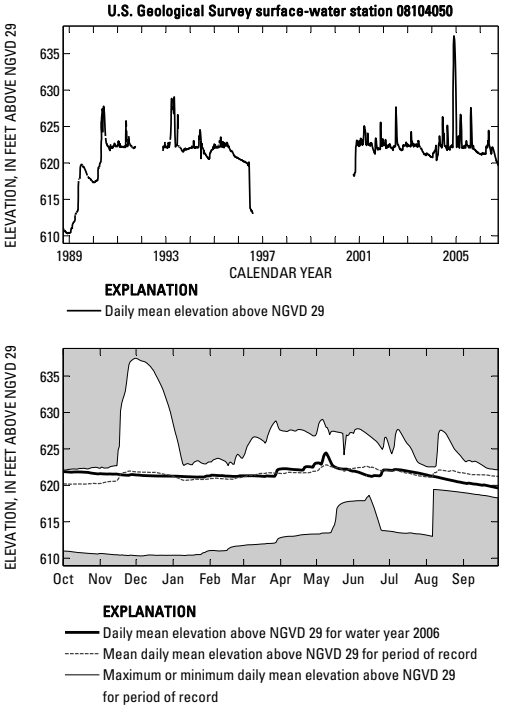


Figure 92. Water-surface-elevation data for U.S. Geological Survey station 08104050 Stillhouse Hollow Lake near Belton, Texas.

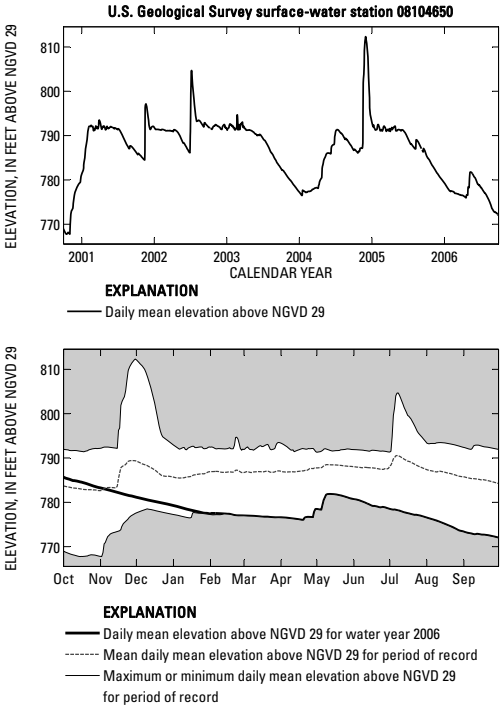


Figure 93. Water-surface-elevation data for U.S. Geological Survey station 08104650 Lake Georgetown near Georgetown, Texas.

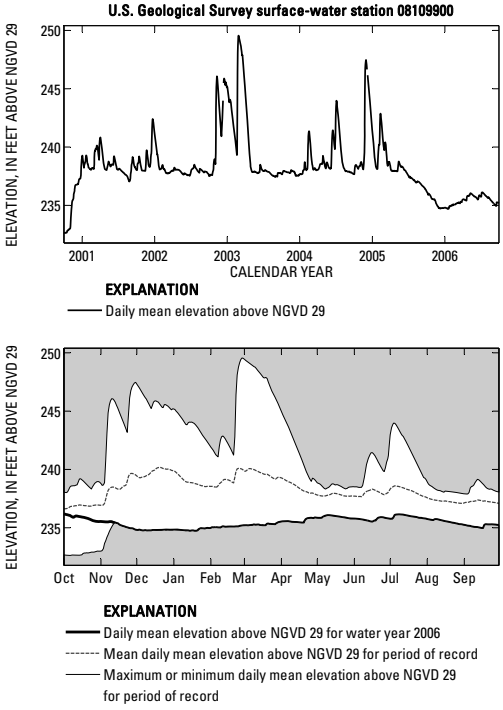


Figure 95. Water-surface-elevation data for U.S. Geological Survey station 08109900 Somerville Lake near Somerville, Texas.

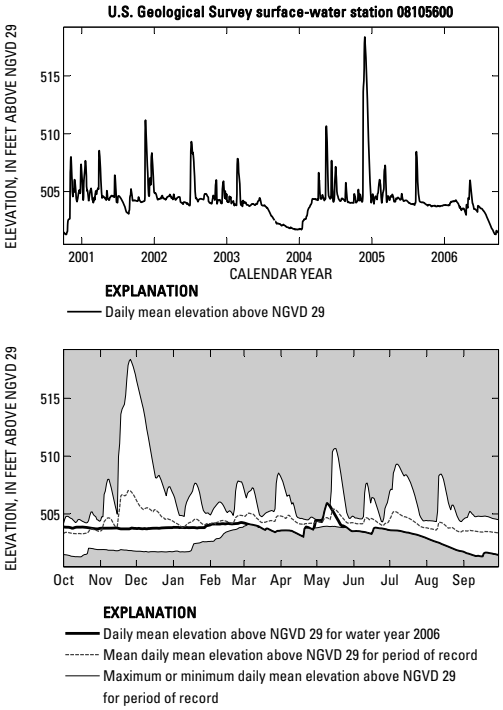


Figure 94. Water-surface-elevation data for U.S. Geological Survey station 08105600 Granger Lake near Granger, Texas.

