US Army Corps
of Engineers ®

Fort Worth District

CANYON DAM AND LAKE
GUADALUPE RIVER
GUADALUPE RIVER BASIN, TEXAS

WATER CONTROL MANUAL
APPENDIX I
MASTER RESERVOIR REGULATION MANUAL

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
FORT WORTH DISTRICT

SEPTEMBER 2018

ORIGINAL MARCH 1971
REVISED (RESERVOIR REGULATION PLAN) JANUARY 2005

CANYON DAM AND LAKE

NOTICE TO USERS OF THIS MANUAL

Regulations specify that this Water Control Manual be used in loose-leaf form, and only those sections or parts thereof requiring changes will be revised and printed. Therefore, this copy should be preserved in good condition so that inserts can be made to keep the manual current. All elevations referred to in this Water Control Manual, unless noted otherwise, are in feet, National Geodetic Vertical Datum of 1929 (NGVD29). The datum conversion from NGVD29 to NAVD88 is: NGVD29 + 0.3 feet = NAVD88 for Canyon Dam and Lake.

EMERGENCY REGULATION ASSISTANCE PROCEDURES

Assistance with the flood control regulations of Canyon Dam will be provided during duty hours by the Fort Worth District Water Management Branch 817-886-1551. During non-duty hours, assistance can be obtained by contacting the Primary Regulator (817) 791-0973 cell number and in the order listed, one of the following persons:

EMERGENCY PERSONNEL ROSTER

Title and Name	Residence/Cell Telephone
Primary Regulator	817-791-0973
Chief, Water Resources Branch Redacted PII	817-886-1542
Chief, Water Management Section Redacted PII	817-886-1682
Chief, E&C Division Redacted PII	Redacted PII
Chief, Operations Division Redacted PII	Redacted PII
Manager, Capital Region Manager Redacted PII	Redacted PII
Deputy OPM, Redacted PII	Redacted PII
Manager, Canyon Lake Redacted PII	Redacted PII
Water Management, Southwestern Division–Dallas CESWD-RBT-W (Water Management and Infrastructure Safety) Chief, Redacted PII, Ph. D. P.E.	Redacted PII
Hydraulic Engineer, Redacted PII	Redacted PII

CANYON DAM AND LAKE
GUADALUPE RIVER BASIN, TEXAS

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LOCATION: In Comal County, R.M. 303.0 on the Guadalupe River, 12 miles northwest of New Braunfels, Texas, and 38 miles northeast of San Antonio, Texas.

DRAINAGE AREA:

1,425 square miles (total);	
One inch of runoff	76,000 acre-feet

DAM:

Type:	Rolled earth fill
Length (including dikes and spillway):	6,760 feet
Maximum Height:	224 feet
Top Width:	20 feet

SPILLWAY:

Crest Elev.:	943.0 feet NGVD29
Length:	1,260 feet
Type:	Broad crested
Control:	None

INFLOW:

Spillway Design Flood peak, cfs (1959 Study)	687,000
Spillway Design Flood volume, ac-ft (1959 Study)	1,285,800
Spillway Design Flood runoff, inches (1959 Study)	16.92
Probable Maximum Flood peak, cfs (1983 Study)	750,641
Probable Maximum Flood volume, ac-ft (1983 Study)	1,748,000
Probable Maximum Flood runoff, inches (1983 Study)	23.00

OUTFLOW:

Total routed peak outflow, cfs (1959 Study)	508,000
Probable Maximum Flood total, cfs (1983 Study)	627,608

OUTLET WORKS:

Type:	One gate controlled conduit
Dimensions:	9.33 feet diameter***
Invert Elev.:	775.0 feet NGVD29
Control:	2 hydraulically operated slide gates, 5.67 feet x 10 feet

POWER FEATURE: Guadalupe-Blanco River Authority (GBRA) built a Hydroelectric Power Plant in August 1987 and it was put into service in February 1989. The plant is operated and maintained through a license from the Federal Energy Regulatory Commission, with permits from TCEQ and the USACE.

Feature	Elev Feet* (NGVD29)	Reservoir Area (acres)	Reservoir Capacity			Spillway Capacity (cfs)	Outlet Works Capacity (cfs)	Low Flow Outlet Capacity (cfs)
			Accumu-lative (ac-ft)	Runoff (inches)	Incremental (ac-ft)			
Top of Dam	974.0							
PMF Design Water Surface (1983 Study)	973.4	17,890	1,204,100	15.84		627,608	0	
Max. Design Water Surface (1959 Study)	969.1	17,120	1,129,300	14.86		502,800	5,200	
Top of Flood Control Pool and Spillway Crest (1959 Study)	943.0	12,890	740,900	9.75			5,100	
Top of Conservation Pool (2000 Survey)	909.0	8,309	378,852	4.98			4,600	
Sediment Reserve**								
Maximum Tailwater at Mouth of Spillway Channel	813.9							
Streambed (1959 Study)	750.0							

* The elevations listed on the pertinent data sheet is based on the datum of NGVD29. The datum conversion from NGVD29 to NAVD88 is: NGVD29 + 0.3 feet = NAVD88. **Original sediment reserve for 50 years estimated: 19,800 acft below elevation 909.0 feet and 8,300 acft between elevations 909.0-943.0. ***Original 10 feet diameter modified to 9 feet 4 inches steel-lined for hydropower in 1988.

AUHORIZATION: Federal River and Harbor Act of 2 March 1945 (Public Law 14, 79th Congress, 1st Session); (HD 247/76/1); Modified by Flood Control Act approved 3 September 1954 (PL 83-780).*

FINAL PROJECT COST (FY 76):

Federal:	$17,435,641.44
Non-Federal:	$ 1,400,000.00**
Total:	$18,835,641.44

ANNUAL O&M COST (FY 14):

Federal:	$2,380,000
Non-Federal:	$ 449,000
Total:	$2,829,000

COST ALLOCATION METHOD: Separable costs – remaining benefits

LOCAL AGENCY: Guadalupe-Blanco River Authority

LAND ACQUISITION:

	: Guide Contour (NGVD29)	: Area (Acres)
Fee Simple	918.0	10,987
Easement	948.0	3,620
Total		14,607

FLOOD DATA:

Date	Peak Inflow*** (cfs)
December 1913 (Historical)	140,000
July 1932	95,200
June 1935	101,000
July 1987	61,300 (1)
August 1987	120,000 (1)
Dec 1991	70,400 (1)
Jun 1997	109,600 (1)
Jul 2002	108,300 (1)
Aug 2007	68,800 (1)
May 2015	94,500 (1)
Oct 2015	98,400 (1)

Bankfull capacity: Guadalupe River at New Braunfels - 28,000 cfs;
***Gaging Station: Guadalupe River above Comal River at New Braunfels, TX.
(1) Calculated from change in lake storage contents.

STATUS OF PROJECT: Construction began 27 June 1958. Main dam and spillway completed in FY 1964. Deliberate impoundment started 16 June 1964. Project is complete and operational.

**NON-FEDERAL PARTICIPATION AND LOCAL COOPERATION:
A water supply storage contract with the Guadalupe-Blanco River Authority (GBRA) was approved on 24 October 1957 for 100 percent (366,400 ac-ft) of the conservation storage between elevations 800.0 and 909.0 ft NGVD29. GBRA has paid $8,949,861.84, in addition to their share of the annual O&M cost, for this water supply storage space.

REMARKS: *PL 83-780 provides for local interest's contribution during construction and permits construction of hydroelectric power facilities at non-Federal expense.

HYDROPOWER FACILITIES:
The Guadalupe-Blanco River Authority (GBRA) controls the improvements of all existing hydroelectric facilities in the Guadalupe River Basin.

Dependable Yield: 139 cfs or 89.8 MGD based on critical dry period and 50 years of sediment.

Annual Visitation (10-year average, 2002-2012): 605,560

Shoreline at top of conservation pool (2000 Survey): 93 miles

CANYON DAM AND LAKE
GUADALUPE RIVER, TEXAS
WATER CONTROL MANUAL

CHAPTER I – INTRODUCTION

1-01. Authorization. This manual is submitted as required by Engineering Regulation (ER) 1110-2-240, Water Control Management, dated 30 May 2016, and is prepared in accordance with ER 1110-2-8156, Engineering and Design, Preparation of Water Control Manuals, dated 30 September 2018.

1-02. Purpose and Scope. The purpose of this manual is to document the Canyon Dam and Lake Regulation plan. This manual also provides a concise reference source for higher authority personnel who will be concerned with or responsible for reservoir regulations during the life of the project. This manual also includes the regulation plan for Canyon Dam and Lake and the background material necessary to understand the purpose and application of the plan.

1-03. Related Manuals and Reports. This manual is Appendix I to the Guadalupe River Basin Water Control Master Manual. The Canyon Dam and Lake on the Guadalupe River was authorized for the construction by the River and Harbor Act, approved 2 March 1945 (Public Law No. 14, 79th Congress, 1st session). The River and Harbor Act of 1945 was approved in accordance with the plan outlined in the House Document No. 247 (76th Congress, 1st session). Authority for initiation of the detailed preconstruction planning is contained in the public works Appropriation Act of 1956, approved 15 July 1955 (Public Law 163, 84th Congress, 1st session), and in advice of allotment C-29 dated 3 August 1955. The project was modified by the Flood Control Act, approved 3 September 1954 (Public Law 780, 83rd Congress, 2nd session) to increase the total storage capacity to provide for a local contribution during construction, and to permit the construction of hydroelectric power facilities at non-Federal expense. The definite project studies were initiated following authorization of the project in 1945 and a Definite Project Report was submitted in October 1951. Subsequent to the submission of the Definite Project Report a further review was made of the project in accordance with the criteria expressed in Bureau of the Budget Circular A-47. The findings in the Budget Circular A-47 were presented to higher authority in Design Memorandum No. 1 dated March 1954 which served as a basis for project modification. The Definite Project Report and the revisions contained in Design Memorandum No. 1 established general locations for dam embankment, uncontrolled spillway and outlet works. In March 1971, the Fort Worth District (SWF) of the United States Army Corps of Engineers (USACE) published a reservoir regulation manual for Canyon Dam and Lake. The manual contains plans and procedures for regulation of the reservoir during both normal and flood conditions. In addition, portions of the March 1971 Canyon Lake Water Control Manual were revised in January 2005.

The reports and design memorandums important to the regulation of Canyon Dam and Lake are listed in Table 1-1.

TABLE 1-1

Related Manuals and Reports for Canyon Dam and Lake

	Title	Date
1.	Definite Project Report (Revised by Design Memorandum No. 1)	October 1951
2.	Design Memorandum No. 1	March 1954
	- Section I - Hydroelectric Power	
	- Section II - Revised Economics	
	- Section III - Alternative Plan	
3.	Design Memorandum No. 2 - Real Estate	
	- Part 1 First Increment - Construction Area	November 1955
	- Part II First Increment - Cemeteries in Construction Area	January 1956
	- Part II Second Increment - Cemeteries in Construction Area	March 1958
	- Part II Third Increment - Cemeteries in Construction Area	December 1957
	- Part II Fourth Increment - Cemeteries in Construction Area	May 1958
4.	Design Memorandum No. 3 - Access Roads and Construction Facilities	December 1955
	Including Construction for FY 1956	February 1956 (Revised)
5.	Design Memorandum No. 4 - Earth Dam	October 1957
6.	Design Memorandum No. 5 - Outlet Works	November 1957
7.	Design Memorandum No. 6 - Relocations	
	- Part I, County Roads (Revised)	March 1958
	- Part II Power Lines	
	Section A - Pedernales Electric Cooperatives, Inc.	January 1958
	Section B - Pedernales Electric Cooperative, Inc. (Reservoir Area only)	January 1960
	- Part III Telephone Lines	
	Section A - Dam Construction Area only	March 1957
	Section B - Reservoir Area only	January 1960
8.	Design Memorandum No. 7 - Spillway	January 1958
9.	Design Memorandum No. 8 - Clearing	August 1960
10.	Design Memorandum No. 9 - Recreation Facilities	
	- Part 1 Preliminary Recreation Plan	September 1956
	- Part II Recreation	May 1960
11.	Design Memorandum No. 10 - Clearing	May 1957
12.	Design Memorandum No. 11 - Availability of Materials	October 1957
13.	Design Memorandum No. 12	
	- Hydrology (Revised)	November 1957
	- Hydrology (Revised), Supplement No. 1	February 1959
14.	Design Memorandum No. 13 - General Design Memo (Revised)	June 1958
15.	Design Memorandum No. 16 - Shelter for Fallout Protection	September 1962

TABLE 1-1 (CONTINUED)

Related Manuals and Reports for Canyon Dam and Lake

	Title	Date
16.	Horizontal and Vertical Control for Dam Site Work Areas and Reservoir Area	January 1964
17.	Reconnaissance Report, Guadalupe River Texas, Canyon Lake, Modification of Embankment	October 1979
18.	Intermediate Report, Adding Hydropower to Canyon Dam	April 1982
19.	Canyon Lake Dam Safety Assurance Study, Hydrology and Hydraulics	March 1983
20.	Canyon Regional Water Authority, Regional Water Supply Study, Final Report	June 1990
21.	Canyon Lake – Water Quality Report	December 1994
22.	Canyon Lake, Guadalupe River, Texas, Flood Emergency Plan	February 1998
23.	Volumetric Survey of Canyon Lake	November 2001
24.	Canyon Lake Issue Evaluation Study Review Plan Approval	November 2012
25.	Periodic Inspection Report #12	October 2018

1-04. Project Owner. USACE-SWF owns and operates Canyon Dam and Lake.

1-05. Operating Agency. USACE-SWF is the operating agency for Canyon Dam and Lake. The Lake Manager at Canyon Dam has the responsibility for its operations and management of the lake. The Fort Worth District Engineer, through the Water Resources Branch of the Engineering and Construction Division, directs water control activities.

The Guadalupe-Blanco River Authority (GBRA) operates the hydroelectric power project downstream of Canyon Dam on the Guadalupe River Basin. The GBRA is responsible for the operation and maintenance of the hydropower plant.

The project is staffed during normal working hours throughout the year. The Lake Manager at Canyon Dam has the responsibility for its operations. Park Rangers are also available on holidays and weekends to provide assistance with the lake operations. The project will be staffed 24 hours a day when the lake level is, or is forecast to rise above elevation 940.0 feet.

The Lake Manager will have a current list of the Water Resources Branch personnel including home telephone numbers to contact when necessary. The Lake Manager will furnish the Water Resources Branch a list of project personnel, giving their office and home telephone numbers. The Lake Manager resides as close to the project as is considered prudent to carry out his official duties.

1-06. Regulating Agencies. USACE is the regulatory agency for Canyon Dam and Lake. The regulation of the dam is the responsibility of the Water Resources Branch of the Engineering and Construction Division, Fort Worth District.

CHAPTER II – DESCRIPTION OF PROJECT

2-01. Location. Canyon Dam and Lake are located on the Guadalupe River at river mile 303.0. The dam is located in Comal County, Texas approximately 12 miles northwest of New Braunfels, Texas, and 38 miles northeast of San Antonio, Texas. The total drainage area above Canyon Dam is 1,432 square miles. The Guadalupe River Basin is shown on Plates 2-1a and the water shed above Canyon Dam is shown on Plate 2-1b.

2-02. Purpose. Canyon Dam and Lake are a multi-purpose project used for flood control, water supply, hydropower, fish and wildlife, and recreation. The project is a unit of the Guadalupe River Basin System, which includes various channel improvements operated to provide flood protection in the Guadalupe River Basin. An aerial view of Canyon Dam is shown in Figure 2-1.

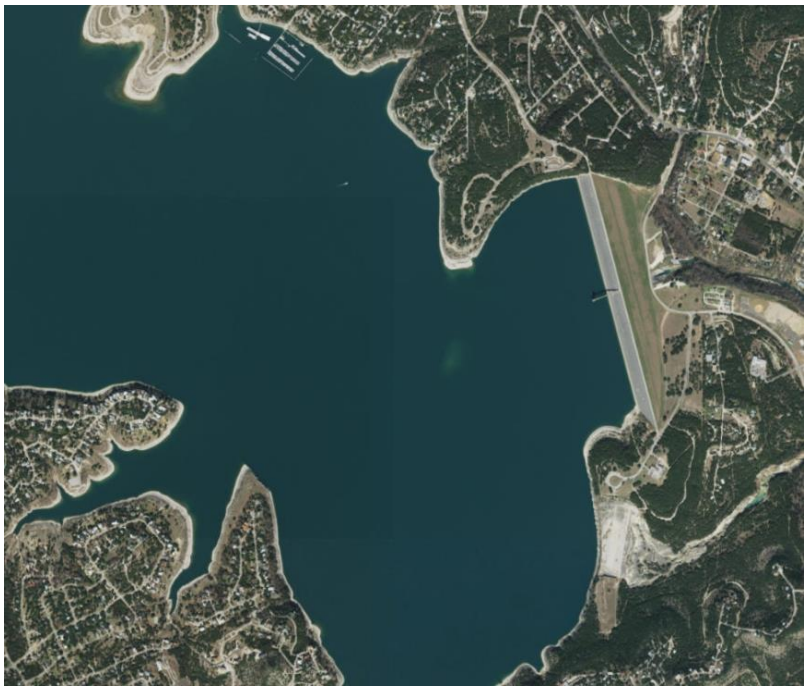

Figure 2-1. Aerial View of Canyon Dam

2-03. Physical Components. Canyon Dam Project consists of an earth embankment, broad crested spillway, two dikes, outlet works and hydropower facility. The general plan of the embankment and spillway is shown on Plate 2-2. Additional information on Canyon Dam and Lake is provided in Exhibit A, Supplementary Pertinent Data.

a. Embankment. The embankment is 4,620 feet long and constructed with contacted earthfill. The top of the dam is at elevation 974.0 feet with a maximum height of 224 feet. The width of the crest is 20 feet and is a paved asphalt service road. The embankment is constructed with a homogeneous fill of impervious materials. A random rock fill to elevation 830.0 feet

forms the upstream toe of the dam. Side slopes of the embankment vary between 1V to 2.5H and 1V to 3H with the steeper slopes at the higher elevations. The upstream face of the embankment above the rock fill is protected by 1.5 feet of riprap placed on six inch bedding. The embankment was constructed with a drainage blanket system located downstream of the crest. The five feet thick horizontal drainage blanket starts at the toe of the downstream embankment and extends about 500 feet and connected to a vertical drainage blanket. The vertical drainage blanket has a horizontal width of ten feet that extends upward to elevation 943.0 feet. The downstream slope is protected from erosion by grass above the top of the drainage blanket.

The upstream and downstream views of embankment are shown in Figure 2-2 through Figure 2-5.

Figure 2-2. Upstream View of Embankment and Intake Tower

Figure 2-3. Upstream View of Embankment

Figure 2-4. Dam Road and Downstream View of Embankment

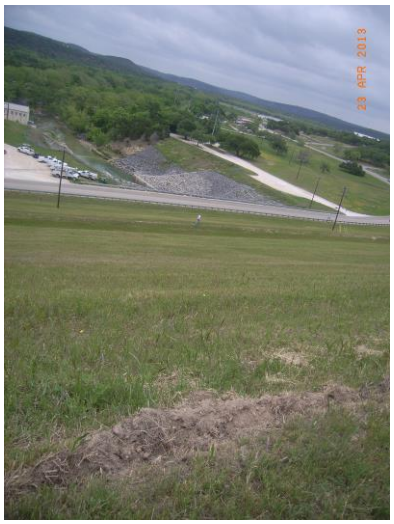

Figure 2-5. Downstream View of Embankment

b. Dikes. The Canyon Dam Project was constructed with two dikes. The first dike is located just south of the spillway and was constructed with excavated material from the spillway cut. The dike has crest elevation of 974 and is 880 feet in length. The second dike, known as

Dike A, is located approximately 3,000 feet southwest of the rock-cut spillway. Dike A has a crest elevation of 794 and is 210 feet in length.

c. Spillway. The spillway is a 1,260 feet long uncontrolled broad crested weir located in a saddle on the right bank approximately 3,800 feet south of the outlet works structure. The crest of the spillway is at elevation 943.0 feet. The spillway has a discharge capacity of 502,800 cubic feet per second (cfs) when the lake is at the maximum design water surface elevation 969.1 feet. The spillway plan, profile and sections are shown on Plate 2-3. The crest of spillway and spillway retaining wall are shown in Figures 2-6 and 2-7, respectively. A 20-foot deep cutoff wall was installed just downstream of the original spillway crest sill as a result of the erosion of the spillway discharge channel during the July 2002 flood, in order to prevent future head cutting.