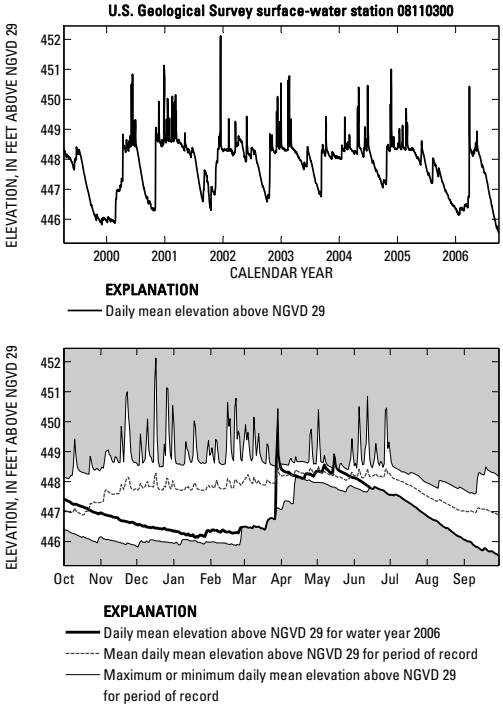


Figure 96. Water-surface-elevation data for U.S. Geological Survey station 08110300 Lake Mexia near Mexia, Texas.

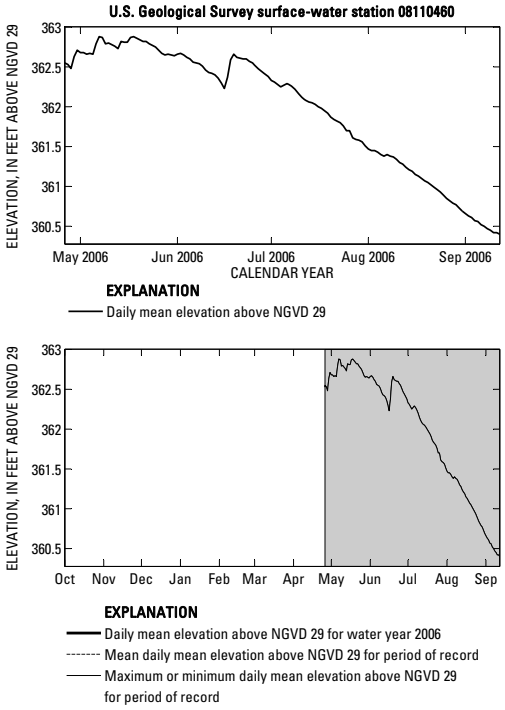


Figure 97. Water-surface-elevation data for U.S. Geological Survey station 08110460 Lake Limestone at Lake Limestone Marina near Farrar, Texas.

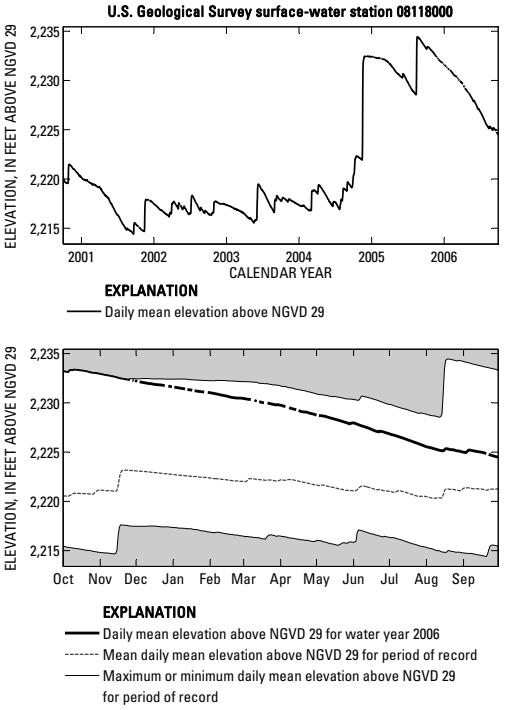


Figure 99. Water-surface-elevation data for U.S. Geological Survey station 08118000 Lake J.B. Thomas near Vincent, Texas.

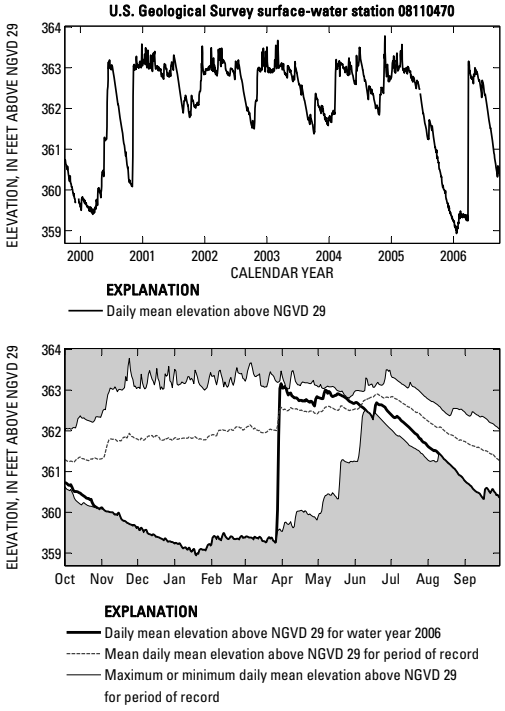


Figure 98. Water-surface-elevation data for U.S. Geological Survey station 08110470 Lake Limestone near Marquez, Texas.

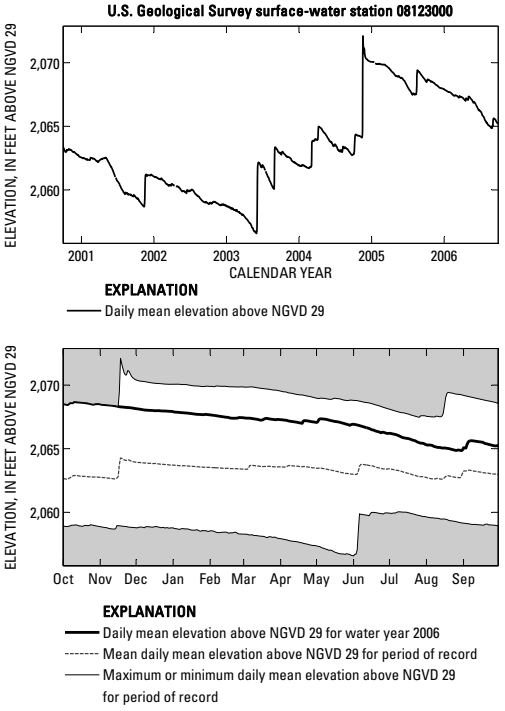


Figure 100. Water-surface-elevation data for U.S. Geological Survey station 08123000 Lake Colorado City near Colorado City, Texas.

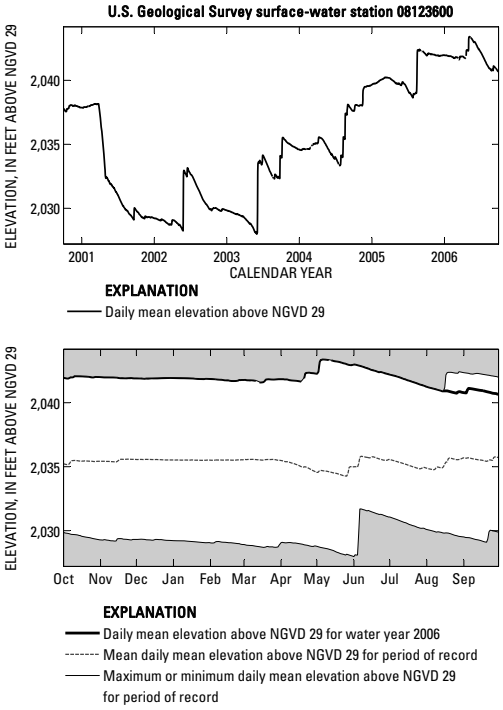


Figure 101. Water-surface-elevation data for U.S. Geological Survey station 08123600 Champion Creek Reservoir near Colorado City, Texas.

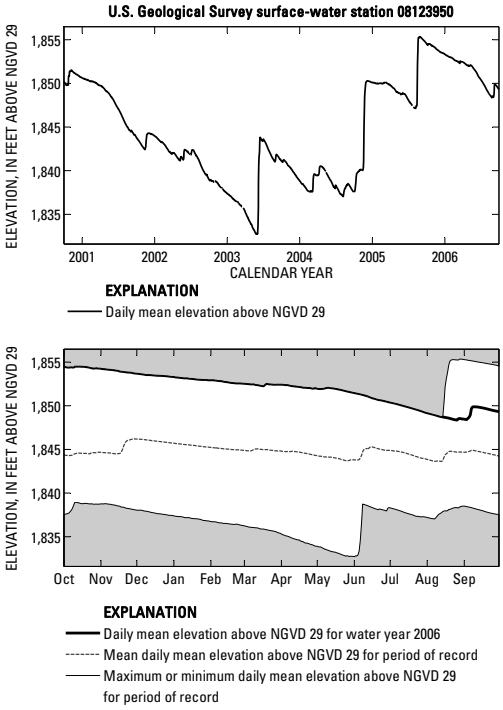


Figure 103. Water-surface-elevation data for U.S. Geological Survey station 08123950 E.V. Spence Reservoir near Robert Lee, Texas.