Figure 2-6. Crest of Spillway

Figure 2-7. Spillway Retaining Wall

d. Outlet Works. The outlet works originally consisted of one 10-foot diameter conduit controlled by two 5-foot 8-inch by 10-foot hydraulically operated slide gates. It is located under the embankment about 1,600 feet to the right of the old river bed. The conduit, not including the transition from the gate bay passages to the conduit, is 994 feet long with intake invert at elevation 775.0 feet and outlet invert at elevation 760.0 feet. The conduit is used for the passage of flood releases and for low flow discharges.

A steel liner was inserted into the conduit in 1988 to service as a penstock, which reduced its diameter to 9 feet 4 inches. Additional modifications included the mounting of a slide gate at the end of the conduit. The steel lined conduit was tapped into and additional piping was needed to divert water to the hydropower plant. The capacity of the flood control conduit is 4,670 cfs when the lake is at the top of conservation elevation of 909.0 feet. The capacity is 5,200 cfs when the lake elevation is at the spillway crest of 943.0 feet. The outlet works plan and sections are shown on Plate 2-4. The intake structure and access bridge are shown in Figures 2-8 and 2-9. The outlet conduit is shown in Figure 2-10, and the discharge tunnel is shown in Figure 2-11.

Figure 2-8. Intake Tower

Figure 2-9. Intake Tower and Access Bridge

Figure 2-10. Outlet Conduit

Figure 2-11. Outlet Discharge Tunnel

e. Stilling Basin. The stilling basin is 194 feet long, when including the 110 foot parabolic chute. The floor of the stilling basin is at elevation of 737.0 feet and is 37 feet wide. The basin has two rows of baffle blocks and an end sill to dissipate energy and reduce erosion in the channel downstream. The stilling basin and downstream discharge channel are shown in Figure 2-12.

Figure 2-12. Stilling Basin and Discharge Channel

Figure 2-13. Hydropower Plant

f. Hydropower Facilities. GBRA modified the outlet works at Canyon Dam to facilitate the retro fitting of a hydropower facilities. The Texas Commission on Environmental Quality (TCEQ) and the USACE permitted the installation of the hydropower. GBRA operates the generators through a license issued by the Federal Energy Regulatory Commission. GBRA began construction of the hydroelectric facility in August 1987, and it was first put into service in February 1989. The hydropower plant is equipped with two 3-megawatt (MW) generators, each capable of operating at flows between 90 and 300 cfs. The hydropower plant is also equipped with a howell-bunger valve that can release an additional 500 cfs. GBRA also operates six other small hydroelectric plants on the Guadalupe River downstream of New Braunfels. Figure 2-13 shows the downstream hydropower plant. For the plan view of the hydropower plant refer to Plate 2-5 and Plate 2-6.

g. Water Supply Facilities. GBRA is the local agency with rights to the water in the conservation pool of the Canyon Lake. Canyon Lake is used by the GBRA to provide water supply for municipal, irrigation, and industrial uses. The outlet gates and the hydropower plant are operated for water supply and stream flow regulation purposes. The GBRA is responsible for the low flow releases for the purpose of satisfying riparian and appropriative rights, pollution abatement, and fish and wildlife requirements from the conservation storage space between elevations 800.0 and 909.0. Water releases are coordinated with GBRA District and USACE.

2-04. Related Control Facilities. The Canyon Dam and Lake Project is part of the USACE plan for flood control on the Guadalupe River Basin. At the present there is no other federal reservoir in the basin. The Gonzales Reservoir is a recommended unit of the flood control system, which is located on the San Marcos River of the Guadalupe River Basin. Canyon Dam controls 1,432 square miles of drainage area.

2-05. Real Estate Acquisition. A total of 10,987 acres for fee simple and 3,620 acres for flood flowage easement were acquired for the construction of the Canyon Dam and Lake. The real estate fee take line is based on a lake guide contour elevation of 918.0 feet, which was estimated to be the five-year frequency pool elevation. The upper guide contour or easement line was established as 5 feet above the spillway at 948.0 feet.

2-06. Public Facilities. Seven recreation areas around the lake are operated by USACE for public use and an additional 3 areas are operated by the Joint Base San Antonio with two of the parks serving the military and Department of Defense employees only. The areas are listed in Table 2-1 and the parks operated by USACE are shown on Plate 2-7. Facilities provided at these parks consist of roads, parking areas, boat ramps, camping and picnicking facilities, and golf course, marina and sports fields.

TABLE 2-1

Recreation Areas at Canyon Dam and Lake

1. Canyon Park
2. Comal Park
3. Cranes Mill Park
4. Guadalupe Park
5. Hancock Cove Park*
6. Jacobs Creek Park*
7. North Park
8. Overlook Park
9. Potters Creek Park
10. Sunny Side Park*

Note: * Indicates parks operated by Joint Base San Antonio.

CHAPTER III – HISTORY OF PROJECT

3-01. Authorization. Congressional authorization for the initiation and construction of Canyon Dam and Lake on the Guadalupe River was authorized by the River and Harbor Act approved 2 March 1945 (Public Law 14, 79th Congress, 1st Session). The River and Harbor Act of 1945 was approved in accordance with the plan outlined in the House Document No. 247 (76th Congress, 1st session). Authority for initiation of the detailed preconstruction planning is contained in the public works Appropriation Act of 1956, approved 15 July 1955 (Public Law 163, 84th Congress, 1st session), and in advice of allotment C-29 dated 3 August 1955. The project was modified by the Flood Control Act, approved 3 September 1954 (Public Law 780, 83rd Congress, 2d session) to increase the total storage capacity to provide for a local contribution during construction, and to permit the construction of hydroelectric power facilities at non-Federal expense.

3-02. Planning and Design. Canyon Lake was authorized in 1945 as a dual purpose lake for flood control and water conservation. In general, the design of the completed lake was very similar to that set out in the "Definite Project Report No. 1" dated October 1951.

A Public hearing was held at Seguin, Texas on 7 July 1938 for the purpose of ascertaining the desires and views of local interests in the Guadalupe Basin concerning improvements for flood control, navigation, and related purposes. The local interests requested that the Federal Government adopt a comprehensive plan of improvement for the Guadalupe River watershed in the interest of flood control, navigation, hydroelectric power development, irrigation, water conservation, and allied purposes. Another public hearing was held at Fischer, Texas on 23 August 1960 with a total attendance of about 85 people, which included representatives of various federal, state, and local governmental agencies and interested individuals. The purpose of the hearing was to inform the public of the location and extent of the areas selected for development for public use, the proposed plan of recreation development, and to secure information relative to the extent that state and local government agencies would desire to participate in the development and operation of recreational facilities and activities in the interest of the general public.

During the hearing, in connection with a comprehensive review of the reports contained in House Document number 238 is a survey of the Guadalupe River made under the provisions of House Document No. 308, 69th Congress, 1st session, to determine the most effective plan of improvement for navigation combined with the development of potential water power, flood control and irrigation. A plan for the ultimate development of the water resources of the Guadalupe River was presented consisting of a step-by-step development in the following order: first, construction of seven run-of-river power projects between Gonzales and Victoria; second, construction of Canyon Dam; third, construction of Wimberley Dam; fourth, construction of levees, and fifth, construction of a navigation project. The Chief of Engineers' recommendations

were unfavorable to any federal participation at that time and no congressional action thereon was taken.

House document No. 147, 79th Congress, 1st session, is an interim report which considers the advisability of providing a reservoir on the Guadalupe River near New Braunfels, Texas and a navigation channel from the Gulf Intracoastal Waterway to Victoria, Texas. The Chief of Engineers recommended canalization of the Guadalupe River from the Gulf Intracoastal Waterway by way of Seadrift to a point 3 miles above Victoria and the construction of Canyon Dam 7 miles upstream from New Braunfels for flood control and stream flow regulation in the interests of navigation and power development with a power plant to be included at the site, provided further field investigations indicated development of power to be practicable. Construction of these improvements was authorized by the River and Harbor Act approved March 2, 1945 (Public Law 14, 79th Congress, 1st session) subject to the provision: "That whenever any power project, not under Federal license, is benefitted by the Canyon Reservoir project, the Federal Power Commission after notice to the owner or owners of such unlicensed project and after opportunity for hearing, shall determine and fix a reasonable and equitable annual charge to be paid to the United States on account of such benefits by said owner or owners or other recipients of such benefits."

As authorized the Canyon Dam located 7 miles upstream from New Braunfels, Texas (Guadalupe River mile 187.4) would consist of a concrete gravity type dam with a controlled spillway. The spillway would be controlled by eight 40-foot by 30-foot tainter gates. This would form a reservoir with gross storage capacity of 563,000 acre-feet. The proposed plan of operation called for the reservation of 180,000 acre-feet of top storage for flood control and the use of the reminder for stream flow regulation and possible power development at the site.

Investigations for the Definite Project Report were initiated in July 1945 at the project document site (river mile 287.4). The locations of the sites described herein are shown on plate 1, appendix VII, of the Definite Project Report, dated October 1951. The ten 6-inch and 2-inch diameter borings were drilled at this site and pressure tested. The pressure tests together with observation of the cores and surface exposures of the foundation rocks, indicated that the project document site was unsuitable from the standpoint of water-tightness and the site was abandoned in favor of the Canyon A and B sites located upstream at river miles 295.9 and 295.5, respectively.

Twenty-three 2-inch borings were drilled and pressure tested at the Canyon A and B sites. The cores and tests indicated that considerable leakage could be expected to take place through foundation rocks in the upper portion of the proposed power pool and that most of this leakage would be through porous, fractured, and faulted Fredericksburg strata which outcrops in the entire reservoir area of the project document site. The investigations at the Canyon A and B sites also revealed that a fault exists just above the A site, and that upstream from the fault the bottom of the porous Fredericksburg strata would be above the top of the power pool with the relatively impervious Glen Rose formation outcropping in the permanent pool area. Accordingly, the Canyon A and B sites were abandoned and the Canyon E site at river mile 296.2 was selected for subsurface exploration.

Twenty-seven 2-inch borings were made at Canyon E site and pressure tested. The investigations at Canyon E site showed that the foundation rocks were relatively impervious below the top of the power pool, but that construction cost would be high due to the extensive embankment required, the necessity for a dike about 1,800 feet in length, and the costly spillway structure. For this reason the Canyon F and F-1 sites at river miles 302.0 and 303.0, respectively, were selected as alternates to the Canyon E site. Preliminary cost studies and subsurface exploration indicated the F-1 site to be more desirable than the F and F sites. The F-1 site (hereinafter designated as the Canyon Dam site) was thus chosen as the definite project site. Subsurface investigations at the Canyon Dam site included the drilling of sixty-five 2-inch core holes and eighteen 6-inch core holes in the spillway, embankment, and tunnel areas, four 6-inch and three 2-inch core holes at a quarry site; and 445 earth-auger holes in the borrow areas. Soil samples from most of the holes drilled were tested in the U.S. Army District, Galveston, and the U.S. Army Division, Southwestern, laboratories. Laboratory tests were also made on samples of concrete aggregate and slope protection materials. In parallel with subsurface investigations, about 30,000 acres of land were mapped by plane-table methods to a contour interval of 10 feet.

Definite project studies were initiated following authorization of the project in 1945 and a Definite Project Report was submitted in October 1951. Subsequent to the submission of the Definite Project Report a further review was made of the Budget Circular A-47. As a result of this review the District Engineer found that: (a) the inclusion of power facilities at the Canyon project at Federal expense is not justified under current criteria and policy, and that modification of the project to provide for the deletion of power is desirable; and (b) there is an urgent need for flood control and water conservation in the Guadalupe River Basin and a project for these purposes at the Canyon site is clearly justified. These findings were presented to higher authority in Design Memorandum No. 1 dated March 1954 which served as a basis for project modification. The flood control Act of 1954 modified the existing Canyon project and provided for the construction of a dam and reservoir generally in accordance with the alternate plan of project development recommended in Design Memorandum No. 1, dated March 1954 and approved by OCE 24 June 1954. This alternate plan of project development is considered the project document plan.

The Definite Project Report and the revisions contained in Design Memorandum No. 1 establishes the general location for (1) an earth embankment, having a maximum height of approximately 224 feet and a crest length of approximately 4,620 feet, on the Guadalupe River at mile 303.0 about 12 miles northwest of New Braunfels, Texas, (2) an uncontrolled spillway located in an existing saddle about 2,500 feet from the right abutment of the dam, and (3) an outlet works in the left abutment of the dam.

In view of the modification brought about by the adoption of the alternate plan, the general hydrology as initially presented in the Definite Project Report on Canyon Reservoir, Guadalupe River, Texas dated October 1951, was revised by Design Memorandum No. 12, Hydrology (Revised), dated November 1957, and Supplement No. 1 thereto dated February 1959. The

approved plan includes a 1,260-foot broad crested spillway and a 10-foot diameter flood control outlet works.

Design Memorandum No. 5, outlet works and supplements No. 1 and 2 modified the project document plan by providing (a) a separate flood control outlet works located near the center of the dam, and reserving the left abutment for the construction of power tunnel by local interests; (b) circular-cell, dry-well intake tower, with hydraulically operated slide gates and concrete control house in lieu of the wet well intake tower and Broome gates. The spillway was modified by Design Memorandum No. 7, spillway, and supplement No. 1 thereby recommending an uncontrolled broad crested spillway cut in firm rock, in place of the combination ogee broad crested spillway proposed in the project document plan.

3-03. <u>Construction</u>. The construction of Canyon Dam began in April 1958 and was completed on 22 August 1964. Closure of the embankment section began on 21 July 1962 and flow diverted through the outlet works on 5 August 1962. Deliberate impoundment began on 16 June 1964. Construction of hydroelectric facility at Canyon Dam began in August 1987 and it was first put into service in February 1989. The construction cost of the dam was $18,835,641.44. Table 3-1 outlines the important dates in the construction of Canyon Dam. Figure 3-1 through Figure 3-6 show different phases of dam construction.

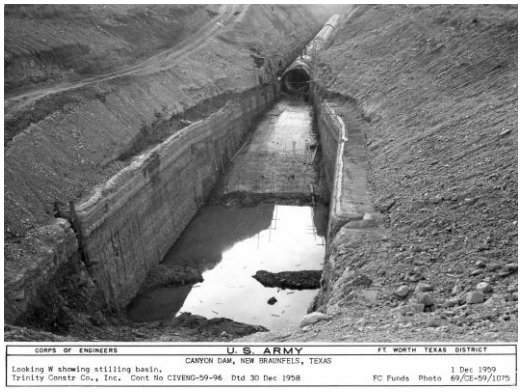

Figure 3-1. Outlet Works Stilling Basin, 30 December 1958

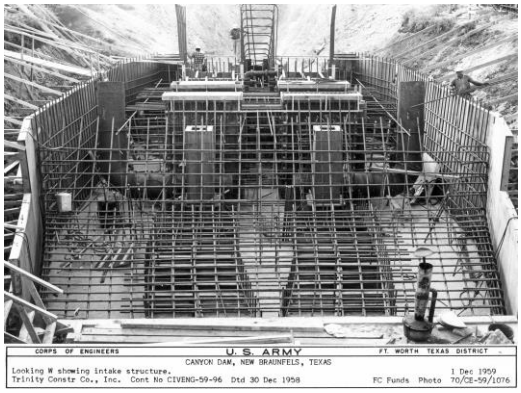

Figure 3-2. Intake Structure, 30 December 1958

Figure 3-3. Intake Structure and Approach Walls, 30 December 1958

Figure 3-4. Intake Structure Approach Walls and Rock Toe, 30 December 1958

Figure 3-5. Outlet Works Stilling Basin and Discharge Channel, 12 August 1960

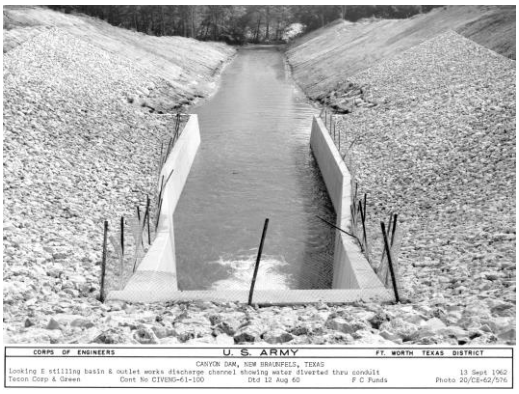

Figure 3-6. Water Diverted through Conduit, 12 August 1960

TABLE 3-1

Resume of Construction Activities

Activity	Date
First construction contract awarded	2 April 1958
Construction began	8 April 1958
Closure of Embankment began	21 July 1962
Flow diverted through the outlet works	05 August 1962
Deliberate impoundment began	16 June 1964
Construction completed	22 August 1964
Conservation pool filled	12 April 1968
Construction of hydropower facility began	August 1987
Hydropower facility service began	February 1989

3-04. Related Projects. The Canyon Dam and Lake Project is a multi-purpose project for flood control, water supply, hydropower, fish and wildlife, and recreation. There is no other federal reservoir in the Guadalupe River basin. GBRA owns the right to the conservation storage portion of Canyon Lake. Under its permit with TCEQ and USACE, GBRA has the right to store water in the Conservation Pool portion of the lake for water supply purposes and to deliver that water to customers. GBRA began construction of a hydroelectric facility at Canyon Dam in August 1987 and it was first put into service in February 1989. The GBRA also owns and operates six projects in the Guadalupe River basin: Lake Dunlap, Lake McQueeney, Lake Placid, Lake Nolte (Meadow Lake), Lake Gonzales, and Lake Wood.[1] GBRA has the right to establish regulations for navigation of the waterways subject to its jurisdiction, and is empowered under the laws of the State of Texas to establish restrictions on the use of watercraft navigating the waterways subject to its jurisdiction. The dam and lake projects of Guadalupe River basin are listed in Table 3-2.

[1] https://www.gbra.org/public/lakemanagement.aspx

TABLE 3-2

Guadalupe River Basin Projects

Project	Stream	Year of Completion/ Status
Lake Dunlap (TP-1), GBRA Project	Guadalupe River	1928
Lake McQueeney (TP-3), GBRA Project	Guadalupe River	1928
Lake Placid (TP-4), GBRA Project	Guadalupe River	1928
Lake Nolte (Meadow Lake) (TP-5), GBRA Project	Guadalupe River	1931
Lake Gonzales (H-4), GBRA Project	Guadalupe River	1931
Lake Wood Park (H-5) Hydroelectric Power Plant	Guadalupe River	1965
Canyon Dam and Lake	Guadalupe River	1964
Canyon Dam Hydroelectric Power Plant, GBRA Project	Guadalupe River	1989

3-05. Modification to Regulations. There have been no known regulation modifications.

3-06. Principal Regulation Problems. There have been no known regulation problems.