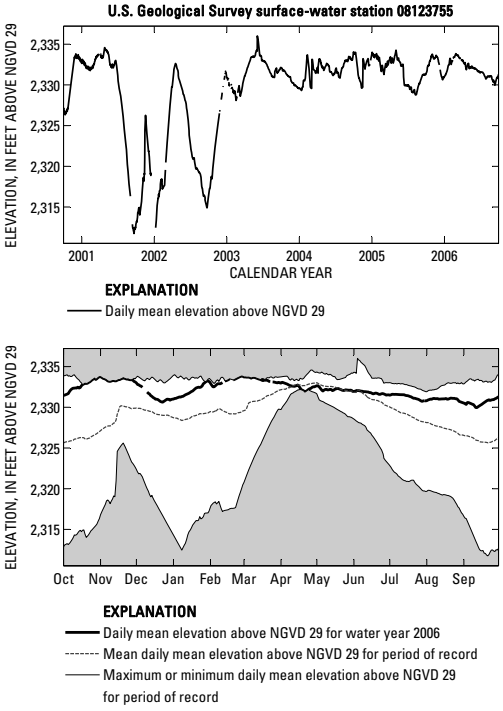


Figure 102. Water-surface-elevation data for U.S. Geological Survey station 08123755 Moss Creek Lake near Coahoma, Texas.

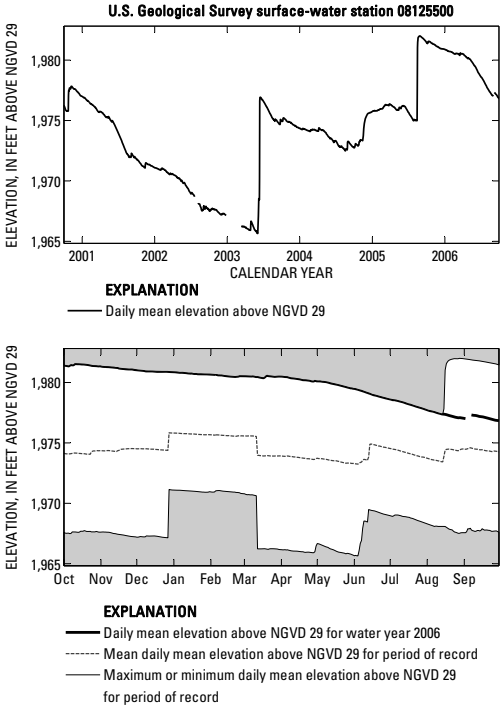


Figure 104. Water-surface-elevation data for U.S. Geological Survey station 08125500 Oak Creek Reservoir near Blackwell, Texas.

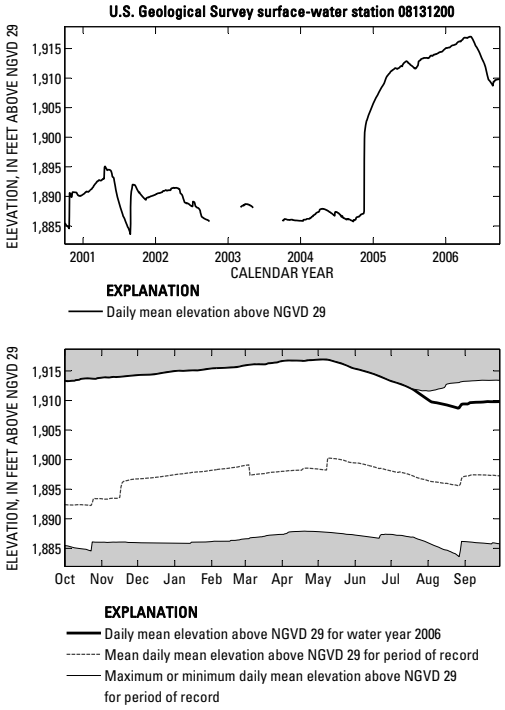


Figure 105. Water-surface-elevation data for U.S. Geological Survey station 08131200 Twin Buttes Reservoir near San Angelo, Texas.

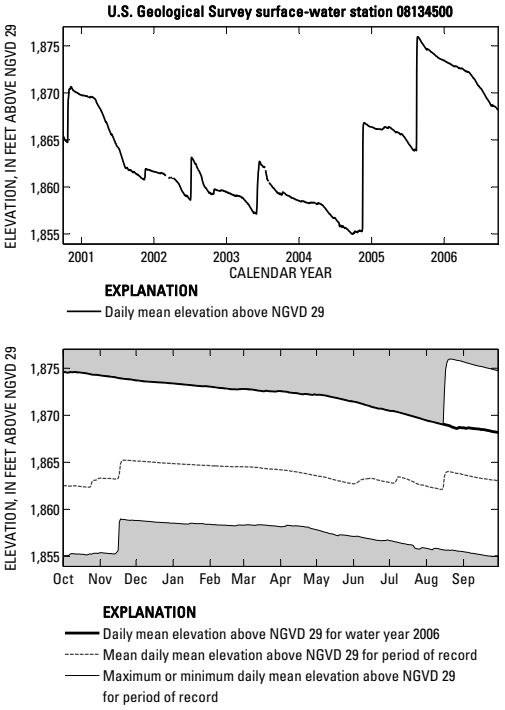


Figure 107. Water-surface-elevation data for U.S. Geological Survey station 08134500 O.C. Fisher Lake at San Angelo, Texas.