CHAPTER IV – WATERSHED CHARACTERISTICS

4-01. General Characteristics. The Guadalupe River originates in Kerr County, Texas approximately 10 miles west of Kerrville, and flows in an easterly direction for a distance of about 184 miles to the Balcones Escarpment near the city of New Braunfels, and thence turns southeast and flows for about 280 miles to an outlet into San Antonio Bay, an estuary of the Gulf of Mexico. The watershed lies in the south central portion of Texas, between north latitudes 28°25′ and 30°05′ and west longitudes 96°6′ and 99°0′. The watershed is relatively long and narrow, having an overall length of approximately 237 miles and a maximum width of about 50 miles, and comprises parts of Kendall, Comal, Hays, Caldwell, Guadalupe, Gonzales, DeWitt, Victoria, Calhoun and Refugio Counties. The watershed of the Guadalupe River has a total drainage area of 6,032 square miles of which 1,425 square miles is controlled by Canyon Lake.

Canyon Dam is located on the Guadalupe River at river mile 303.0. The principal tributaries contributing to the Guadalupe River are Comal and San Marcos Rivers, and Peach, Sandies, and Coleto Creeks, all of which enter the Guadalupe River below the Canyon Dam site. The general elevation of the watershed decreases from 2,400 feet above sea level in the extreme headwater area to about 750 feet above mean sea level at the Canyon Dam site streambed. The Guadalupe River and its drainage area are shown on Plate 4-1.

The basin is crossed by a network of highways. The Guadalupe River Valley bottomlands supports a restricted hardwood forest of various species. On disturbed uplands sites, numerous species of forbs, vines, and shrubs are intermixed. The majority of the Canyon Lake watershed lies within the Edwards Plateau section of the Great Plains physiographic province.[2] The region, locally known as the "Hill Country," is a geographically young plateau with a mature margin of moderate to strong relief. The Guadalupe River basin is supported by numerous industries, including trade, transportation and utilities, education and healthcare, and arts, leisure and hospitality. The population of the basin was approximately 255,353 in 2016.

4-02. Topography. Canyon Lake and its tributaries are located in the Edwards Plateau section of the Great Plains physiographic province which is a subdivision of the Interior Plains Major Division. The general topographical characteristics of the Edwards Plateau are those of a geologically young plateau, with a mature margin of moderate to strong relief. The area in the immediate vicinity of the dam and reservoir is very rugged, characterized by numerous elongated hills which are formed by erosional outcrops of the massive limestones which underlie the area. The hills average about 250 feet in height, have very steep and generally barren slopes and have relatively flat crests except for occasional shallow, intermediate, erosional divides. The drainage of the area is to the southeast, generally consequent upon the dip-plain of the underlying Cretaceous formations.

[2] archive.epa.gov/wed/ecoregions/web/html/tx_eco.html

The Edwards Plateau above New Braunfels is a region of rugged hills and narrow valleys and is strikingly accentuated at its eastern edge by steep hills and limestone bluffs that form the Balcones Escarpment, the boundary between the plateau area and the coastal plains. In the plateau area the Guadalupe River is deeply entrenched, flowing for the greater part of its course in narrow canyons 200 to 300 feet deep. Below New Braunfels in the coastal plains the river flows through an area of rolling hills and broad plains, changing to flat prairies along the Gulf Coast. The river follows a winding course throughout its length which is about twice the length of the valley axis. Plate 4-2 presents the natural profile of the Guadalupe River.

4-03. Geology and Soils. Canyon Lake is founded within the outcrops of the Glen Rose and Travis Peak rock formations of Lower Cretaceous age. Except for two outcrops of the Hensell sand member of the Travis Peak formation found in the upper reaches of the reservoir above the flood control pool, the entire reservoir is underlain by the Glen Rose rock formation. The strata of these formations dip southeast at a rate of about 15 feet per mile and the strike is about northeast-southwest. Three major faults of the Balcones structural zone were found within the reservoir limits. The strikes of all three major faults are northeast-southwest and the down throw sides of the faults are on the southeast.

The Glen Rose formation of Lower Cretaceous age is the only rock strata that was penetrated by borings at the dam. The thickness of this formation at the dam is estimated to be 650 feet. The material within the Glen Rose formation is principally limestone with numerous transitional phases of marl with occasional bands of shale. Core drillings at the dam site indicate the existence of one major fault in the spillway area and five minor faults located in the river valley. The vertical displacement of the major fault is estimated to be about 195 feet. The estimated displacement of each of two minor faults is 7 to 12 feet and that of each of the three remaining faults is less than 6 feet. The effects of weathering were found to be most significant on the tops of the abutments, where depths of 25 and 27 feet of weathered material on the right and left abutments, respectively, were indicated. The thickness of the zone of weathering decreases along the abutment slopes and is relatively shallow in the valley area. The soil mantle in the flood plain at the dam site consists of a mixture of alluvial silts, clays, gravels, and limestone boulders of various combinations or deposit. The over burden varies from 10 to 54 feet in thickness below which the primary Glen Rose formation has weathered to an average depth of about four feet. The maximum section of overburden occurs in the vicinity of the right abutment. The range of depths of the various materials of which the overburden is composed is as follows: silt, 3 to 19 feet; clay 2 to 38 feet; gravel, 2 to 17 feet, and limestone boulders, 2 to 13 feet.

4-04. Sediment. A system of 42 sedimentation ranges and 9 degradation ranges were established and surveyed with monuments placed within the reservoir area and below the dam during the design of the dam. Sedimentation in the lake and degradation downstream from the dam are monitored using the ranges shown on Plate 4-3. A schedule prepared in the Office of the Division Engineer, SWD indicates that resurveys were planned for about 5 to 10 year intervals. However, currently sediment surveys are done periodically depending on need and available funding.

In 1991, the Texas Legislature authorized the Texas Water Development Board (TWDB) to develop a non-profit, self-supporting, reservoir volumetric survey program, which is named the Hydrographic Survey Program. The program includes a standard volumetric survey and a sedimentation survey. Since 1992, TWDB's Hydrographic Survey Program has completed 161 hydrographic surveys on 106 unique reservoirs. This includes 85 of the 114 water supply reservoirs monitored for inclusion in TWDB's monthly Water Conditions Report. The TWDB web site is: (http://www.twdb.texas.gov/surfacewater/surveys/index.asp).

The TWDB performed a standard volumetric survey for Canyon Lake in 2000.[3] Results from this latest survey indicate Canyon Lake encompasses 8,309 surface acres and contains a total volume of 378,852 acre-feet at conservation pool elevation 909.0 feet. Original design information was based on a 1947 USACE survey, which estimated the surface area to be 8,240 acres and the total storage volume to be 386,200 acre-feet. In 1972, USACE performed a survey for Canyon Lake. Results indicate that Canyon Lake had a total surface area of 8,231 acres and a volume of 382,000 acre-feet of water at the top of conservation pool elevation. The 2000 TWDB survey results indicate that Canyon Lake lost 7,348 acre-feet of water or 2 percent in conservation storage space compared to the 1947 USACE survey. Comparisons between the 1947 and 1972 USACE survey and the 2000 TWDB volumetric survey are presented in Table 4-1.

TABLE 4-1

Area and Capacity Comparisons of Canyon Lake

Feature	USACE Survey	USACE Survey	TWDB Survey
Year	1947	1972	2000
Surface Area at Conservation Pool Elevation 909.0 feet NGVD29 (acres)	8,240	8,231	8,309
Volume at Conservation Pool Elevation 909.0 feet NGVD29 (acre-feet)	386,200	382,000	378,852

NOTE: Data is obtained from "Volumetric and Sedimentation Survey of Canyon Lake, TWDB November 2001."

4-05. Climate. The Guadalupe watershed is in the south central part of the state of Texas. The climate varies over the watershed from subtropical with cool winters and hot humid summers.

[3] http://www.twdb.texas.gov/hydro_survey/Canyon/2001-11/Canyon2000_FinalReport.pdf

Tropical maritime air masses from the Gulf of Mexico play a dominant role in the climate from late spring through early fall, while polar air masses determine the winter climate. Normally, the winter periods are short and comparatively mild, but occasional cold periods of short duration result from the rapid movement of cold, high pressure air masses from the northwestern Polar Regions and the continental western highlands. Freezing temperatures occur yearly over a large portion of the headwater area, and snowfall is experienced occasionally. Warm seasonal rainfall is largely the result of thunderstorm activity, with amounts varying considerably in both intensity and location.

a. Temperature. The mean annual temperature over the basin is about 68 degrees Fahrenheit. January, the coldest month, has an average minimum daily temperature of about 33 degrees. August, the warmest month, has an average maximum daily temperature of about 94 degrees. Temperatures in the watershed have ranged from a maximum of 112 degrees recorded at Boerne to a minimum of minus 7 degrees recorded at Kerrville.[4] The average length of the growing season between killing frosts varies from 221 days at Kerrville in the upper part of the watershed to 265 days at Luling near the central portion, and 296 days at Victoria in the lower portion of the watershed.[5] Table 4-2 gives temperature data for several National Weather Service (NWS) stations in or near the Guadalupe River basin.

[4] www.ncdc.noaa.gov/cdo-web/datasets
[5] texasalmanac.com/sites/default/files/images/almanac-feature/countyweatherA.pdf

TABLE 4-2

Temperatures in/near the Guadalupe River Basin

Station	Temperatures (°F)					
	Period of Record	Mean Annual	Average January Minimum	Average August Maximum	Minimum Recorded	Maximum Recorded
Boerne	1893-2017	65.7	35.9	93.0	-4	112
Canyon Dam	1961-2017	67.6	38.5	91.5	2	109
Kerrville*	1897-2017	64.9	32.2	91.4	-7	110
New Braunfels	1893-2017	68.9	38.6	94.2	2	110

*Period of available NOAA date (1897-2007) is retrieved from different stations named Kerrville.

b. Precipitation. The normal annual precipitation over the Guadalupe River watershed varies from approximately 31 inches at Kerrville in the northwestern part of the watershed, to 36 inches at Canyon Dam, in the eastern portion of the watershed.[6] Across the watershed, precipitation levels are higher in the late-spring, early-summer months, peaking in May-July and lowest in November-February. Because of the preponderance of tropical maritime air, heavy showers of short duration may occur at any time during the year. The monthly distribution of the average annual precipitation at ten NWS stations in the watershed area is shown in Table 4-3.

[6] www.ncdc.noaa.gov/cdo-web/datasets

TABLE 4-3

Average Monthly and Annual Rainfall in/near the Guadalupe River Basin

Month	Precipitation (Inches)				
	Bankersmith* 1948-2012	Boerne 1893-2017	Bulverde 1940-2017	Canyon Dam 1961-2017	Comfort 2 1985-2017
January	1.62	1.86	1.93	2.36	2.00
February	2.04	2.15	2.15	1.93	1.88
March	2.54	2.18	2.21	2.44	2.81
April	2.20	3.14	2.92	2.95	2.39
May	3.74	4.37	4.03	4.29	4.22
June	3.90	3.19	3.64	3.90	3.35
July	2.73	2.62	2.27	2.69	3.16
August	2.13	2.51	2.67	2.57	2.44
September	2.71	3.88	3.73	3.97	3.12
October	3.03	3.42	3.85	4.16	3.49
November	2.30	2.49	2.48	2.96	2.31
December	2.03	2.11	2.08	2.06	1.89
Total	30.97	33.94	33.95	36.28	33.07
Precipitation Minimum Yearly	13.57 (2008)	10.29 (1954)	14.59 (1999)	17.96 (1999)	29.51 (1989)
Precipitation Maximum Yearly	54.24 (2002)	64.17 (1992)	55.89 (1973)	64.07 (2007)	97.85 (2002)

NOTES: 1. The total annual precipitation is computed by summation of the monthly averages.
2. Data reflect "Climatological Data" from the NWS. Data as of 2017.
3. *No Data record from 1951-1983 for this station.

TABLE 4-3 (CONTINUED)

Average Monthly and Annual Rainfall in/near the Guadalupe River Basin

Month	Precipitation (Inches)				
	Fischers Store 1887-2017	Kerrville 3 NNE 1974-2017	New Braunfels 1893-2017	San Antonio Intl. Airport 1946-2017	Spring Branch 2 SE 1956-2017
January	2.28	1.51	1.99	1.73	2.07
February	2.16	1.71	1.99	1.81	2.09
March	2.09	2.27	2.10	1.80	2.15
April	2.83	2.30	2.82	2.52	2.55
May	3.94	4.38	4.01	4.04	4.23
June	3.24	3.58	3.33	3.46	3.84
July	2.60	2.36	2.20	2.20	2.17
August	2.68	2.22	2.25	2.48	2.50
September	3.47	3.62	3.33	3.50	3.53
October	3.68	3.38	3.32	3.34	4.11
November	2.44	2.46	2.29	2.19	2.78
December	2.34	1.78	2.26	1.67	2.06
Total	33.74	31.58	31.89	30.76	34.09
Precipitation Minimum Yearly	13.98 (1954)	13.10 (2011)	10.12 (1954)	13.70 (1954)	14.44 (2008)
Precipitation Maximum Yearly	55.12 (2004)	51.10 (2007)	60.21 (1919)	52.28 (1973)	54.87 (2015)

NOTES: 1. The total annual precipitation is computed by summation of the monthly averages.
2. Data reflect "Climatological Data" from the NWS. Data as of 2017.

c. Snowfall. Minor accumulations of snowfall (about 2.5 inches) occur periodically during the winter months; however, snowfall does not contribute significantly to area precipitation or runoff.

d. Evaporation. A NWS "Class A" evaporation pan has been established at Canyon Lake and records are available from August 1964 to present. The evaporation pan at Canyon Lake is 9 7/8-inch deep with 47.5-inch diameter. From measurements collected between August 1964 and July 2017, the estimated average annual evaporation from the lake is about 54 inches. The average monthly and annual evaporation from Canyon Lake are given in Table 4-4A. The highest recorded annual pan evaporation was 93.41 inches in 2011, while the lowest was 62.37 inches in 2007. The highest evaporation during a single month was 13.43 inches in August 2011. The 47-inch diameter by 9 7/8-inch deep pan heats up much faster than the lake, thus the pan evaporation is much higher than the actual evaporation, and a coefficient must be used to estimate actual lake evaporation.

The TWDB has also collected lake evaporation data from 1954 through 2016 from the National Oceanic and Atmospheric Administration (NOAA) and the National Climatic Data Center (NCDC).[7] The average monthly and annual evaporation from TWDB data are given in Table 4-4B. The evaporation rates for the Guadalupe River watershed are computed using the pan coefficients in the ThEvap program for quadrangle 809.

Figures 4-1 and 4-2 show the instruments and equipment of weather station at Canyon Lake.

Figure 4-1. Weather Station at Canyon Lake

Figure 4-2. Evaporation Pan and Thermometer

[7] www.twdb.texas.gov/surfacewater/conditions/evaporation/

TABLE 4-4A

Canyon Lake Average Monthly and Annual Evaporation (Aug 1964 – Jul 2017)

Month	Reservoir Evaporation (Inches)		
	Measured Pan Evaporation	Monthly Pan Coefficient	Calculated Reservoir Evaporation
January	3.04	0.73	2.22
February	3.58	0.70	2.50
March	5.26	0.69	3.63
April	6.54	0.67	4.38
May	7.55	0.60	4.53
June	9.28	0.67	6.22
July	10.42	0.69	7.19
August	10.35	0.70	7.24
September	7.53	0.73	5.50
October	5.89	0.77	4.53
November	3.85	0.80	3.08
December	2.91	0.77	2.24
Annual	76.19	0.71	54.09

NOTES: Reservoir evaporation is calculated using the measured pan evaporation multiplied by the monthly pan coefficient given in Texas Department Water Resources Report 64 for a NWS Class A Pan.

TABLE 4-4B

TWDB Average Monthly and Annual Evaporation Canyon Lake, 1954-2016

Month	Quadrangular Lake Evaporation rate (inches)	Monthly Pan Coefficients for quadrangle 809 of ThEvap Program
January	2.15	0.72
February	2.50	0.70
March	3.74	0.70
April	4.48	0.69
May	4.98	0.64
June	6.40	0.69
July	7.32	0.70
August	7.00	0.70
September	5.38	0.72
October	4.38	0.75
November	2.92	0.76
December	2.18	0.75
Annual	53.43	0.70

e. Wind. The prevailing winds over the watershed during December, January, and February are usually northerly, being influenced by continental high pressure areas. During the remainder of the year, southerly or southeasterly winds from the Gulf of Mexico are dominant. Severe winds have been experienced near Canyon Lake. Gusts as fast as 90 miles per hour have been recorded near NWS Station in Boerne, approximately 35 miles southwest of the dam site on 2 April 2017.[8] (Data provided by NOAA NCDC for the period 1950–2017).

From the "Canyon Lake, Guadalupe River, Guadalupe River Basin, Dam Safety Assurance Study, Hydrology and Hydraulics, March 1983" report, the design wind speed for the Probable Maximum Flood (PMF) is 57 mph, the fetch for wind setup is 5.90 miles and the needed freeboard of 5.6 feet. This freeboard was computed for a Probable Maximum Flood (PMF) elevation of 973.4 feet. Since top of dam is at elevation 974.0 feet, the freeboard is inadequate. The average annual wind movement at Boerne, Texas, 35 miles southwest of the Canyon Dam, is 78,840 miles, or an average wind speed of 9 miles per hour for entire year.[9] Tornadoes are a somewhat rare occurrence in the watershed.

[8] https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=685547
[9] www.ncdc.noaa.gov/sites/default/files/attachments/wind1996.pdf

4-06. <u>Storms and Floods</u>. The Guadalupe River watershed is subject to three general types of flood-producing rainfall: thunderstorms, frontal rainfall, and tropical cyclones. The topography, soils and typical rainfall patterns of the watershed lead to rapid runoff and sharp crested flood hydrographs. Floods occur frequently and at almost any time of year. Generally, the highest 24-hour and monthly precipitation periods have occurred as a result of tropical lows and/or tropical storms stalling over the watershed. During the June 21-22, 1997 flood in south-central Texas, a record 19.47 inches of rain fell during a 48 hour period at the Medina River at Bandera USGS gage. This rain event caused tremendous flooding on both the Medina and Guadalupe watersheds. The inflows into Canyon Lake caused the lake level to rise from elevation 910.76 to elevation 937.63 feet. The center of the 19 inch storm was approximately 48 miles to the west of Canyon Dam with rainfall and flood flows split between both the Medina and Guadalupe River watersheds. Had the 19.0 inch center occurred over the immediate Guadalupe River watershed then it may have caused Canyon Lake to go over the spillway during this event. The maximum 24-hour rainfall reported in or adjacent to the basin was 10.90 inches, which occurred at Bankersmith, a small town in Kendall County, on 1 July 2002. The maximum monthly rainfall reported was 32.56 inches for July 2002 at Comfort.[10] The town of Waring, which is located between Canyon Lake and Comfort, Texas received approximately 50 inches of rainfall during a two week period from the end of June into mid-July 2002. The National Weather Service reported a 45.45 inch rainfall from 28 June thru 06 July at the Waring site from a reputable NWS observer. Generally the Guadalupe River's large floods are long-duration type having two or more peaks spaced as close as ten days apart. However, it is possible that large peak and volume floods could occur in about a two week duration. The major storms experienced over the watershed for which rainfall data are available, together with the average rainfall depths produced on the watershed above the dam, are listed in Table 4-5.

Table 4-6 lists the pertinent data for major lakes and dams and gages in the Guadalupe River basin. Table 4-7 gives stages and discharges for top 17 major floods recorded at gages on the Guadalupe River.