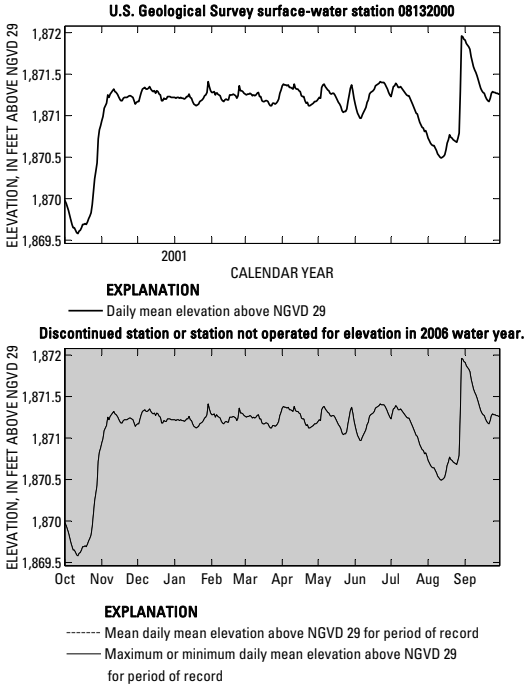


Figure 106. Water-surface-elevation data for U.S. Geological Survey station 08132000 Lake Nasworthy near San Angelo, Texas.

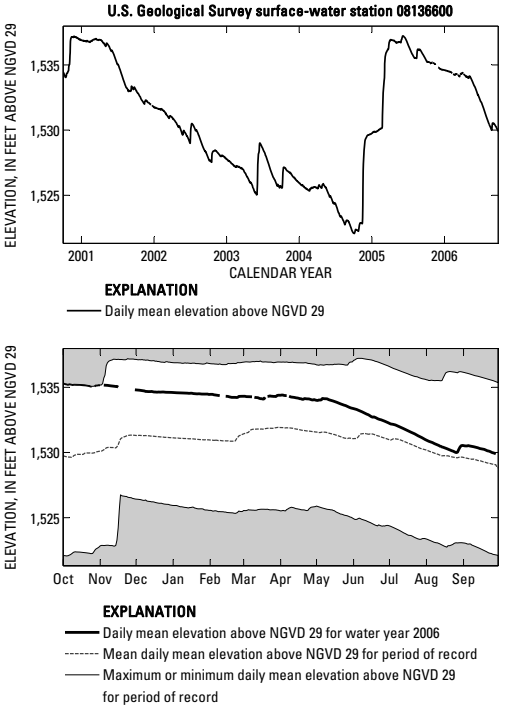


Figure 108. Water-surface-elevation data for U.S. Geological Survey station 08136600 O.H. Ivie Reservoir near Voss, Texas.

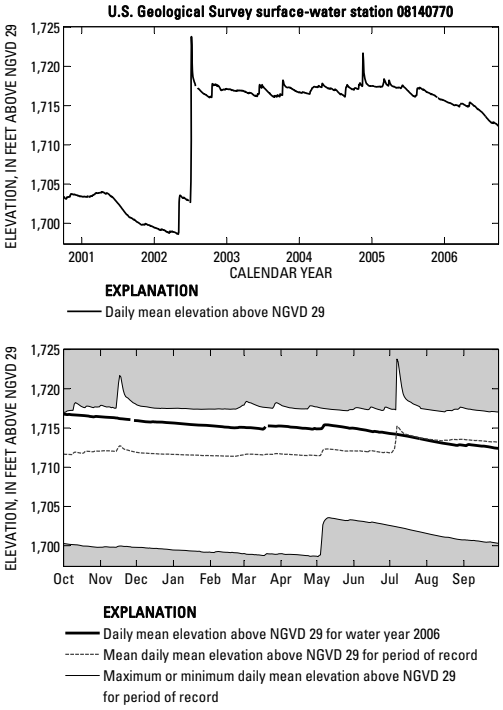


Figure 109. Water-surface-elevation data for U.S. Geological Survey station 08140770 Lake Coleman near Novice, Texas.