[10] www.ncdc.noaa.gov/cdo-web/datasets

TABLE 4-5

Major Storms on the Guadalupe River Watershed, 1887–2017

Storm Date	Precipitation in Inches								
	Bankersmith Gage	Boerne Gage	Bulverde Gage	Canyon Dam Gage	Comfort 2 Gage	Fischers Store Gage	Kerrville 3 NNE Gage	New Braunfels Gage	San Antonio Intl. Airport Gage
1957, Apr 14-29	—	8.67	11.24	—	—	—	—	7.72	9.24
1967, Sep 1-22	—	7.98	9.73	10.70	—	12.77	—	9.69	10.90
1971, Aug 1-14	—	15.21	11.42	5.39	—	5.59	—	8.34	8.42
1976, Oct 15-30	—	6.59	11.60	10.71	—	4.78	2.85	8.39	6.54
1978, Aug 1-3	—	5.48	4.06	6.04	—	1.00	16.58	2.39	3.87
1981, Jun 2-17	—	11.14	7.91	9.70	—	8.34	10.30	13.25	8.20
1987, Jun 1-14	9.67	10.91	5.82	—	2.62	9.35	9.24	9.83	7.69
1991, Dec 18-26	13.52	15.65	11.63	11.95	14.01	10.24	11.60	15.16	12.82
1997, Jun 7-23	9.88	16.05	15.78	11.44	12.15	10.80	9.77	5.62	6.19
1998, Oct 17-21	4.23	5.89	21.80	20.35	3.31	11.89	2.83	23.25	15.66
2002, Jun 28-Jul 10	32.13	28.16	16.43	21.14	33.78	19.34	22.48	—	17.09
2007, Jul 2-22	5.12	8.46	3.10	11.32	7.07	6.50	3.39	9.44	7.72
2010, Sep 3-9	7.98	10.15	9.04	8.93	5.98	9.06	4.10	6.68	8.20
2015, May 9-31	—	15.05	10.62	11.98	14.38	12.48	10.57	—	8.37
2015, Oct 22-31	—	8.76	4.75	18.74	4.39	15.62	4.01	—	7.75
2016, May 15- Jun 4	—	10.55	10.30	8.91	9.55	9.52	14.01	—	10.33

NOTE: The rainfall data were tabulated from published precipitation records from the NWS. Bucket survey for Medina and Guadalupe above Canyon indicated areas of 20 to 48 inches of rain in August 1-3, 1978 event.

TABLE 4-6
Pertinent Data for Major Lakes and Dams and Gages in the Guadalupe River Basin

Station	Stream	Period of Record	Miles Above Mouth	Datum (ft)	Drainage Area (Sq. Mi.)	Maximum Floods of Record		
						Date	Gage Height (ft)	Peak Discharge (cfs)
at Hunt	Guadalupe River	1932-2017	430.9	1,722.70	288	2 Jul 1932	36.60	206,000
						17 Jul 1987	28.38	108,000
						2 Aug 1978	23.50	62,900
at Kerrville	Guadalupe River	1886-2017	—	1,601.00	510	2 Jul 1932	39.00	196,000
						17 Jul 1987	37.72	141,000
						9 Jun 2004	20.53	72,700
at Comfort	Guadalupe River	1869-2017	396.6	1,371.43	839	2 Aug 1978	40.90	240,000
						Jul 1869	40.30	-
						16 Jul 1900	38.40	182,000
						14 Jun 1935	36.90	148,000
near Spring Branch	Guadalupe River	1869-2017	334.4	948.10	1,315	1869	53.00	-
						3 Aug 1978	45.25	160,000
						1900	49.00	-
						3 Jul 1932	42.10	121,000
						22 Jun 1997	45.12	116,000
at Sattler	Guadalupe River	1960-2017	301.2	742.24	1,436	6 Jul 2001	36.36	70,000
						29 Oct 1960	12.20	20,800
						17 Aug 1960	10.80	15,500

TABLE 4-6 (CONTINUED)

Pertinent Data for Major Lakes and Dams and Gages in the Guadalupe River Basin

Lake	Stream	Period of Record	Miles Above Mouth	Datum (ft)	Drainage Area (Sq. Mi.)	Maximum Lake Elevation		
						Date	Elev. (ft)	Volume (ac-ft)
Canyon Lake	Guadalupe River	1962-2017	303.0	0.0	1,425	6 Jul 2002	950.28	831,800
Coleto Creek Reservoir	Coleto Creek	1986-2017	12.8	80.00	494	31 Aug 2001	99.94	36,680

NOTE: The information is derived from the United States Geological Survey (USGS) Annual Water-Data Reports.

TABLE 4-7

Top 17 Major Floods on the Guadalupe River Watershed, 1900-2017

Date	Guadalupe River at Comfort		Guadalupe River near Spring Branch		Guadalupe River at Sattler		Guadalupe River at Kerrville		Guadalupe River at Hunt	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1900, Jul	38.40	182,000	49.00	—	—	—	—	—	—	—
1915, Sep	34.90	114,000	—	—	—	—	—	—	—	—
1932, Jul	—	—	42.10	121,000	—	—	39.00	196,000	36.60	206,000
1935, Jun	36.90	148,000	41.30	114,000	—	—	—	—	—	—
1959, Oct	33.15	111,000	29.61	42,500	—	—	—	—	—	—
1978, Aug	40.90	240,000	45.25	160,000	8.31	5,850	—	—	23.50	62,900
1985, Oct	27.50	73,700	32.06	55,500	8.10	5,110	—	—	22.80	56,800
1987, Jun-Jul	31.50	130,000	35.58	76,500	8.30	5,560	37.72	141,000	28.38	108,000
1991, Dec	23.37	54,700	36.00	79,300	8.27	5,710	7.49	8,710	13.50	8,340
1997, Jun	25.91	73,700	45.12	116,000	8.26	5,670	—	—	—	—
2000, Oct-Nov	24.08	59,400	27.46	35,100	7.75	4,030	17.94	55,700	22.40	53,900
2002, Jul	31.38	128,000	41.60	94,400	36.36	70,000	14.56	35,900	—	—
2004, Apr-Jun	23.54	55,600	23.51	31,600	9.10	9,300	20.53	72,700	18.28	27,800
2007, Aug-Sep	24.54	62,800	33.68	56,400	8.47	6,700	—	—	—	—
2010, Apr	19.17	30,500	16.09	14,700	7.70	4,050	13.51	30,700	18.51	29,000
2015, May-Jun	26.67	72,600	34.50	59,800	8.56	6,110	4.61	2,810	10.58	2,190
2016, May	27.90	83,800	26.07	33,200	—	—	8.38	11,100	10.28	1,790

NOTES: 1. Data retrieved from USGS Peak Streamflow for Texas database.

2. For more details on all major floods refer to Table 4-8 (pg. T4.8-1).

Historical descriptions of the major floods that have been experienced in the Guadalupe watershed are as follows:

a. Storm of July 1900. The flood produced by the July 1900 storm reached stages of 38.40 feet at Guadalupe River at Comfort gage and 49.00 feet at Guadalupe River at Spring Branch gage. During this storm, the recorded rainfall at Boerne was 7.31 inches between 13 and 30 July 1900. The peak discharges at Guadalupe River at Comfort gage was estimated as 182,000 cfs.

b. Storm of September 1915. The September 1915 storm was caused by the "1915 Galveston Hurricane", 15 years after the "Great Galveston Hurricane" of 1900. It made landfall on Texas coast as a category 4 hurricane with sustained wind speed of 135 mph. The 1915 Galveston Hurricane took a path similar to the 1900 Galveston Hurricane, but it affected a large area as it brought strong winds and heavy rains to the Leeward Islands, Puerto Rico, Hispaniola and Cuba. The hurricane was formed on 5 August and dissipated on 23 August, and caused great destruction in its path. Flood produced by this storm reached stages of 34.90 feet at Guadalupe River at Comfort gage. The peak discharges at Guadalupe River at Comfort gage was 114,000 cfs.

c. Storm of July 1932. The July 1932 flash floods hit along the Uvalde, the Frio and the Nueces, and also to the north and east along the headwaters of the Guadalupe River, upstream from Kerrville. In the first two months of 1932, rainfall in Texas was well above normal. From March through June, Hill Country rainfall was slightly above average. Prior to the July storms showers occurred in the San Angelo area. From June 26 to June 28 the San Angelo gage recorded more than 1.5 inches, and Garden City recorded more than 5 inches of rainfall. From June 30 to July 2, the light showers developed into torrential downpours. Several stations received 15-20 inches of rainfall within two days. The recorded stages at Guadalupe River near Spring Branch, Guadalupe River at Kerrville and Guadalupe River at Hunt were 42.10, 39.00 and 36.60 feet, respectively. The peak discharges at Guadalupe River near Spring Branch, Guadalupe River at Kerrville and Guadalupe River at Hunt were 121,000, 196,000 and 206,000 cfs, respectively.

d. Storm of June 1935. Central and south Central Texas experienced heavy rainfall during late spring and early summer of 1935. In May 1935, San Antonio was hit harder with 14.07 inches with 8.41 inches the next month. The stores around Alamo Plaza were flooded in late May and D'Hanis, reported a 20-24 inches of rain in just 2 hours and 45 minutes. Early to mid-June rains approached 20 inches in many other smaller communities from Uvalde to Austin. The flood produced by this June 1935 storm reached stages of 36.90 feet at Guadalupe River at Comfort gage and 41.30 feet at Guadalupe River at Spring Branch gage. The peak discharges at Guadalupe River at Comfort gage and Guadalupe River at Spring Branch gage were 148,000 and 114,000 cfs, respectively.

e. Storm of October 1959. The flood produced by the October 1959 storm reached stages of 33.15 feet at Guadalupe River at Comfort gage and 29.61 feet at Guadalupe River at

Spring Branch gage. The peak discharges at Guadalupe River at Comfort gage and Guadalupe River at Spring Branch gage were 111,000 and 42,500 cfs, respectively.

f. Storm of August 1978. The drainage area of the Guadalupe River above Canyon Lake received the first of the heavy rainfall during the night of 1 August and the morning of 2 August. The storm cell, centered just west of Kerrville in Kerr County, produced rainfall amounts that resulted in severe flooding on the Guadalupe River and all of its local tributaries. Canyon Lake contained all of the runoff from this flood, so no damage occurred below Canyon Lake. The contents of Canyon Lake increased from 362,200 acre-feet at 2400 hours on 1 August to 588,400 acre-feet at 2400 hours on 4 August. This was the maximum storage since closure of the dam on 21 July 1962. The flood produced by this storm reached stages of 40.90 feet at Guadalupe River at Comfort gage, 45.25 feet at Guadalupe River at Spring Branch gage, 8.31 feet at Guadalupe River at Sattler gage and 23.50 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage and Guadalupe River at Hunt gage were 240,000, 160,000, 5,850 and 62,900 cfs, respectively.

g. Storm of October 1985. The flood produced by the October 1985 storm reached stages of 27.50 feet at Guadalupe River at Comfort gage, 32.06 feet at Guadalupe River at Spring Branch gage, 8.10 feet at Guadalupe River at Sattler gage and 22.80 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage and Guadalupe River at Hunt gage were 73,700, 55,500, 5,110 and 56,800 cfs, respectively.

h. Storm of Jun-July 1987. The flash flood of July 1987 gained national attention due to the tragic accident of 17 July 1987. According to a NWS report, a weak low pressure system crossed the border in Mexico, dropping nearly 6 inches of rain in Brackettville, about 30 miles east of Del Rio. As the weather complex moved northeast, it seemed to have disappeared off the radar. However, by around midnight on July 17, the low pressure began to interact with a rare July frontal boundary between Kerrville and Junction. The system reignited and dropped almost a foot of rain near the headwaters of the Guadalupe River, 10 miles west of Hunt, in less than five hours. By the morning of the 17th, almost 12 inches of rain had fallen across the Texas Hill country to the north, triggering immense flash flooding on the Guadalupe River. The flash flood swept a bus full of children away at a low water crossing near Comfort, Texas, and 10 children were killed. The flood produced by this storm reached stages of 31.50 feet at Guadalupe River at Comfort gage, 35.58 feet at Guadalupe River at Spring Branch gage, 8.30 feet at Guadalupe River at Sattler gage, 37.72 feet at Guadalupe River at Kerrville gage, and 28.38 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, Guadalupe River at Kerrville gage, and Guadalupe River at Hunt gage were 130,000, 76,500, 5,560, 141,000 and 108,000 cfs, respectively.

i. Storm of December 1991. On 18 December, a cold surface ridge had settled over Texas. At the same time, an upper level low over Arizona forced the jet streams through Mexico and into Texas drawing moisture out of the Pacific. The moist air in the middle and upper layers

of the system was the catalyst for the rains that occurred over the next several days. This resulted in some 100,000 square miles in the eastern-half of Texas receiving in excess of 4 inches of rainfall. The heaviest rainfall fell along the Edwards Plateau where 12 to 16 inch rainfall totals were common. It was one of its largest floods in December when measured in terms of water volume. Most of the Guadalupe River Basin received rainfall amounts totaling between 10 and 16 inches during this 6-day period. The flood produced by this storm reached stages of 23.57 feet at Guadalupe River at Comfort gage, 36.00 feet at Guadalupe River at Spring Branch gage, 8.27 feet at Guadalupe River at Sattler gage, 7.49 feet at Guadalupe River at Kerrville gage, and 13.50 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, Guadalupe River at Kerrville gage, and Guadalupe River at Hunt gage were 54,700, 79,300, 5,710, 8,710 and 8,340 cfs, respectively.

j. Storm of June 1997. During the June 21-22, 1997 flood in south-central Texas, a record 19.47 inches of rain fell during a 48 hour period at the Medina River at Bandera USGS gage. This rain event caused tremendous flooding on both the Medina and Guadalupe watersheds. The inflows into Canyon Lake caused the lake level to rise from elevation 910.76 on 20 June to elevation 937.63 feet on 27 June. The center of the 19 inch storm was approximately 48 miles to the west of Canyon Dam with rainfall and flood flows split between both the Medina and Guadalupe River watersheds. Had the 19.0 inch center occurred over the immediate Guadalupe River watershed then it may have caused Canyon Lake to go over the spillway during this event. The flood produced by the June 1997 storm reached stages of 25.91 feet at Guadalupe River at Comfort gage, 45.12 feet at Guadalupe River at Spring Branch gage, and 8.26 feet at Guadalupe River at Sattler gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, and Guadalupe River at Sattler gage were 73,700, 116,000, and 5,670 cfs, respectively.

k. Storm of October-November 2000. The October-November 2000 storm reached stages of 24.08 feet at Guadalupe River at Comfort gage, 27.46 feet at Guadalupe River at Spring Branch gage, 7.75 feet at Guadalupe River at Sattler gage, 17.94 feet at Guadalupe River at Kerrville gage, and 22.40 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, Guadalupe River at Kerrville gage, and Guadalupe River at Hunt gage were 59,400, 35,100, 4,030, 55,700 and 53,900 cfs, respectively.

l. Storm of July 2002. The Flood of July 2002 was significant in Canyon Lake's history. During the period of June 28 to July 10, recorded rainfall at Bankersmith, Boerne, Bulverde, Canyon Dam and Comfort 2 NNE gage were 32.58, 28.16, 16.43, 21.14 and 33.50 inches, respectively. The town of Waring, which is located between Canyon Lake and Comfort, Texas received approximately 50 inches of rainfall during a two week period from the end of June into mid-July 2002. The National Weather Service reported a 45.45 inch rainfall from 28 June thru 06 July at the Waring site from a reputable NWS observer. This heavy rainfall caused Canyon Lake to rise to a record elevation of 750.23 feet (7.23 feet above the spillway crest) with a computed peak flow of approximately 67,000 cfs over the spillway and down the Guadalupe

River Valley. The flood, which continued for six weeks, stripped the valley of mesquite, oak trees, and soil, destroyed a bridge, and dislodged one yard wide boulders from the ground. In a remarkable demonstration of the power of raging waters, the flood excavated a 7,200 foot-long, 23 feet deep canyon in the bedrock of the spillway. It was the first time in history that Canyon Lake overflowed the spillway and the highest recorded lake elevation was 950.23 feet. It is estimated that about two times the lake's volume in water went over the spillway in a very short time. As a result of the spillway overflow, approximately one million cubic yards of soil, rock and debris was eroded and redistributed in different reaches of the Guadalupe River downstream from the dam. The storm reached stages of 31.38 feet at Guadalupe River at Comfort gage, 41.60 feet at Guadalupe River at Spring Branch gage, 36.36 feet at Guadalupe River at Sattler gage, and 14.56 feet at Guadalupe River at Kerrville gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, and Guadalupe River at Kerrville gage were 128,000, 94,400, 70,000, and 35,900 cfs, respectively.

m. Storm of August-September 2007. The phenomenally heavy rain event on June 27 was part of an unusually wet weather pattern that began in May and lasted into August. During that time, a trough of low pressure in the middle and upper atmosphere over Texas was surrounded by ridges of high pressure to the east and west. Atmospheric disturbances tracking south from the Plains states interacted with a rich supply of moisture off the Gulf of Mexico. The May to August period was one of the wettest on record. 11 deaths were attributed to this flooding. The storm reached stages of 31.38 feet at Guadalupe River at Comfort gage, 41.60 feet at Guadalupe River at Spring Branch gage, 36.36 feet at Guadalupe River at Sattler gage, and 14.56 feet at Guadalupe River at Kerrville gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, and Guadalupe River at Kerrville gage were 128,000, 94,400, 70,000, and 35,900 cfs, respectively.

n. Storm of May 2015. Consistent rain in Central Texas during one of the wettest months on record led to widespread flooding in the Dallas-Fort Worth and Houston areas, killing a total 31 people in Texas and Oklahoma, and ending a four year-long drought. The statewide average monthly rainfall was a record 8.81 inches, and multiple local rainfall records were also set during the month. Stations in the Guadalupe River Basin received 9-16 inches in a 3-week period, with a center at Comfort 2 NNE, which received 14.38 inches. The flood resulting from this storm reached stages of 26.67 feet at Guadalupe River at Comfort gage, 34.50 feet at Guadalupe River at Spring Branch gage, 8.56 feet at Guadalupe River at Sattler gage, 4.61 feet at Guadalupe River at Kerrville gage, and 10.58 feet at Guadalupe River at Hunt gage. The peak discharges at Guadalupe River at Comfort gage, Guadalupe River at Spring Branch gage, Guadalupe River at Sattler gage, Guadalupe River at Kerrville gage, and Guadalupe River at Hunt gage were 72,600, 59,800, 6,110, 2,810 and 2,190 cfs, respectively.

The USGS historical information of all Major Floods is listed in Supplementary Table 4-8 (pg. T4.8-1). The data shown in the table covers the period 1869 to 2016.

Figures 4-3 through 4-16 are scenes of 2002 and 2015 floods at Canyon Lake.

Figure 4-3. 2002 Flood - Aerial View

Figure 4-4. 2002 Flood - Marina

Figure 4-5. 2002 Flood - Spillway

Figure 4-6. 2002 Flood - Access Road Downstream Discharge Channel

Figure 4-7. 2002 Flood - Park Area

Figure 4-8. 2002 Flood - Property

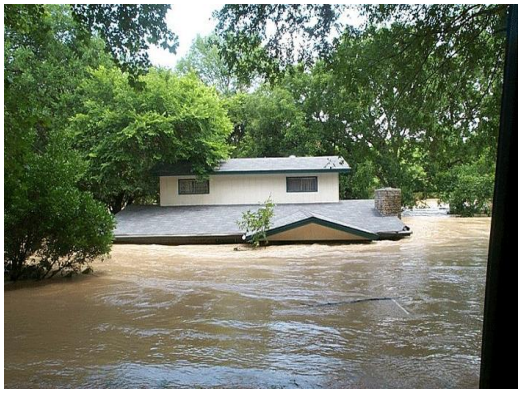

Figure 4-9. 2002 Flood - Property

Figure 4-10. 2002 Flood - Access Road

Figure 4-11. 2002 Flood - Access Road

Figure 4-12. 2002 Flood - Riverbank

Figure 4-13. 2015 Flood - Marina Access Road

Figure 4-14. 2015 Flood - High Water Level

Figure 4-15. 2015 Flood - Potter Creek Road

Figure 4-16. 2015 Flood - Guadalupe River

4-07. <u>Runoff Characteristics</u>. Floods may occur at almost any time of year in the Guadalupe River watershed. The steep gradients of the streams, the thin layer of topsoil with frequent outcroppings of rock, and the well-defined valleys in the watershed above Canyon Dam produce rapid runoff during storm periods. Extreme and rapid variations in the flow, ranging from a few second-feet to large floods of short duration, have been experienced in the vicinity of the dam. During the greater part of the year, the stream has a low normal flow. The highest average monthly flows usually occur in May, June, July, and September. Flood flows, however, may occur during any month. Runoff factors and infiltration indices were computed for the watersheds in the Upper Guadalupe River Basin following a method described n EM 1110-2-1405 (Engineering Manual for Civil Works Construction, Part CXIV, Chapter 5, dated March 1948). The infiltration indices for the storms studied varied from 0.17 to 0.49 inches per hour. The runoff varied from 7.6 percent to 59.9 percent of the rainfall.

The computed monthly and annual inflow volumes, based on change in lake storage, are shown in Table 4-9 (pg. T4.9-1). The monthly inflow volume exceedance frequency curves, based on data from 1915 to 2017 are shown on Plates 4-4 through 4-15. Table 4-10 shows the monthly inflow volume frequency for the 5-, 10-, 25-, and 50-year events.

TABLE 4-10

Canyon Lake Monthly Inflow Volume Frequency

	Inflow Volume in Acre-Feet Frequency of Occurrence in Years			
MONTH	5	10	25	50
January	38,165	56,600	80,970	99,405
February	22,568	36,094	76,674	144,306
March	46,967	69,516	99,323	121,872
April	49,319	71,819	101,563	124,063
May	70,137	103,420	147,416	180,698
June	42,839	88,381	206,480	341,545
July	25,194	51,383	145,913	356,671
August	15,542	30,799	77,534	158,635
September	28,372	59,610	140,182	230,657
October	34,861	72,719	171,396	286,208
November	23,866	47,226	109,006	184,307
December	21,145	37,294	85,741	166,486

NOTE: Based on computed inflows for period February 1915 to September 2017.

4-08. Water Quality. Texas Commission on Environmental Quality (TCEQ) publishes the assessment reports for the quality of surface waters for Guadalupe River basin in the biennial Integrated Report (formerly called the "Texas Water Quality Inventory and 303(d) List") that evaluates the quality of all surface waters in Texas. The Integrated Report is prepared according to Clean Water Act Sections 305(b) and 303(d). In the report, the TCEQ classifies water bodies based on the body's ability to support its designated uses. In other words its "Level of Support".[11]

The designated uses for Canyon Lake are flood control, water supply, aquatic habitat, and contact recreation. According to the 2014 TCEQ report, Canyon Lake (Segment ID 1805) had no water quality issues with the exception of a "Screening Level Concern" for Ammonia Nitrogen. All other monitored parameters were classified as either "Fully Supporting" their designated uses of public water supply and fish consumption, "No Concern", or "Not Assessed". The results of the 2014 report are reproduced in Tables 4-11A and 4-11B.

[11] https://www.tceq.texas.gov/waterquality/assessment/14twqi/14txir

The United States Environmental Protection Agency (EPA) also released the water body reports and water quality assessment for Canyon Lake for period 2002 to 2010. The designated uses of the lake were assessed, and all of them were found to be "good".[12]

The USGS sampled eleven sites for Canyon Lake on three different occasions in 1995 (31 January 1995, 17 April 1995, 7 August 1995) for various biological and chemical parameters.[13] The mean concentrations of the various parameters for four of those sites are shown in Table 4-11C. The sampling results indicate that the levels of the various biological and chemical constituents monitored are generally within the criteria set by the TCEQ, and does not have any present or potential water quality problems.

TABLE 4-11A

TCEQ Integrated Assessment Report General Use and Aquatic Life, 2014

Major Constituents	Mean Concentration	LOS
Dissolved Oxygen Screening Level (mg/l)	5.82	NC
E. coli (colonies/100 ml)	3.33	FS
Total Dissolved Solids (mg/l)	253.21	FS
pH (Standard Units)	9.00	FS
Temperature (F)	89.00	FS
Ammonia Nitrogen (mg/l as N)	0.18	CS
Sulfate (SO4) (mg/l)	22.69	FS
Total Phosphorus (mg/l)	—	NC
Nitrate (µg/l)	0.59	NC
Chloride (Cl^-) (mg/l)	16.67	FS
Chlorophyll-a	—	NC
Copper (µg/l)	1.31	FS
Zinc (µg/l)	2.00	FS

LOS: Level of Support
FS: Fully Supporting
NC: No Concern
CS: Screening Level Concern

[12] https://iaspub.epa.gov/waters10/attains_index.search_wb?p_cycle=2010&p_area=TX&p_huc=12030103
[13]https://waterdata.usgs.gov/nwis/inventory?search_station_nm=canyon&search_station_nm_match_type=beginning&state_cd=tx&format=station_list&group_key=county_cd&list_of_search_criteria=state_cd%2Csearch_station_nm

TABLE 4-11B

TCEQ Integrated Assessment Report Public Water Supply Use and Fish Consumption Use, 2014

Major Constituents	Mean Concentration	LOS
Arsenic (µg/l)	2.75	FS
Cadmium (µg/l)	0.26	FS
Chromium (µg/l)	2.00	FS
Fluoride (µg/l)	0.13	FS
Lead (µg/l)	0.13	FS
Nickel (µg/l)	1.70	FS
Nitrate (µg/l)	0.71	FS
Selenium	0.13	FS

LOS: Level of Support
FS: Fully Supporting

TABLE 4-11C

USGS Water Quality Sampling, 1995

Major Constituents	Mean Concentrations (1)			
	Station AC	Station CC	Station DC	Station FC
Dissolved Oxygen @ 1.0 ft depth (mg/l)	8.03	7.97	7.90	7.70
Dissolved Oxygen @ 10.0 ft depth (mg/l)	8.06	8.03	7.90	7.63
Specific Conductance (mho/cm)	372.00	373.00	373.33	397.67
Total Dissolved Solids (mg/l)	205.67	—	203.67	217.34
pH (Standard Units)	8.27	8.27	8.27	8.20
Temperature, F	69.20	70.00	70.39	71.29
Carbon Dioxide (CO2) (mg/l)	1.63	—	1.57	2.03
Alkalinity (mg/l as CaCO3)	153.33	—	150.00	163.34
Hardness, non-carbonate (mg/l as CaCO3)	19.67	—	21.33	26.67
Transparency (Secchi disc, M)	4.68	—	2.31	1.41
Ammonia Nitrogen (mg/l as N)	<0.02	—	0.02	0.02
Nitrate + Nitrite Nitrogen (NO2 + NO3) (mg/l as N)	0.07	—	0.08	0.17
Sodium (dissolved) mg/l as Na	10.00	—	10.33	10.33
Potassium (dissolved) K (mg/l)	1.90	—	1.90	1.83
Chloride (CL) (mg/l)	16.33	—	16.00	16.34
Sulfate (SO4) (mg/l)	17.33	—	17.33	17.67
Calcium (Ca) (mg/l)	41.33	—	41.00	46.34
Magnesium (Mg) (mg/l)	17.00	—	17.00	17.67
Silica (SiO2) (mg/l)	9.13	—	9.17	9.26
Fluoride (F) (mg/l)	0.20	—	0.20	0.23
Manganese (Mn) (µg/l)	<1	—	1.0	<1
Fecal Coliform (2)	(colony count/100 ml)			
Winter	<2	—	<2	—
Spring	<1	—	<1	—
Summer	E1	—	<1	—

(1) Measurements are in mg/L unless otherwise stated. Mean averages are taken at a 1.0-foot depth unless otherwise stated.

NOTES: The water quality sampling for all parameters was conducted on the following dates: Winter: 1 Jan 95; Spring: 17 Apr 95; and Summer: 7 Aug 95. "E" stands for estimated value.

4-09. Channel and Floodway Characteristics. The Guadalupe River downstream of Canyon Lake has a channel capacity ranging from 5,000 cfs in the Guadalupe River at Sattler to 12,000 cfs in the Guadalupe River at Victoria. Existing and proposed channel capacities along the Guadalupe River are given in Table 4-12.

The estimated travel time for flood flows from Guadalupe River at Comfort gage (river mile 396.6) to the Guadalupe River near Spring Branch gage (river mile 334.4) is about 20 hours, to the Canyon Lake (river mile 303.0) is about 21.5 hours, to the Guadalupe River at New Braunfels gage (river mile 279.3) is about 26.5 hours, to the Guadalupe River at Gonzales gage (river mile 191.1) is about 66.5 hours, to the Guadalupe River at Cuero gage (river mile 107.8) is about 102.5 hours, and to the Guadalupe River at Victoria gage (river mile 50.7) is about 140.5 hours. The flood peak travel times in the Guadalupe River basin are shown in Table 4-13 and Plate 4-20.

The locations of the USGS stream gages in the Guadalupe River basin are shown on Plates 5-1a and 5-1b, respectively. Discharge rating curves for the key control points are shown on Plates 4-16 through 4-19. These curves are only valid for rough use. The rating curves used by the Water Resources Branch are adjusted by the USGS for changing conditions and reflect the current stage-flow relationships at the gages.

TABLE 4-12

Channel Capacities on the Guadalupe River

Reach (river mile)	Approximate Streambed Slope (feet per mile)	Channel Width (feet)	Average Height of Banks (feet)	Channel Capacity (cfs)
303.0-244.0	6.0	250	27	28,000
244.0-180.0	2.6	180	24	20,000
180.0-127.0	1.5	220	22	15,000
127.0-89.0	1.8	190	35	30,000
89.0-63.0	2.0	300	21	30,000
63.0-25.0	1.3	180	15	12,000
26.0-0.0	Tidal	160	6	—

NOTE: Based on "Canyon Lake Water Control Manual", revised (Reservoir Regulation Plan) in January 2005.

Table 4-13 and Plate 4-20 show flood peak travel times between upstream gages and Canyon Lake and between Canyon Lake and downstream gages on the Guadalupe River.

TABLE 4-13

Flood Peak Travel Times between Guadalupe River at Comfort Gage and Guadalupe River at Gonzales Gage

Stream Gaging Station and Stream	Travel Time in Hours	Cumulative Travel Time in Hours
Guadalupe River at Comfort gage to Guadalupe River near Spring Branch gage	20	20.0
Guadalupe River near Spring Branch gage to Canyon Lake	1.5	21.5
Canyon Lake to the Guadalupe River at New Braunfels gage	5	26.5
Guadalupe River at New Braunfels gage to Guadalupe River at Gonzales gage	40	66.5
Guadalupe River at Gonzales gage to Guadalupe River at Cuero gage	36	102.5
Guadalupe River at Cuero gage to Guadalupe River at Victoria gage	38	140.5

NOTE: Based on "Canyon Lake Water Control Manual", revised on January 2005.

4-10. Upstream Structures. There are no significant structures upstream of Canyon Lake.

4-11. Downstream Structures. There are no significant structures downstream of Canyon Lake.

4-12. Economic Data. The Guadalupe River watershed is predominantly rural, with an economy based on trade, transportation and utilities, professional business service, and education and healthcare.

Based on the information published by U.S. Census Bureau, the population within the Guadalupe River basin has continually increased over the last 50 years in most counties. Counties that are more metropolitan have grown more rapidly than the rural counties - some of which have grown

very little. Population projections indicate that growth is anticipated to continue. County Business Patterns (CBP), a database published by the U.S. Census Bureau, provides valuable information on the number of industrial and business establishments within a particular county.[14] Sectors that are typically heavy consumers of water include: agriculture and livestock, steam-electric, mining, manufacturing, professional, scientific and technical services, health care and social assistance, accommodation and food services, and military installations. Water use in the watershed area is approximately 41 percent municipal, 38 percent irrigation, 7 percent manufacturing, , and 14 percent mining, livestock and steam-electric.[15] The most concentrated water uses in the area are municipal use in Comal County, and irrigation use in Kerr County.

The following sections provide information on population, agricultural production, and industries in the counties within the Guadalupe River basin and surrounding areas.

a. Population. Canyon Lake watershed comprises parts of Comal, Gillespie, Kendall, and Kerr Counties. Based on the 2016 U.S. Census Bureau data, Comal County has a population of 134,788, of which 55 percent of the population (or 73,959) is in New Braunfels, the county seat. Kendall County has a population of 42,540, of which 35 percent of the population (or 14,725) is in Boerne, the county seat. San Antonio is 45 miles southwest of the lake and New Braunfels is 20 miles southeast of the lake.

The population growth of the 4 major counties within the Guadalupe River basin is shown in Table 4-14. Although varying proportions of the total population of the counties listed lie within the watershed boundaries, the entire population of each county is provided.

TABLE 4-14

Population Growth of Counties within the Guadalupe River Basin

County	1960	1970	1980	1990	2010	2016
Comal	19,844	24,165	36,446	51,832	108,472	134,788
Gillespie	10,048	10,553	13,532	17,204	24,837	26,521
Kendall	5,889	6,964	10,635	14,589	33,410	42,540
Kerr	16,800	19,454	28,780	36,304	49,625	51,504

NOTE: Source: Census.gov

b. Agriculture. According to the 2016 Region L Water Plan, municipal supply comprises about 42 percent and irrigation comprises about 38% of the region's water use.[16] . This amount of water use is projected to grow in coming decades. Surface water use was 24%

[14] www.census.gov/econ/cbp/
[15] http://www.twdb.texas.gov/waterplanning/rwp/regions/c/index.asp
[16] www.twdb.texas.gov/waterplanning/rwp/regions/l

and groundwater use was 76%. Surface water is the primary source for manufacturing and steam-electric power generation uses and groundwater is the primary source for other use types. Table 4-15 lists the acreage of cropland planted in each major crop, the total agricultural acreage, the quantity of livestock, and the agricultural income for each county during the year 2012.

TABLE 4-15

Agricultural Production for Major Counties in the Guadalupe River Basin, 2012

Product	Comal County	Gillespie County	Kerr County	Kendal County
Corn (acres)	149	149	D	—
Cotton (acres)	—	D	—	—
Oats (acres)	40	806	263	277
Sorghum (acres)	D	981	—	—
Wheat (acres)	D	6,003	D	D
Cropland Planted (acres)	14,070	66,437	44,191	27,527
Land in Farms and Ranches (acres)	205,018	652,247	582,252	369,951
Cattle (1000 head)	5	36	11	14
Crop Market Value*	D	11,311	1,313	2,115
Livestock Market Value*	5,521	34,830	9,490	10,415
All Agriculture Market Value*	D	46,140	10,803	12,530

NOTES: 1. (D) Withheld to avoid disclosing data for individual farms.
2. Data from 2012 Census of Agriculture, prepared by National Agricultural Statistics Service, U.S. Department of Agriculture.
3. *Quantity given in $1,000s.

c. Industry. The Guadalupe River basin is primarily farming and ranching area, though a variety of industries are established in the area. The industries of the basin are largely those connected with the processing of local farm products and with the providing of the usual service required at established population centers. The principal minerals processed are oil and gas. According to U.S. Census employment data, the major industries in the region are wholesale and retail trade, and arts, leisure and hospitality. According to the 2016 Region L Water Plan, municipal use comprises about 42% of the region's total water use, and is projected to increase to

53 percent by 2070.[17] Table 4-16 gives the estimated number of people employed in various industries in each county, as compiled by the 2015 United States Census.

TABLE 4-16

Employment in Counties within the Guadalupe River Basin, 2015

Industry	Number Employed			
	Kerr County	Kendal County	Comal County	Gillespie County
Agriculture, Forestry, Fishing & Hunting	12	16	16	15
Construction, Mining, Oil & Gas	1,236	1183	5,589	936
Manufacturing	593	957	2,934	711
Trade, Transportation & Utilities	3,370	3058	11,559	2,089
Finance, Insurance, & Real Estate	713	555	1,767	418
Professional, Scientific & Business Services	1,299	961	2,183	331
Education & Healthcare	4,436	1838	6,495	1,755
Arts, Leisure & Hospitality	2,354	1567	7,652	1,777
Communication & Information	224	125	558	94
Public Administration	0	823	1,654	173
Other Services	1,302	750	2,517	522
Total	15,539	11,833	42,924	8,821

NOTE: Data from the United States Census, 2015.

[17] www.twdb.texas.gov/waterplanning/rwp/regions/l/

d. Flood Damages. The flood damages prevented in the Guadalupe River basin by Canyon Dam and Lake during fiscal year 2016 were estimated to be $39,117,300. The cumulative damages prevented since the completion of the project in 1964 through 2016 are $564,214,406, and the average is $10.6 million per year. Table 4-17 and Table 4-18 show discharge versus damages incurred for agricultural and non-agricultural on the Guadalupe River at New Braunfels and Cuero. The damages shown in the tables are estimated to occur at the various discharge levels, as the exact amount of damage will vary.

TABLE 4-17

Discharge versus Damages on Guadalupe River at New Braunfels, 2016

Discharge (cfs)	Damages (X$1,000)						
	Crops (1)	Crops (2)	Crops (3)	Crops (4)	Crops (C)	Other ag.	Non-ag.
24,000	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
30,000	$214.6	$250.2	$186.0	$241.4	$206.4	$119.6	$104.5
40,000	$457.8	$352.7	$594.5	$527.0	$402.5	$202.6	$2,924.5
60,000	$690.7	$786.3	$499.7	$648.5	$565.0	$318.1	$8,042.5
80,000	$803.4	$920.2	$609.9	$791.6	$686.0	$430.1	$12,184.3
100,000	$868.7	$996.7	$668.7	$867.9	$751.0	$533.7	$15,924.1
120,000	$917.9	$1,052.9	$705.4	$915.5	$792.4	$631.9	$19,866.5
140,000	$959.3	$1,099.9	$734.8	$953.7	$825.5	$729.0	$23,711.4
200,000	$1,033.8	$1,184.5	$787.7	$1,022.5	$885.1	$903.8	$30,632.2

Crops (1) = Jan, Feb, Dec
Crops (2) = Mar, Oct, Nov
Crops (3) = Apr, Aug, Sep
Crops (4) = May, Jun, Jul

NOTES: 1. This table is estimated on roughly available data.
2. Price levels are for September 2016. To convert the prices to a different year, average annual cost indexes must be applied.

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TABLE 4-18

Discharge versus Damages on Guadalupe River at Cuero, 2016

Discharge (cfs)	Damages (X$1,000)						
	Crops (1)	Crops (2)	Crops (3)	Crops (4)	Crops (C)	Other ag.	Non-ag.
20,000	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
25,000	$253.0	$291.4	$170.9	$213.9	$179.6	$116.7	$0.2
30,000	$406.5	$479.5	$325.1	$418.2	$378.8	$196.9	$0.6
40,000	$662.8	$793.1	$580.1	$745.9	$666.6	$357.0	$6.9
60,000	$991.1	$1,142.2	$895.6	$1,151.6	$1,018.4	$626.4	$52.4
80,000	$1,110.2	$1,359.8	$1,111.1	$1,428.7	$1,229.7	$978.8	$162.6
100,000	$1,227.1	$1,509.4	$1,257.2	$1,616.4	$1,426.0	$1,112.4	$377.1
120,000	$1,322.1	$1,630.3	$1,372.7	$1,764.8	$1,544.9	$1,335.3	$1,062.2
158,000	$1,466.4	$1,812.6	$1,541.7	$1,982.2	$1,733.5	$1,775.3	$3,046.9

Crops (1) = Jan, Feb, Dec
Crops (2) = Mar, Oct, Nov
Crops (3) = Apr, Aug, Sep
Crops (4) = May, Jun, Jul

NOTES: 1. This table is estimated on roughly available data.
2. Price levels are for September 2016. To convert the prices to a different year, average annual cost indexes must be applied.