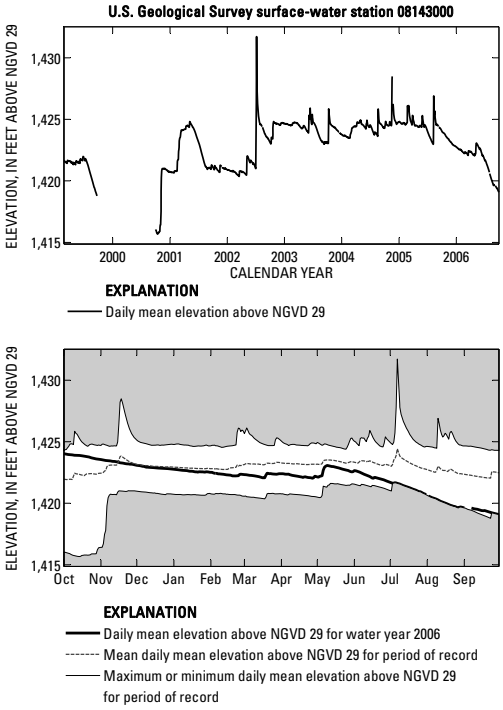


Figure 111. Water-surface-elevation data for U.S. Geological Survey station 08143000 Lake Brownwood near Brownwood, Texas.

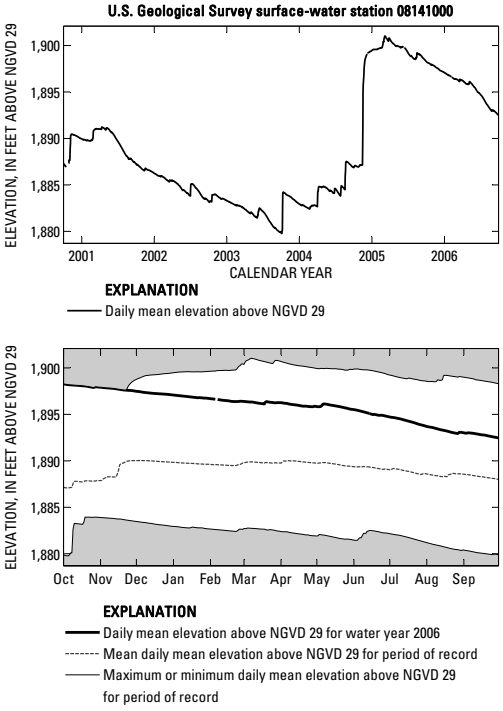


Figure 110. Water-surface-elevation data for U.S. Geological Survey station 08141000 Hords Creek Lake near Valera, Texas.

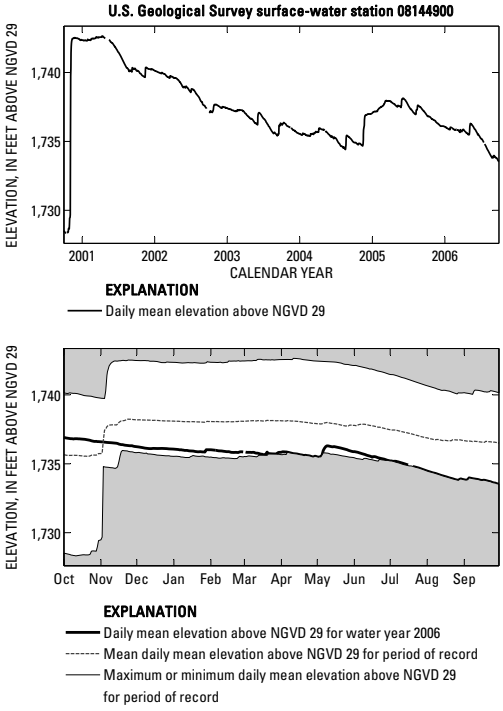


Figure 112. Water-surface-elevation data for U.S. Geological Survey station 08144900 Brady Creek Reservoir near Brady, Texas.

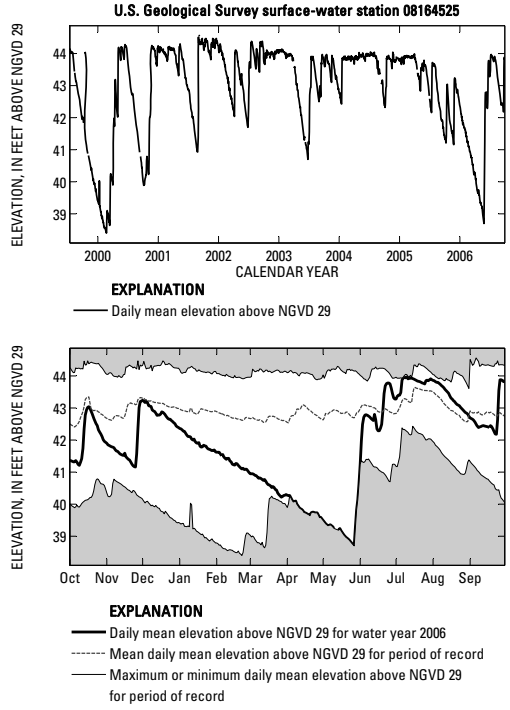


Figure 113. Water-surface-elevation data for U.S. Geological Survey station 08164525 Lake Texana near Edna, Texas.