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CHAPTER V - DATA COLLECTION AND COMMUNICATION NETWORKS

5-01. Hydrometeorological Stations.

a. Facilities. The Water Resources Branch of the USACE, Fort Worth District, the NWS, and the USGS cooperate to collect hydrometeorological data and maintain a reliable communication network. Plate 5-1a shows the locations of the USGS stream gages in the Guadalupe River basin. Commercial television weather services provide current radar and forecasted weather conditions to assist the Water Resource Branch in monitoring storm events.

1. Precipitation Gages. The NWS and USGS maintain a network of rain gages and observers throughout the Guadalupe River basin. The NWS precipitation gages used to forecast runoff in the Guadalupe River watershed are listed in Table 5-1 and are shown on Plate 6-1, respectively.

TABLE 5-1

Upstream NWS Precipitation Gages

Name of Station	Description
Bankersmith 2 SE	Recording
Blanco 6.8 WSW	Recording
Boerne	Recording
Bulverde	Recording
Camp Verde	Recording
Canyon Dam	Recording
Canyon Lake 4.1 E	Recording
Center Point 2.4 ESE	Discontinued
Comfort 2	Recording
Fair Oaks Ranch	Discontinued
Fischers Store	Recording
Garden Ridge 3.4 NW	Recording
Harper 6.5 SW	Discontinued
Hunt 10 W	Recording
Ingram 2 NW	Recording
Kendalia	Recording
Kerrville 3 NNE	Recording
Kerrville 4.7 SSE	Recording
New Braunfels AP	Recording
New Braunfels WFO	Recording
Pipe Creek 5.5 NNE	Recording
Sisterdale 2 SE	Recording
Spring Branch 2 SE	Discontinued
Timberwood Park 7.7 ENE	Recording

2. Weather Radar Sites. The NWS maintains 12 Doppler radar sites across Texas for surveillance of immediate weather conditions. The NWS also cooperates with the Department of Defense to obtain radar information from four military sites in Texas.

3. Stream Gages. The USGS maintains over 50 stream gages in the Guadalupe River basin. The gages are listed in Table 5-2A. The stream gages designated as key stations for forecasting and regulating Canyon Dam are listed in Table 5-2B. A hydrologic gage network was established for use in connection with the operation of the Canyon Dam. The hydrologic gage network for the Guadalupe River basin is shown on Plate 5-1b.

TABLE 5-2A

USGS Stream Gages in the Guadalupe River Basin

Station Number	Name of Station	Description
08165300	North Fork Guadalupe River near Hunt	Recording
08165500	Guadalupe River at Hunt	Recording
08166000	Johnson Creek near Ingram	Recording
08166140	Guadalupe River above Bear Creek at Kerrville	Recording
08166200	Guadalupe River at Kerrville	Recording
08166250	Guadalupe River near Center Point	Recording
08166500	Guadalupe River near Comfort	Discontinued
08167000	Guadalupe River at Comfort	Recording
08167200	Guadalupe River at FM 474 near Bergheim	Recording
08167500	Guadalupe River near Spring Branch	Recording
08167600	Rebecca Creek near Spring Branch	Discontinued
08167800	Guadalupe River at Sattler	Recording
08167870	Bear Creek at FM 2722 near Sattler	Recording
08167900	Guadalupe River at Third Crossing near Sattler	Recording
08168000	Hueco Springs near New Braunfels	Recording
08168770	WFk Dry Comal Ck at Schuetz Dam, New Braunfels	Recording
08169500	Guadalupe River at New Braunfels	Recording
08169792	Guadalupe River at FM 1117 near Seguin	Recording
08170500	San Marcos River at San Marcos	Recording
08170800	Blanco River at Crabapple Rd near Blanco	Recording
08170890	Little Blanco River at FM 32 near Fischer	Recording
08170950	Blanco River at Fischer Store Rd near Fischer	Recording
08172000	San Marcos River at Luling	Recording
08173900	Guadalupe River at Gonzales	Recording
08174600	Peach Creek below Dilworth	Recording
08175000	Sandies Creek near Westhoff	Recording
08175800	Guadalupe River at Cuero	Recording
08176500	Guadalupe River at Victoria	Recording

TABLE 5-2B

Key Regulating Stations for Canyon Dam

Station Number	USGS Gage Station	Method of Reporting
08167800	Guadalupe River at Sattler	Recording
08169500	Guadalupe River at New Braunfels	Recording
08173900	Guadalupe River at Gonzales	Recording
08175800	Guadalupe River at Cuero	Recording
08176500	Guadalupe River at Victoria	Recording

b. Reporting. Data Collection Platforms (DCPs) have been installed at all USACE Fort Worth District lakes, and at numerous stream gages and precipitation stations. The DCPs transmit hydrometeorological data using the Geostationary Operational Environmental Satellite (GOES) to the NOAA Center in Wallops Island, Virginia. The data are then decoded and re-transmitted using Domestic Satellites (DOMSATs), making the data available for nationwide reception. The Water Management Office captures, processes, and stores the data in the Fort Worth District's Water Control Data System (WCDS).

The Water Management Office collects and stores the majority of hydrometeorological data in the WCDS. Thus, hourly lake elevations and stream gage stages are stored in the WCDS network. Some meteorological and hydropower data are collected by telephone. Project personnel collect precipitation, evaporation, and, maximum and minimum air temperature data from weather stations. The information is reported to the Water Management Office by e-mail or sometimes by facsimile and telephone.

The Water Management Office personnel use the data in the WCDS to operate the 27 lakes that the Fort Worth District manages. All the data entered into the WCDS is stored in a database and used for water management decisions, to generate reports, and to conduct hydrologic studies. The Water Management Office also serves as a source of hydrologic data for state and local government agencies and the general public.

c. Maintenance. Maintenance costs are shared among the USGS, NWS, USACE, TWDB, and various river authorities. Maintenance and repair of the weather station instrumentation are the responsibilities of the NWS. Maintenance and repair of stream gaging stations are the responsibility of the USGS. Assistance in gage repair can be obtained by contacting the USGS in Fort Worth, Texas, at (817) 263-9545.

5-02. Water Quality Stations. The USGS collects data and monitors the water quality in Canyon Lake at one station near the dam. In addition, TCEQ monitors water quality using 24 active monitoring stations through Guadalupe River basin.[18]

a. Facilities. The eleven designated sites where USGS water quality samples were taken for Canyon Lake are Stations AC, Al, AR, BC, BL, BR, CC, DC, EC, FC and GC. The chemical, biological, and field parameters are measured at these eleven sites. Table 4-11C shows the most recent data for constituents sampled on Canyon Lake.

The Guadalupe River basin is divided into 24 segmented water bodies by TCEQ to report water quality information. The Segment 1805, "Canyon Lake", is designated to provide the water quality data for the reservoir.

b. Reporting. The USGS summarizes and publishes its collected water quality data annually in the "Water Resources Data: Texas" book for its current sampling locations. However, Canyon Lake is not sampled yearly and only years for which it was sampled are published in the yearly data book.

The "Texas Integrated Report of Surface Water Quality," formerly called the "Texas Water Quality Inventory and 303(d) List," evaluates the quality of surface waters in Texas, and provides resource managers with a tool for making informed decisions when directing agency programs. The TCEQ publishes the report every 2 years (in even-numbered years). The water quality assessment results for Canyon Lake are included in the report.

c. Maintenance. Maintenance and calibration of the equipment related to water quality are conducted or monitored by USGS and TCEQ.

5-03. Sedimentation and Degradation Ranges.

a. Facilities. The sedimentation ranges, which are needed to determine the rate of sedimentation and the location of sediment deposits, were established as directed in Engineer Regulation (ER) 1100-2-240 and Engineer Manual (EM) 1100-2-4000.

1. Sedimentation Ranges. There are 42 sedimentation ranges in the Canyon Lake area (Plate 4-3). The ranges cross the lake normal to the original stream flow as practical. The elevations and locations of the monuments are referenced to appropriate datum systems established by other Federal agencies. Monuments are used at multiple locations for future survey at common reference points. Sedimentation ranges have not been utilized at Canyon Lake since the 1972 survey. The TWDB uses bathymetric survey independent of the USACE established sedimentation ranges.

[18] https://www.tceq.texas.gov/waterquality/assessment/02twqi/basins/guadalupe.html

2. Degradation Ranges. There are 9 degradation ranges downstream of Canyon Dam (Plate 4-3). Each range consists of two or more permanent monuments placed at selected locations along the discharge channel downstream of the dam.

b. Reporting. The frequency of sedimentation surveys will depend on hydrologic conditions and the need for determining sediment deposition and storage depletion. Normally, a period of no more than 20 years would elapse between sedimentation surveys. However, sedimentation surveys are currently done periodically depending on need and funding availability. Complete or partial surveys will be made of degradation ranges, as found necessary on the basis of reconnaissance.

For Canyon Lake, two surveys have been performed since the historical 1947 USACE survey, the 1972 USACE survey, and the 2000 TWDB volumetric survey. The 2000 TWDB survey results indicated that the surface area had increased from 8,240 acres in the original design to 8,309 acres and the volume reduced from 386,200 acre-feet of water in the 1947 survey to 378,852 acre-feet of water at the top of the conservation pool elevation 909.0 feet.

c. Maintenance. Project personnel will inspect the survey monuments to determine their respective conditions. A report will be forwarded to the Water Management Office following the inspection that describes the condition of the monuments not found, destroyed, or otherwise disturbed. Monuments and witness points that have been damaged or are missing will be replaced and reset. Completion of monument surveys is dependent on funds and personnel availability.

5-04. Recording Hydrologic Data. Hydrologic information is recorded as the Water Management Office receives it. The recording procedures for each type of data are as follows:

a. Stages and Lake Elevations. Stream stage and lake stage data are recorded every 15 minutes and transmitted every hour by the DCPs through a GOES Satellite to Wallops Island, VA, then retransmitted to a DOMSAT. The District's WCDS accesses the data by a downlink. The recorded data and monthly data summaries are kept in the reservoir logbooks and in other Water Management Office files. Additional data sets from non-Corps reservoirs are received from the Internet, by facsimile, and/or by telephone.

b. Precipitation. Hourly precipitation data from numerous DCPs across the state are transmitted to the Water Management Office in the manner described in paragraph 5-04.a. The Water Management Office also receives precipitation data from the NWS and other precipitation observers through the Automated Field Observations and Services (AFOS) system and stores the data in the WCDS. The NWS daily state precipitation summary is filed and retained for approximately 1 year. The Water Management Office receives daily rainfall and weather reports from 22 of the 25 District lakes, including Canyon Lake.

c. Temperature Data. The lake personnel record the daily maximum and minimum air temperatures at the lake.

d. Radar Reports. The Water Management Office receives radar images and weather information from commercial weather services by cable TV. This information is used primarily for short-term decision making. The weather reports are updated throughout the day by the NWS.

e. Hydropower. The Water Management Office requires hydropower release data and megawatts produced. The data is provided daily (Monday through Thursday) by email or fax from the powerhouse to the Water Management Office for hydropower generation occurring during the previous 24 hour period.

5-05. Communication Network. Canyon Lake is served by telephone, facsimile, email, and cell phone. The telephone number for the Canyon Lake project office is (830) 964-3341.

The National Telecommunications and Information Administration (NTIA), Department of Commerce, assigned radio frequencies exclusively to the USACE. The assigned VHF FM frequencies are 163.5125 and 163.4375 MHz. Both of the VHF FM frequencies are maintained at most project offices and in some vehicles assigned to the Fort Worth District. The radio equipment using the VHF FM frequencies will only transmit about 20 miles. Therefore, radio communications cannot be made between the Canyon project office and the Fort Worth District Office, or between the other district lakes.

If necessary, the Fort Worth District Emergency Operation Center (EOC) can contact other districts in the SWD by HF side-band radio during an emergency. This radio frequency is good for communications between the EOCs in Fort Worth, Texas, Galveston, Texas, Little Rock, Arkansas, and Tulsa, Oklahoma.

5-06. Communication with the Project.

a. Water Resources Branch with Project Office. The primary mode of communication between the Canyon Lake project office and the Water Resources Branch is by telephone. In addition, the project is served by facsimile, email, and cell phone as backups to the primary mode of telephone. Should communication between the project and the District be disrupted, the Lake Manager would direct regulation of the lake on his or her own initiative in accordance with the Emergency Rules and Regulations listed in Section 7-05 and Exhibit E of this manual.

b. Between Project Office and Others. The Lake Manager will maintain a current list of the residents and/or property endangered or inconvenienced by large and/or prolonged releases in order to give adequate warning before such releases. Warning of possible flood conditions can be conveyed by telephone, radio, television, citizens-band radio, use of law enforcement personnel, and civil defense agencies and their communications systems. National Guard, Reserve Military Units, and citizen volunteers may also be needed to convey warning messages. Plate 5-3 shows a schematic of the primary lines of communication for use in routine communications and in case of an emergency.

5-07. Project Reporting Instructions. Both daily lake operation information and emergency lake operation information will be submitted to the Water Management Office of the Fort Worth District.

a. Daily Operations. Daily reservoir data will be submitted to the Water Management Office on regular working days by facsimile or electronic mailing between 0800 and 0845 hours each morning for transmission of hydrologic data. For electronic mailing, the Internet Web site is: (http://www.swf-wc.usace.army.mil). Project personnel will confirm gate changes and promptly report all scheduled or unscheduled equipment outages affecting water control by telephone at (817) 886-1551 or by facsimile at (817) 886-6472 or by email at CESWF-OD-L@usace.army.mil. The Water Resources Branch may request additional information as needed.

Daily data reported to the District Office include the following: (1) As of 0800 hours – Reservoir elevation: number of gates open and increments of opening, precipitation and evaporation for the preceding 24 hours, weather conditions and maximum and minimum temperatures, if required. (2) Each gate operation – All changes in gate operation, including time of gate operation, increments of opening, and reservoir elevation at time of each gate operation for the preceding 24 hours. (3) Stage report – During flood periods, besides the regular 0800-hour reading from the reservoir and reporting gages, include the 0000-hour (midnight) reading, which may be read from the recorder charts. The Canyon powerhouse provides the daily data (Monday through Thursday) of hydropower generation occurring during the previous 24 hour period by email or fax.

b. Emergency Operations. In the event of an emergency or flood situation, the Lake Manager will notify key personnel in the Fort Worth District Water Management Office. A list of these names will be posted on the project bulletin board. These names are shown on page iii, Notice to Users of This Manual. If unusual conditions arise during non-working hours, one of the persons listed on page iii should be contacted.

5-08. Warnings. Before any major increase in discharge due to operation of the gates, warning of such operation shall be given to parties in the immediate area downstream of the dam. A warning horn will be sounded for 10 seconds to alert people downstream at least 2 minutes before any appreciable increase or decrease in the release rate from the dam. After the horn sounds, the operator will observe the downstream area to ensure that no one remains there. Signs in the discharge area shall state the meaning of the warning signal. A warning horn will be sounded from the powerhouse only during the initial releases. The law enforcement agencies shown in Table 5-3 may also be contacted to assist in warning the public and evacuating downstream areas.

TABLE 5-3

Law Enforcement and Key Canyon Project Telephone Numbers

Agency	Telephone Number
Texas Department of Public Safety, New Braunfels, Texas	(830) 625-8111
City of New Braunfels Police	(830) 221-4100
City of San Marcos Police	(512) 753-2108
Sheriff, Comal County	(830) 885-4883
Canyon Lake Manager	(830) 964-3341
Canyon Lake Rangers	(877) 444-6777
GBRA Office Dispatch	(830) 379-5822

CHAPTER VI – HYDROLOGIC FORECASTS

6-01. General. Hydrologic forecasts of stream flow amounts are made daily to maintain the current status of the Guadalupe River basin for flood control and water supply.

a. Role of Corps of Engineers. Hydrologic forecasts are made by the Water Management Office for use in the regulation of lakes to maximize flood control, water supply, and other authorized purposes. The forecasts are furnished to project personnel and other USACE personnel with a need for this information. Planned changes in the release rates are furnished to the National Weather Service River Forecast Center (NWS-RFC) in Fort Worth, Texas. The Public Affairs Office, which is kept informed of the lake conditions, makes news releases.

b. Role of Other Agencies. The NWS-RFC provides information about river flow and flood forecasts to the USACE and the general public. The NWS Weather Wire circuit disseminates this information to subscribing government agencies and news media. The National Weather Service–Weather Service Forecast Offices (NWS-WSFO) issues routine reports containing the following information:

1. Weather forecasts (daily forecasts, severe weather forecasts, and 5-day extended forecasts).

2. Quantitative precipitation forecasts: Four successive 6-hour precipitation forecasts are updated every 12 hours. Three successive 24-hour precipitation forecasts are updated every 12 hours.

3. Three-day river stage forecasts, when conditions warrant, from the NWS-RFC.

4. Urgent priority messages such as severe weather warnings, severe weather watches and statements, and instructions from civil defense centers during emergency situations.

5. Other information reports, on a periodic basis:

(a). Winter weather and road conditions

(b). River and flood warning bulletins

(c). Damage reports

(d). Thirty-day weather forecasts

6-02. Flood Control Forecasts.

a. Requirements. Flood forecasts are required whenever substantial rainfall has fallen above or below Canyon Dam or during the evacuation of the flood pool from Canyon Lake.

b. Methods. Water Managers continually monitor and adjust water releases at USACE projects based on ever-changing hydrometeorological conditions. The Corps Water Management System (CWMS) is the automated decision support tool developed for USACE Water Managers. CWMS tracks the hydrologic cycle and performs scenario-based forecasts that can include stage and flow forecasts, project release scheduling and release review, emergency activation alerts, inundation mapping and economic damage reporting. The CWMS Automated Information System was developed by USACE Hydrologic Engineering Center (HEC) under funding from the Water Management Community of Practice and has been implemented to varying degrees at various USACE Water Management Offices. A CWMS forecasting model has been developed for the Guadalupe River basin by the Fort Worth District, HEC, and USACE MMC (Modeling, Mapping, and Consequences) Production Center. The USACE makes the following forecasts with assistance from the NWS.

1. Predicting Inflow into Canyon Lake. A rainfall-runoff HEC-HMS model was developed within CWMS by the Fort Worth District for the Guadalupe River basin. This model is used to predict the inflow into Canyon Lake. The inflow forecasting model consists of HEC-METVUE and HEC-HMS models that are linked to real-time data with CWMS. Both models use a 1-hour time interval.

Precipitation estimates are available from two main sources: precipitation gages and radar. The NWS uses the data from these sources to produce a suite of hydrologic forecasts. Weather Surveillance Radar–1988 Doppler (WSR-88D), also known as Next Generation Weather Radar (NEXRAD), observes the presence of severe weather and calculates the speed and direction of the weather. The WSR-88D also provides estimated quantitative area precipitation amounts.

The NWS adds to the accuracy of the WSR-88D quantitative precipitation estimates (QPE) through a procedure for improving the radar estimates of rainfall that is referred to as "ground truthing." The precipitation data set produced from the ground truthing is known as the Multi-sensor Precipitation Estimate (MPE). The NWS and other agencies may poll some automated gages on a 4-hour basis, and the poll results may also be used for ground truthing.

Hourly NWS gridded rainfall data is downloaded from the NWS West Gulf Forecasting Center in real-time and processed into HEC-DSS format using HEC-METVUE. The HEC-HMS model is then used to compute runoff from the gridded precipitation. Initial and uniform losses are adjusted to real-time basin conditions within CWMS. These losses are subtracted from the precipitation hyetograph at each subbasin grid cell to obtain the rainfall runoff hyetograph. Each grid cell hyteograph is then routed and combined by the HEC-HMS model to obtain the total inflow hydrograph for Canyon Lake. A map of the Guadalupe River Model subbasins is shown on Plate 4-1.

There is a DCP at Canyon Lake which records the lake elevation. An inflow hydrograph can be computed using observed lake elevations, an elevation-capacity table, and hourly lake releases.

The HEC-HMS model is executed with forecast time and an initial estimate of loss rates as determined by the user. The computed hydrographs at Canyon Lake are compared with observed runoff volume, shape, and time of peak. If the comparison is not favorable, then subbasin loss rates are adjusted accordingly and the HEC-HMS model is re-executed. This calibration process is repeated until the comparisons are favorable. This process ultimately results in a forecasted inflow into Canyon Lake.

2. Predicting Lake Levels. The forecasted inflows as computed by the HEC-HMS model are routed into Canyon Lake. The model will add the routed inflows to the storage in the lake and subtract the releases to forecast the lake elevations.

3. Predicting Flow at Downstream Control Points. The flood forecasting system is used to predict flows in the Guadalupe River at Sattler, New Braunfels, Gonzales, Cuero and Victoria gages. The predicted flows for the control points located downstream of the project are computed by combining the estimated local flow in the river channel. If the predicted flows exceed the downstream channel capacity, no releases will be made.

(a). Estimating Local Flow. Local flow forecasts can be obtained from two sources: the NWS-RFC's river forecast model or Water Management Office HEC-HMS model. If the latter method is used, the subbasin hydrographs for the uncontrolled areas above Canyon Lake are computed using the same procedure discussed in paragraph 6-02.b.(1).

(b). Routing Reservoir Releases to Downstream Control Points. The HEC-HMS model is used to route releases from Canyon Lake to downstream points by using the Modified Puls and Muskingum flow routing methods. The releases are determined based on the predicted available channel capacity at the downstream control points. The determined releases are then incorporated into the HEC-HMS model. The observed flows at the downstream control points on the Guadalupe River are provided by stream gages. The downstream control points are located on the Guadalupe River at the Sattler, New Braunfels, Gonzales, Cuero and Victoria gages. Plate 4-20 shows flood crest travel times in the Guadalupe River basin from the Canyon Lake to the Guadalupe River at Victoria gage.

(c). Regulated Flow. The releases from Canyon Lake combine with local flows below the dam and are measured by the gage on the Guadalupe River at Sattler.

6-03. Conservation Purpose Forecast. The GBRA has contracted for conservation storage in Canyon Lake for 100 percent (366,400 acre-feet) of the conservation storage between elevations 800.0 and 909.0 feet. The conservation storage is used for water supply, hydropower, fish and wildlife, and general recreation. Conservation storage forecasts are made when needed based on forecasted inflow, historical average evaporation, and estimated demand. Any low-flow releases for the purpose of satisfying riparian and appropriative rights, pollution abatement, and fish and

wildlife requirements from the conservation storage space of Canyon Reservoir will be the responsibility of the GBRA. GBRA will make requests for these releases through the District Engineer. The releases from conservation storage will be made only in accordance with specific directions from the District Engineer.

Releases from Canyon Lake for conservation purposes will be made through the turbines or the Howell-Bunger valve on receipt of written daily requests made from the GBRA. In the event that the GBRA finds it necessary to modify its schedules for releases because of varied demands during any period, then its designated representative will contact Water Management Office and indicate the revised demands, a confirmation of which will be furnished in writing to the Water Management Office.

6-04. Long-Range Forecast. Long-range weather forecasts are made by the NWS Climate Prediction Center, and available at the "Outlooks Index" in the website http://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.shtml. The Outlooks website contains both temperature and precipitation forecast for "Monthly to Seasonal" and "Extended Range" categories. Special products, such as current UV Index forecasts and soil moisture outlooks are also available on this website.

6-05. Drought Forecast. Appendix II, Drought Contingency Plan, for the Guadalupe River Basin Master Manual provides information on historical droughts in the basin and methods to determine the severity of a drought. In general, the three factors used to determine the severity of a drought are the lake content, lake inflow, and the Palmer Drought Severity Index (PDSI). The PDSI reflects the cumulative excess or deficiency in moisture relative to seasonal norms and typically ranges from +4 to -4 but may exceed these values. A PDSI of -4 indicates that abnormally dry conditions have prevailed. The NWS publishes the PDSI about once a week. Drought conditions can be accessed at this website: http://www.cpc.ncep.noaa.gov/products/monitoring_and_data/drought.shtml

CHAPTER VII – WATER CONTROL PLAN

7-01. General Objectives. Canyon Dam and Lake was authorized for flood control, water supply, non-Federal hydropower, fish and wildlife streamflow regulation and recreation on the Guadalupe River. Flood control releases from Canyon Dam within the Guadalupe River Basin are made to optimize maximum basin wide benefits. Emergency regulations must be coordinated with the Fort Worth District Water Management Office as discussed in paragraph 7-04.

All elevations referred to in Chapter 7, unless noted otherwise, are in feet, National Geodetic Vertical Datum of 1929 (NGVD29). The datum conversion from NGVD29 to North American Vertical Datum of 1988 (NAVD88) is: NGVD29 + 0.3 feet = NAVD88 for Canyon Dam and Lake.

7-02. Project Constraints. At elevation 909.0, with the two slide gates fully open, the discharge is 4,600 cfs. At the top of flood pool elevation 943.0 with the two slide gates fully open, the discharge is 5,100 cfs. For pool elevations greater than 944.6 feet (5,000 cfs), high flow over the spillway will create high tailwater and submerge the downstream end of the outlet works conduit and may cause significant damage to the stilling basin if the outlet works are operated at these pool elevations. Therefore, the flood gates should be closed when flows over the spillway are 5,000 cfs or greater. The outlet works rating curves are shown on Plate 7-3.

a. Outlet Works. The outlet works consist of a 9.33' diameter steel lined conduit with an invert at elevation of 775.0 feet. The outflow is controlled by two 5.67' x 10.0' hydraulically operated slide gates. The rate of change in opening and closing the gates should not be more than 0.5 gate-foot per half hour. The gates should be operated as symmetrical as practical with an allowable difference in gate openings not to exceed one foot.

Gate settings between 4.5 feet and 7.0 feet should be avoided as the flows in this range are unstable according to field testing completed in December 2004. The rate of change for opening and closing the gates for gate openings between closed and 4.5 feet should be no greater than 0.5 feet per gate per 30 minutes. Once the both gates are opened to 4.5 feet, a structural and hydraulic engineer from the Fort Worth District shall be on-hand to observe any additional opening of the gates. It is recommended to open the gates from 4.5 feet to full open (10.0 feet) to avoid "slugging" in the conduit. The term "slugging" is defined as the result of discharges alternating between open channel flow and pressurized flow in the conduit and can cause damage to the outlet works.

The normal rates of change in release may be exceeded at the discretion of the Chief, Water Management Office. Additionally, the Fort Worth District Water Management Office, or the Lake Manager, at their discretion, may exceed the normal rates of change in release in the event of drowning, accidents, failure of operational facilities, severe weather, or other emergencies deemed to require a more rapid rate of increase or decrease in the rate of release.

b. Spillway. The spillway consists of a 1,260 foot wide uncontrolled broadcrested weir located on the right bank about 3,800 feet south of the flood control intake structure. The top of the flood control pool and the spillway crest is at elevation 943.0 feet. The 1959 Study Maximum Design Water Surface elevation is 969.1 feet, in which the spillway discharge capacity is 502,800 cfs. The 1983 PMF corresponds to a Maximum Design Water Surface elevation of 973.4 feet, with a spillway discharge capacity of 627,608 cfs. A spillway rating curve is shown on Plate 7-4.

7-03. Overall Plan for Water Control. Canyon Dam is the only Federal dam operated by the Fort Worth District Water Management Office within the Guadalupe River Basin. Canyon Dam and Lake is an integral part of the USACE plan for flood control in the Guadalupe River Basin. Canyon Lake regulates flow in the Guadalupe River Basin according to the downstream gages of the Guadalupe River at Sattler, above Comal River at New Braunfels, at Cuero, and at Victoria. Refer to Table 7-1, "Downstream Control Points", for details on downstream channel control capacity pertinent to Canyon Lake.

7-04. Standing Instructions to Project Personnel. The Fort Worth District Water Management Office will issue instructions for making releases from Canyon Dam to project personnel. Project personnel will make gate changes as necessary to provide the required rate of release. The Fort Worth District Water Management Office should be notified if irregularities are observed such as abnormal turbulence, abnormal flow patterns, riprap displacement, and/or significant erosion. The lake will normally be regulated in accordance with the plan of regulation presented in paragraph 7-05 of this chapter.

Should an emergency situation occur, such as a power outage, inoperable gates, or a drowning accident, the Fort Worth District Water Management Office will be notified immediately. In the event communications with the Fort Worth District Water Management Office are disrupted, the lake regulation will become the responsibility of the Lake Manager, in accordance with Plate 7-2, "Emergency Regulation Plan" and Exhibit C, "Standing Instruction for Lake Manager" of this manual. The Lake Manager will immediately make every effort to re-establish communications with the Fort Worth District Water Management Office.

7-05. Flood Control.

a. General. Release of flood water from Canyon Dam and Lake will be made to reduce flooding in the Guadalupe River basin. The lake level will be lowered to the conservation pool at the earliest practical date in order to provide flood protection against potential subsequent storms.

Releases from Canyon Dam and Lake will generally be made at a rate, so that when combined with the runoff from downstream areas, will not exceed the control point capacities at the gage locations shown in Table 7-1, "Downstream Control Points". Control point capacities will not be modified for minor stage shifts, however, control point capacities will be reassessed for significant stage changes that impact structures and/or property. For downstream travel times refer to Table 7-2. Should the Fort Worth District Water Management Office need to deviate

from the reservoir regulation release plan, the Southwestern Division Water Management Office will need to be contacted for a deviation approval. Refer to Section 7-15 (Deviation from Normal Regulation) for more details regarding deviations.

b. Normal Regulation for Flood Control. Canyon Dam and Lake will be regulated to reduce flooding downstream from the dam. Gates will be closed and will remain closed until it has been determined that the flow downstream from the dam has crested or is forecast to crest below the control point capacities shown in Table 7-1. The Normal Regulation for Flood Control schedule is described below and is also shown on Plate 7-1.

TABLE 7-1

Downstream Control Points

River Channel and USGS Gaging Station	Control Capacity (cfs)
Guadalupe River at Sattler	5,000
Guadalupe River above Comal River at New Braunfels	12,000
Guadalupe River at Cuero	12,000
Guadalupe River at Victoria	12,000

TABLE 7-2

Travel Times from Canyon Dam (River mile 303.0)

River Channel and USGS Gaging Station	Estimate Travel Time	Cumulative Travel Time	Distance below Dam (river miles)
Guadalupe River at Sattler	1 hour	1 hour	1.7
Guadalupe River above Comal River at New Braunfels	5 hours	6 hours	23.8
Guadalupe River at Cuero	4 days	4.25 days	195.2
Guadalupe River at Victoria	3 days	7.25 days	252.3

TABLE 7-3

Low Flood Pool Release Guidance

Pool Elevation Range (ft)	Flood Pool Range (%)	Release Rates* (cfs)
909.0 – 909.5	0.0 – 1.2	300**
909.5 – 910.0	1.2 – 2.4	300 – 600***
910.0 – 911.0	2.4 – 4.7	600 – 1100

*Desired rate of release will vary with prevailing rates of inflow, lake evaporation, and water supply withdrawals. General objective is to evacuate from 4.7% to 2.4% of the flood pool in about one week, from 2.4% to 1.2% the following week, then from 1.2% to top of conservation pool (909.0) over an additional two to three week period.
**Minimum turbine release.
***Maximum turbine release.

(a). **Lake elevation at or below 909.0.** No flood control releases will be made when the lake level is at or below the top of conservation pool (elevation 909.0). Releases from the conservation storage will be made as instructed by the Fort Worth District Water Management Office at the request of the Guadalupe-Blanco River Authority (GBRA). Releases ranging from about 300 cfs to 600 cfs can be made through the Canyon Lake Hydropower turbine. An additional 500 cfs can be discharged through the Howell-banger valve. Therefore a total of 1,100 cfs can be released with both the hydropower and the Howell-banger valve.

(b). **Lake elevation between 909.0 and 911.0.** When the lake elevation is above 909.0 feet (the top of conservation pool), and is forecasted to remain below elevation 911.0 feet, the suggested flood control releases for this range of elevation will be made not to exceed 1,500 cfs. Flood control releases will normally be made not to exceed the control point capacities shown in Table 7-1.

(c). **Lake elevation between 911.0 and 943.0.** When the lake elevation is above 911.0 feet, and is forecasted to remain below elevation 943.0 feet (top of control flood), the suggested flood control releases for this range of elevation will be made not to exceed 5,000 cfs. Flood control releases will normally be made not to exceed the control point capacities shown in Table 7-1.

(d). **Lake elevation above 943.0.** As the lake elevation rises above top of flood pool and spillway crest elevation 943.0 feet the gated release shall be adjusted as required such that the combination of spillway discharge and gated release does not cause the control point capacities listed in Table 7-1 to be exceeded. All gates will be closed at such time as spillway discharge alone exceeds 5,000 cfs is sufficient to cause the control point capacities

listed in Table 7-1 to be met or exceeded. A hydraulic engineer from the Fort Worth District Water Management Office should be on site to evaluate impacts of any spillway erosion before the flood gates are opened when the spillway flow exceeds 5,000 cfs.

When flow over the spillway begins, adjust the flood-gates so that the total spillway plus outlet works discharge does not exceed 5,000 cfs. When spillway capacity of 5,000 cfs is reached, all gates should be closed, with flow over the spillway only.

(e). **Lake elevation above 943.0 and falling.** Gated release when combined with spillway discharges should not exceed the control point capacities listed in Table 7-1 above. As the lake elevation begins to fall and the spillway flows decrease, the gated releases may be increased as long as the combined gated plus spillway release does not cause the control point capacities shown in Table 7-1 to be exceeded.

c. Emergency Regulation for Flood Control. If communications between the Fort Worth District Water Management Office and the Canyon Dam Project Office are disrupted, the Lake Manager, on his own initiative, will direct regulation of the reservoir as described in Exhibit C - Standing Instructions to Lake Manager and the Emergency Regulation Plan shown on Plate 7-2, until communication is restored. The term "emergency reservoir regulation" applies at any time when personnel at the dam have lost communications with the District Office personnel who normally direct regulation procedures. In the event of a communication failure during imminent failure of the dam, the Project Manager may open or close the outlet work gates as deemed necessary in an attempt to prevent a dam failure. Continued efforts will be made to re-establish communications with the Fort Worth District Water Management Office.

7-06. Recreation. Recreation is an authorized project purpose, however, there is no storage or releases specifically designated for recreation. Requests for special releases will be considered as the situation warrants. All recreation area access roads are constructed above the top of conservation pool, elevation 909.0. Some access roads will be inundated as the lake level rises into the flood control pool but parks will still be accessible.

7-07. Water Quality. Water quality is not an authorized project purpose. Lower flows are released through the power plant and the Howell Bunger valve. Compliance with Public Law 92-500 requires that all federal facilities be managed, operated, and maintained to protect and enhance the quality of water and land resources through conformance with applicable federal, state, interstate, and local substantive standards.

7-08. Fish and Wildlife. GBRA generally controls releases for Fish and Wildlife. A provision for fish and wildlife from Canyon Dam directs releases of 90 cfs to protect and enhance fish and wildlife resources in the Guadalupe River. The flow may be reduced to not less than the inflow to the reservoir during periods of drought. This defined “drought” begins the day after any period of forty-five consecutive days during which the inflow to Canyon Reservoir averages less than 90 cfs, and shall continue until the lake elevation returns to elevation 909.0 feet.

7-09. Water Supply. The Guadalupe-Blanco River Authority has a water supply storage contract with the USACE for Canyon Dam, dated 20 September 1957 for conservation storage space between elevation 800.0 and 909.0. The remaining 2,925 acre-feet (2000 survey) of storage below elevation 800.0 is reserved for sediment storage as needed

The daily amount of release requested from GBRA from Canyon Lake is reported to the Fort Worth District Water Management Office the following morning. Releases from the outlet works and or powerhouse are made to supply water for Fish and Wildlife and downstream users.

a. Contract No. DA-41-443-CIVENG-58-64, 20 September 1957 with GBRA was approved by the Secretary of the Army on 20 September 1957. Refer to Exhibit B.

7-10. Hydroelectric Power. Non-Federal Hydropower was approved for the project of Canyon Dam and Lake. Guadalupe-Blanco River Authority (GBRA) built a Hydroelectric Power Plant in August 1987 and it was put into service in February 1989. The GBRA is the local agency with rights to the water in the conservation pool of the Canyon Lake. GBRA operates the hydropower facilities through a license from the Federal Energy Regulatory Commission, with permits from Texas Commission on Environmental Quality (TCEQ) and the USACE. Additional water released through the hydroelectric units is used to operate several small hydroelectric plants downstream from New Braunfels. It is also used by the GBRA for municipal water supply, irrigation, and industrial uses.

Flood releases can be made in one of two methods. The first is, releases are regulated through the hydropower facility that is operated by GBRA. The hydropower release is limited to a maximum discharge of 1,100 cfs, of which, 300 cfs through each turbine and 500 cfs through the Howell-bunger valve can be obtained. The second method of regulating flood releases, is through the flood gates. When transitioning from hydropower to flood gate releases, and in the reverse transitioning from flood gates to hydropower, the change is made in coordination and cooperation with GBRA and the Canyon Lake Project Office.

7-11. Navigation. Navigation is not a project purpose.

7-12. Drought Contingency Plans. When the Guadalupe River basin is in a drought condition and the lake levels are lower than normal, refer to the Drought Contingency Plan for the Guadalupe Basin, Appendix II of the Guadalupe River Master Manual. The plan presents a broad outline of actions necessary to manage the water resources in the Fort Worth District Water Management Office during a drought.

7-13. Emergency Action Plan. The Emergency Action Plan (EAP) contains detailed instructions and procedures to be followed by USACE personnel at the Canyon Dam Project Office to properly handle any event at the project that could develop into an emergency condition. The most current edition of the EAP is located in the Geotechnical Branch, Fort Worth District and is dated September 2017. The contact information in the EAP is updated

annually. Copies of this EAP are also available in the Fort Worth District Water Management Office and at the Canyon Lake Project Office.

7-14. Other. As the lake level approaches the top of the conservation pool (elevation 909.0) when evacuating floodwater, the releases will be tapered to minimize downstream erosion and prevent fish kills. See Table 7-3 for the recommended rate of tapering the releases. Whenever practical, flood releases will be made through the hydropower facility.

7-15. Deviation from Normal Regulation. There are occasions when it is necessary or desirable to deviate from the water control plan for short periods of time. Prior approval for a deviation is obtained from the Southwestern Division Water Management Office (CESWD-RBT-W). The requirement for prior approval of action from CESWD may be suspended in extreme emergencies. All deviations will be recorded and will be stored in electronic format. Analysis of the expected impacts of a proposed deviation will include consideration of its effect on dam safety. Deviation requests usually fall into the following categories:

a. Emergencies. Emergencies that can occur are drowning(s), failure of the operation facilities, and flushing of pollutants. Under emergency conditions necessary action is taken immediately by the Lake Manager, unless such an action creates an equal or worse condition. For emergencies, the Fort Worth District Water Management Office will be informed as soon as practicable as to the nature of the emergency and the subsequent response by telephone, email, or fax. Follow-up written documentation explaining the deviation will be furnished to the Southwestern Division Water Management Office as soon as practical.

b. Unplanned Minor Deviations. There are unplanned instances that create a temporary need for minor deviations from the normal regulation of the lake. These unplanned instances are not considered emergencies and require prior approval for deviations. Construction accounts for the majority of unplanned deviations. Possible reasons for unplanned deviations include stream crossings of pipelines, bridge work, embankment repair, utility placement, and other major construction contracts. Requests for changing release rates can vary from a few hours to a few days.