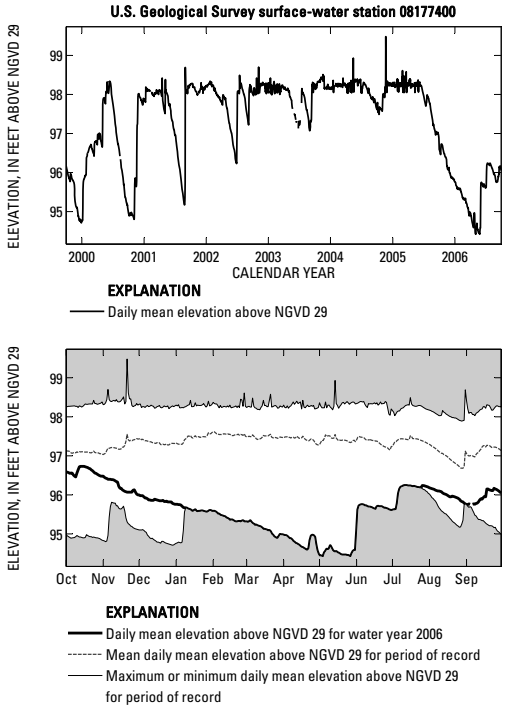
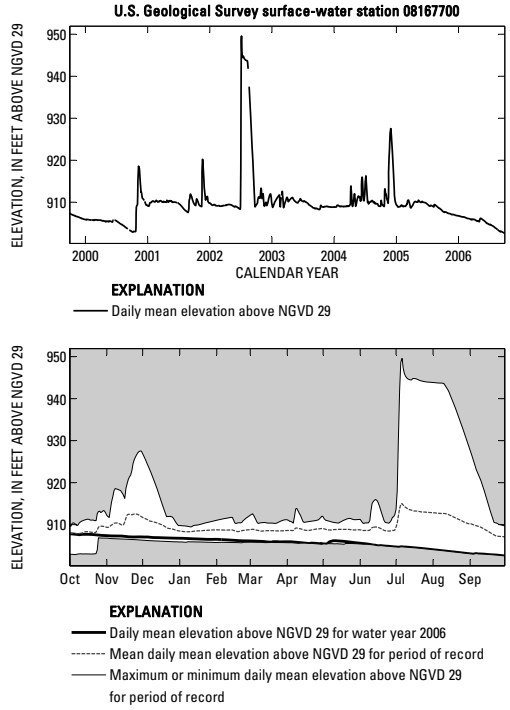


Figure 115. Water-surface-elevation data for U.S. Geological Survey station 08177400 Coleto Creek Reservoir near Victoria, Texas.



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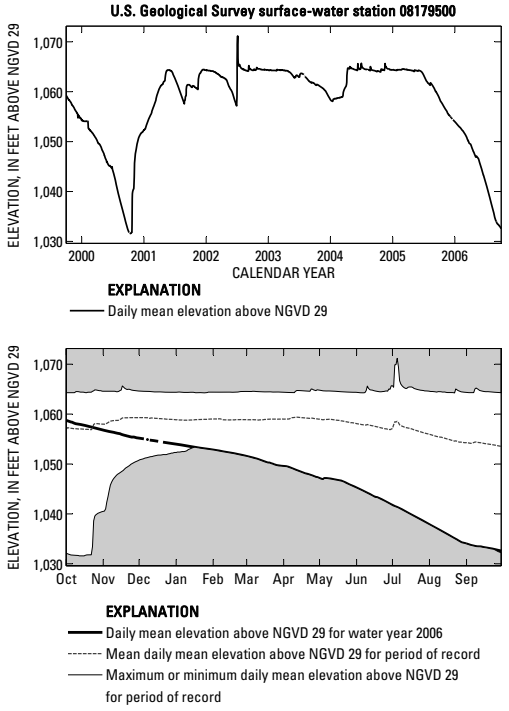


Figure 116. Water-surface-elevation data for U.S. Geological Survey station 08179500 Medina Lake near San Antonio, Texas.

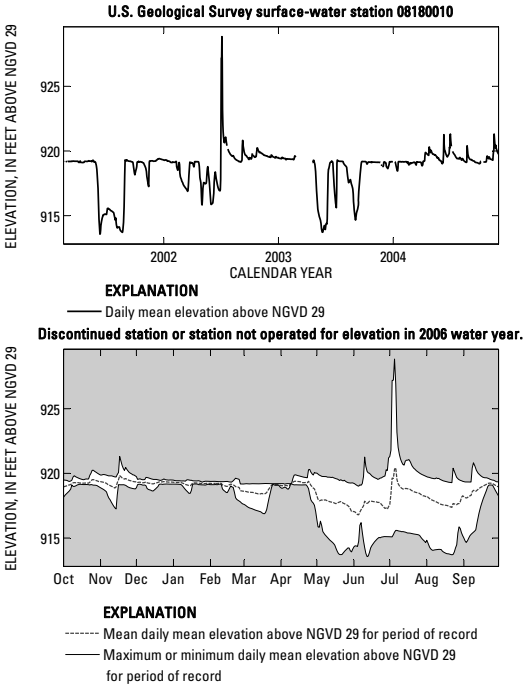


Figure 117. Water-surface-elevation data for U.S. Geological Survey station 08180010 Diversion Lake near Riomedina, Texas.

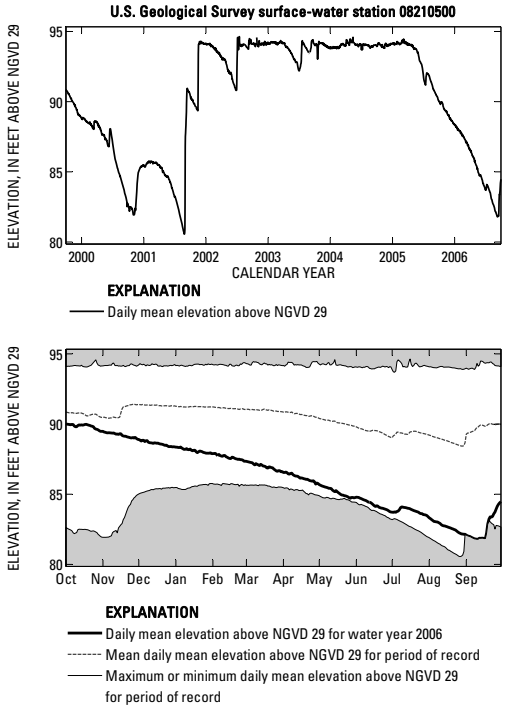
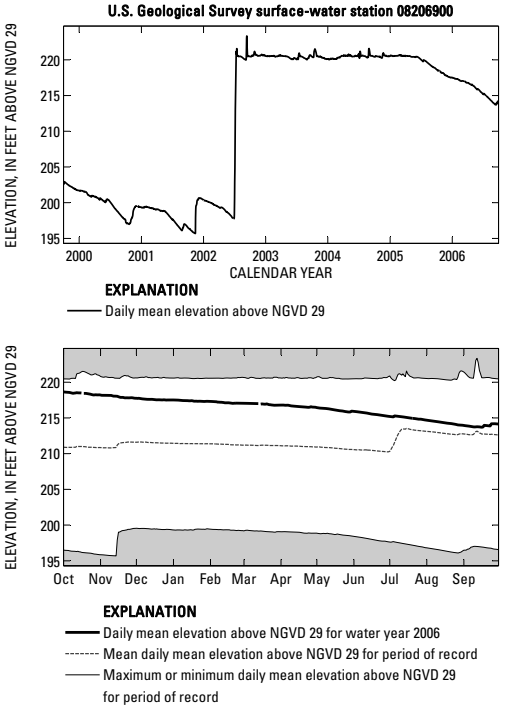


Figure 119. Water-surface-elevation data for U.S. Geological Survey station 08210500 Lake Corpus Christi near Mathis, Texas.



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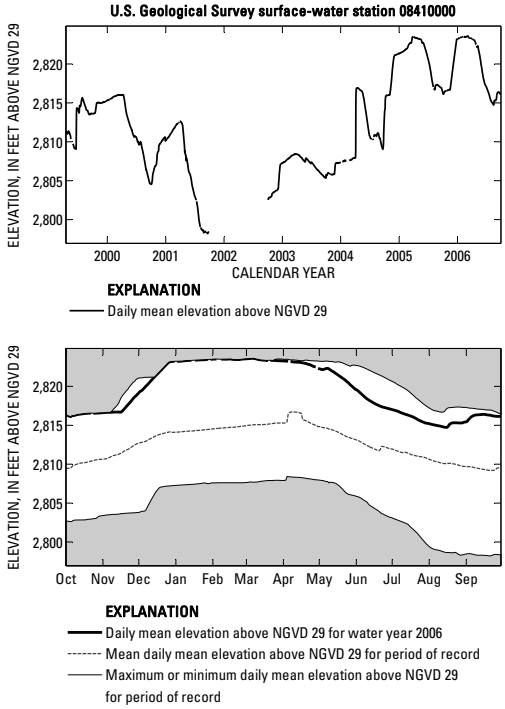

Figure 120. Water-surface-elevation data for U.S. Geological Survey station 08410000 Red Bluff Reservoir near Orla, Texas.

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08095550 31
08096490 31
08099000 32
08099400 32
08102000 32
08104050 32
08104650 33
08105600 33
08109900 33
08110300 33

08110460 34
08110470 34

Colorado River Basin

08118000 34
08123000 34
08123600 35
08123755 35
08123950 35
08125500 35
08131200 36
08132000 36
08134500 36
08136600 36
08140770 37
08141000 37
08143000 37
08144900 37

Lavaca River Basin

08164525 38

Guadalupe River Basin

08167700 38
08177400 38

Guadalupe River Basin: San Antonio River Basin

08179500 38
08180010 39

Nueces River Basin

08206900 39
08210500 39

Rio Grande Basin

08410000 39

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Information regarding water resources in Texas is available at
http://tx.usgs.gov