Each request is analyzed on its own merit. Consideration is given to upstream and downstream watershed conditions, potential flood threats, conditions of the lake, and possible alternative measures. In the interest of maintaining good public relations, the requests for deviation are usually approved, provided that there are no adverse effects on the overall operation of the project, or other projects. Approval of these minor deviations will be obtained from the Southwestern Division Water Management Office.

c. Unplanned Major Deviations. There are unplanned instances that may be considered for major deviations from the normal regulation plan, but are not emergencies. Requests for changes in release rates generally involve short time periods ranging from a few hours to a few days in an effort to minimize damages or optimize benefits. Flood control releases account for

the major portion of these incidents and typical examples include project pre-releases or flows exceeding downstream channel capacity.

Each request is analyzed on its own merit. In evaluating the proposed deviation, consideration must be given to the upstream and downstream watershed conditions, potential flood threats, condition of the lakes, and possible alternative measures that can be taken. Approval of these major deviations will be obtained from the Southwestern Division Water Management Office.

d. Planned Deviations. Each planned deviation is analyzed on its own merit. Sufficient data on flood potential, lake and watershed conditions, possible alternate measures, benefits to be expected and possible effects on other authorized and useful purposes will be presented with each deviation. Each recommended deviation is submitted in writing to the Southwestern Division Water Management Office for review and approval. An example of a planned deviation is a need to maintain or inspect an aspect of the project. Approval of such deviations will only be granted when the evaluations have been fully reviewed and verified to be necessary. Any concerns with "Dam Safety" will be taken into consideration as well with deviation approvals.

7-16. Operation Curves and Tables. The Spillway Rating Curve is shown on Plate 7-4. The Evaporation Curves are shown on Plate 7-5. The Tailwater Rating Curve at the dam site is shown on Plates 7-6. The Area Capacity Curves are shown on Plate 7-7. The tabulated values are shown on pages T7.4-1 thru T7.4-110 of this water control manual.

CHAPTER VIII – EFFECT OF WATER CONTROL PLAN

8-01. General. Canyon Lake is a multiple-purpose project that is designed for surge regulation on the Guadalupe River to provide flood control for New Braunfels and downstream and supply water to the GBRA service area which includes Kendall, Comal, Hays, Caldwell, Guadalupe, Gonzales, DeWitt, Victoria, Calhoun and Refugio counties. The lake is also used for hydropower generation, and recreation and wildlife management.

8-02. Flood Control.

a. Spillway Design Flood. A Spillway Design Flood study was performed for Canyon Dam at the time it was initially designed. A supplement No. 1 to Design Memorandum (DM) No. 12 on "Canyon Reservoir, Guadalupe River, Texas, Hydrology (Revised)" was prepared by USACE, Fort Worth District on February 1959. The spillway design flood hydrographs for Canyon Dam and Lake were discussed in Supplement No.1 of the DM No.12.

1. Spillway Design Storm. The selection of the Spillway Design Storm was based on all major Texas storms of records which were caused by meteorological conditions that would permit their occurrence over the Guadalupe River watershed above the Canyon Dam site. Rainfall depth-duration curves for these storms were submitted to the Hydrometeorological Section of the River and Flood Division, U.S. Weather Bureau, for analysis. After their analysis, the Hydrometeorological Section submitted as their preliminary estimate of the maximum possible precipitation a total average depth over the watershed of 24.5 inches in 60 hours. In addition, the Hydrometeorological Section furnished an isohyetal map representing period of the design storm. The depth-duration relation as recommended by the Hydrometeorological Section has been adopted as a basis for the Spillway Design Storm.

2. Minimum Infiltration Rates. The computed infiltration rates for the upper Guadalupe River watershed varied from a minimum of 0.13 inches per hour to a maximum of 0.82 inches per hour. An initial loss of 1.00 inch and a uniform infiltration rate of 0.15 inch per hour have been adopted for the Spillway Design Storm in accordance with 6th endorsement ENGWE to the letter transmitting Design Memorandum No. 12. These runoff coefficients when applied to the Spillway Design Storm rainfall produced a 16.92 inches (including runoff from reservoir surface), or 60.06 percent of the rainfall for the Spillway Design Storm. The rainfall-excess for the Spillway Design Storm is shown on Plate 8-1.

3. Unit Hydrographs. A study was made of all isolated storms and their respective runoff hydrographs at the gaging stations on the Guadalupe River watershed above the Canyon Dam site and on the Blanco River at Wimberley in order to determine unit hydrographs. Synthetic unit hydrographs for the watershed above the Canyon Dam site were developed by the use of a method described in EM 1110-2-1405 (Engineering Manual for Civil Works Construction, Part CXIV, Chapter 5, dated March 1948). The synthetic unit hydrographs were developed for two conditions of storms rainfall: condition (a), for the maximum 12-hour rainfall

pattern as furnished by the Hydrometeorological Section, and condition (b), for a uniform distribution of rainfall over the watershed. Using the derived values for peak discharge and lag, and a base length of 72 hours, synthetic unit hydrograph for natural flow at the dam site was developed for a 3-hour period of rainfall-excess. The coefficients used in Synder's equations for the derivation of synthetic unit hydrographs for both conditions of storm rainfall are values of 0.80 for C_t and 400 for C_p640.

In the development of unit hydrographs for full reservoir conditions, the head of reservoir has been assumed to be about 23.5 miles above the dam site. The area tributary to the head of the reservoir has a drainage area of 1,309 square miles. The 116 square miles of drainage area between the head of the reservoir and the Canyon Dam site were broken down into 17 areas: reservoir area, area adjacent to the reservoir composed of numerous small areas with no well-defined drainage lines, and 15 areas each drained by a stream flowing directly into the reservoir. The method used for developing the hydrographs for these areas are as follows:

(a). The runoff from the reservoir area of 20 square miles was not included in the unit hydrograph for flow into full reservoir. The runoff rates were assumed equal to the rainfall rates and added directly to the computed spillway flood.

(b). One hydrograph was constructed for the 35 square miles of area adjacent to the reservoir which consists of numerous small areas.

(c). One hydrograph for areas draining directly into the lake was constructed for six areas of 2, 2, 2, 2, 2, and 3 square miles, one for two areas of 1 square mile each, one for four areas of 4 square miles each, one for two areas of 7 and 8 square miles, and one for 15 square miles.

The final unit hydrograph for flow into full reservoir for the entire area above the dam site (exclusive of the reservoir area) for a 3-hour period of rainfall was obtained by plotting the hydrographs discussed above, inclusive, for one inch of run-off and adding the ordinates graphically.

4. Spillway Design Flood Hydrographs. In order to determine the critical conditions of the Spillway Design Flood at the Canyon Dam site, the Spillway Design Storm was distributed uniformly over the watershed above Canyon Dam and two flood hydrographs were computed. The first hydrograph was determined for natural flow at the dam site based on the distribution graph discussed in Section 8-02, a.3. The computed hydrograph has a peak discharge of 622,300 cfs and volume of 1,277,600 ac-ft. The second hydrograph representing flow into full reservoir was computed using the unit hydrograph derived for flow into full reservoir plus the run off from the 20 square miles reservoir surface at a rate equal to the rate of rainfall. The computed hydrograph with a peak discharge of 687,000 cfs and volume of 1,285,800 acre-feet was adopted as the Spillway Design Flood.

The routing computations showed that the lake would reach a maximum elevation of 969.1 feet and the peak outflow was 508,000 cfs, with 502,800 cfs through the spillway and 5,200 cfs through the outlet works. Plate 8-1 shows the lake elevation and Spillway Design Flood hydrographs in the 1959 study.

b. Standard Project Flood. In March 1983, a Spillway Design Flood study for Canyon Lake was prepared under the Dam Safety Assurance Program outlined in Draft ER 1130-2-417. The purpose of the study was to review the adequacy of Canyon Dam with respect to the hydrologic criteria provided in Hydrometeorological Report No. 51 (HMR-51), June 1978, subject: "Probable Maximum Precipitation Estimates, United States East of the 105th Meridian". The study consisted of hydrologic analysis for Canyon Dam Probable Maximum Flood (PMF) and Standard Project Flood (SPF), as discussed in the following sections. For the SPF study, it was assumed that a Standard Project Storm would occur 5 days prior to the Probable Maximum Storm (discussed in Section 8-02, c.1). The antecedent Standard Project Storm was assumed to have a total rainfall amount equal to 50 percent of the full Probable Maximum Storm rainfall amount. The Standard Project Storm rainfall was 17.73 inches or 50 percent of the full Probable Maximum Storm rainfall of 35.45 inches. It was assumed that the Standard Project Storm was centered in the same location as the Probable Maximum Storm and possessed the same ellipse characteristics as the Probable Maximum Storm. The details of Probable Maximum Storm are discussed in Section 8-02, c.1.

The SPF hydrograph representing flow into full pool was computed using the same parameters as in the PMF analysis discussed in Section 8-02, c.4 except rainfall was one-half of the Probable Maximum Storm rainfall distributed according to the SWD distribution. The computed SPF hydrograph has a peak discharge of 333,100 cfs. The SPF was routed through Canyon Lake through the emergency spillway, as the outlet works was inoperable. The reservoir level of Canyon Lake continued to rise during passage of the SPF and had reached elevation 947.60 feet by the beginning of the Probable Maximum Storm.

c. Probable Maximum Flood. The following paragraphs describe the details of PMF analysis in the 1983 study.

1. Probable Maximum Storm. The Spillway Design Storm rainfall above the Canyon Dam Site was determined in accordance with the method described in HMR-51. A Hopbrook reduction factor of 5.0 percent was applied to the Spillway Design Storm rainfall to account for shape and target effects. However, since a hypothetical elliptical transposition of the PMF was used in the study the Hopbrook reduction factor was reduced by 50 percent in accordance with letter SWDED-XW dated 13 January 1978, subject: "Probable Maximum Flood." The resulting average over area 96 hour rainfall total is based on a critical centering of the hypothetical elliptical PMP at a location approximately 5 miles west of the town of Comfort.

2. Minimum Infiltration Rates. The adopted infiltration indices are taken from "Design Memorandum No. 12 on Canyon Reservoir, Guadalupe River, Texas - Hydrology (Revised)" dated November 1957. The adopted indices are an initial loss of 1.00 inch and a

uniform loss rate of 0.15 inch per hour. Application of these assumed losses to the Spillway Design Storm rainfall produced an estimated runoff of 23.0 inches, or 66.6 percent of the total rainfall of the Spillway Design Storm.

3. Unit Hydrographs. Unit hydrograph determinations were made for the upper Guadalupe River watershed storm of August 1978. This storm was selected because of its large rainfall amounts and extensive areal coverage. In addition, hydrographs were available at several locations in the area above Canyon Dam site. These unit hydrograph determinations were used as a basis for the adoption of a C_t of 0.6 and C_p640 of 620 for use in Synder's equations for the derivation of synthetic unit hydrographs for the Guadalupe River watershed.

4. Unit Hydrograph for Flow into Full Lake. The total drainage area of 1,425 square miles above the Canyon Dam site was divided into 9 sub-basins as follows: Reservoir area, area adjacent to the north side of the reservoir, intervening area between Comfort and the head of the reservoir, intervening area between the Johnson Creek mouth and Comfort, intervening area between the North Fork-South Fork confluence and Johnson Creek mouth, the drainage area above the mouth of Johnson Creek, the drainage area above the North Fork mouth, and the drainage area above the South Fork mouth. The sub-basins layout is shown on Plate 8-2. Unit hydrographs for the sub-basins were determined using the method as follows:

(a). The reservoir area at the top of the flood control storage (elevation 943.0) is 12,890 acres or about 20.1 square miles. The runoff from the 20.1 square miles of reservoir was not included in the unit hydrograph for flow into full reservoir, but runoff rates for the reservoir area were assumed equal to the rainfall rates and added directly to the computed spillway design flood hydrograph.

(b). One composite unit hydrograph was constructed for each of the two areas adjacent to the reservoir. This composite unit hydrograph was computed in accordance with the method in "Design Memorandum No. 12 on Canyon Reservoir, Guadalupe River, Texas – Hydrology (Revised)" dated November 1957. The unit hydrograph for these areas was developed using a C_t of 0.6 and C_p640 of 620.

One unit hydrograph was computed for each of the six areas above the head of the reservoir using a C_t of 0.6 and C_p640 of 620. In general, these unit hydrographs were constructed in accordance with the method described in EM 1110-2-1405. However, it was necessary to reshape the "bell" portion of each of these unit hydrographs in order to obtain good reproductions of the August 1978 storm flood hydrograph.

5. Routing Reach Parameters. Three routing reaches were used in the establishment of the Canyon Lake hydrologic model. These reaches include the Guadalupe River from the North Fork-South Fork confluence to the mouth of Johnson Creek; the Guadalupe River from the mouth of Johnson Creek to the town of Comfort; and the Guadalupe River from the town of Comfort to the head of Canyon Lake. Reach routings were performed using a modified puls method based upon a linear storage-discharge relationship for each reach. The linear

storage-discharge relationship is a function of routing reach travel time. Travel times for each reach during the Spillway Design Storm were established from extrapolation of discharge vs. travel time curves developed for each reach from gage records. The adopted routing reach travel times for the Spillway Design Flood are as follows: 1 hour for the North Fork-South Fork to Johnson Creek mouth reach; 4 hours for the Johnson Creek mouth to Comfort reach; and 14 hours for the Comfort to head of Canyon Lake reach.

6. Probable Maximum Flood Hydrographs. The PMF hydrographs representing flow into full pool was computed using the unit hydrograph developed for each sub-area, the routing reach parameters discussed above, the rainfall from HMR-51 distributed according to the SWD distribution, the infiltration rates discussed above, and the runoff equal to the rate of rainfall from the lake surface. The routing computations for flow into a full reservoir indicated that the lake would rise to a maximum level of 973.4 feet and the peak inflow would be 750,641 cfs with a volume 1,748,000 acre-feet. Freeboard requirement based on design wind speed of 57 mph is 5.6 feet for the PMF. Thus freeboard is deficient by approximately 5 feet. Plate 8-3 shows the PMF inflow-outflow hydrographs and the reservoir surface elevations.

d. Other Floods. Based on historical data, the maximum known flood in the vicinity of the dam on the Guadalupe River occurred December 1913 with a peak flow of 140,000 cfs. The record lake elevation is 950.32 feet, which occurred on 6 July 2002. Additional information on historical floods can be found in Section 4-06 of this manual.

8-03. Recreation. Facilities such as public boat ramps, docks, restrooms, picnic shelters, fishing piers, and campsites have been provided. Public use of USACE lakes is governed by Title 36 of the Code of Federal Regulations. The 10-year average annual visitation to Canyon Lake is 605,560.

A rise or fall in the lake elevation at Canyon Lake has some effect on the lands surrounding the lake, recreational facilities, and project visitation. A rise above elevation 909.0 temporarily restricts the use of many recreational facilities due to inundation or loss of access. Other effects associated with high water levels include the accumulation of driftwood, the degradation of surrounding vegetation, and increased shoreline erosion.

A substantial lowering of the pool elevation, due to water supply or hydropower requirements or drought, exposes aesthetically unpleasing banks and mud flats, and creates a boating hazard due to increased shallow areas. Boat ramps and beaches may also become unusable during drawdown periods. Although fluctuation of the pool level is unavoidable, the effects on recreational opportunities can be reduced by placing roads, utilities, and recreational facilities in locations less prone to flooding.

8-04. Water Quality. Water quality is not an authorized purpose at Canyon Lake. However, available data indicates that generally good water quality conditions exist. Additional water quality data can be found in Section 4-08.

8-05. Fish and Wildlife. The management of fish and wildlife resources is conducted in cooperation with the Texas Parks and Wildlife Department and U.S. Fish and Wildlife. The species of fish that the Texas Parks and Wildlife Department has stocked the lake with are: largemouth bass, smallmouth bass, channel and blue catfish, flathead catfish, crappie, white bass, hybrid striped bass and sunfish. There are a number of small wildlife management areas surrounding the lake, within which hunting dove, waterfowl, quail, rabbit, squirrel, turkey, feral hog and deer are permitted. Other species of wildlife found in the area include white-tailed deer, gray and red foxes, coyotes, fox squirrels, armadillos, owls, and more than a hundred bird species.

8-06. Water Supply. The GBRA, an agency of the State of Texas, is authorized to use 100 percent (366,400 acre-feet) of the conservation storage space between elevations 800.0 and 909.0 feet. GBRA has paid $8,949,861.84, in addition to their share of the annual O&M cost, for this water supply storage space.

8-07. Hydroelectric Power. The GBRA has entered into a contract (Contract No. DA-41-443 CIVENG-58-64) with the Federal Government for the conservation storage space between elevation 800.0 and 909.0 and to construct and operate facilities for the development of electric power, in accordance with the provisions of the Flood Control Act of 1954. GBRA began construction of a hydroelectric facility at Canyon Dam in August 1987 and it was first put into service in February 1989. GBRA Canyon Hydroelectric Division operates a six-megawatt hydroelectric plant located in Sattler, Texas, adjacent to the Canyon Dam discharge channel. The plant uses natural flows of the Guadalupe River as passed through Canyon Dam to provide electricity, through New Braunfels Utilities (NBU), to residents of the City of New Braunfels.

8-08. Navigation. Navigation is not a project purpose.

8-09. Drought Contingency Plans. The purpose of the Drought Contingency Plan is to provide a basic reference for water management decisions and responses to a water shortage in the Brazos River basin due to a drought. The Drought Contingency Plan provides a plan for implementing actions necessary for conservation of water supply depending on the severity of the drought and the reservoir level. This plan enables the Water Resources Branch to effectively coordinate with the public and other district elements during drought conditions. The latest Drought Contingency Plan for Canyon Lake is dated August 1991.

8-10. Emergency Action Plan. The EAP contains detailed instructions and procedures to be followed by USACE personnel at the Canyon Dam Project Office to properly handle any event at the project that could develop into an emergency condition. The most current edition of the EAP is located at the Geotechnical Office - Fort Worth District and is dated December 1985 and updated September 2017. Copies of this EAP are also available in the Fort Worth District Water Management Office and at the Canyon Lake Project Office.

8-11. Frequencies. Canyon Lake levels for the period of record, since deliberate impoundment began on 16 March 1964, are displayed on Plate 8-4.

a. Annual Peak Elevation Frequency. The annual peak lake levels for the period 1964 through 2016 were tabulated. The annual peak elevations were arranged in descending order and assigned median plotting positions. The elevation probability was derived from studies based on methods discussed in "Statistical Methods in Hydrology," by Leo R. Beard, dated January 1962. The annual peak elevation frequency curve is shown on Plate 8-5. Data from this analysis indicated that the 50-year and the 100-year flood frequency pool level to be 944.39 feet and 946.86 feet, respectively.

b. Lake Elevation Duration. The lake-elevation-duration curve shown on Plate 8-6 is based on the midnight lake elevations for the period 12 April 1968 to 20 October 2016. Canyon Lake reached the current top of the conservation pool for the first time on 12 April 1968. The lake-elevation-duration curve shows the percent of time that the lake level equals or exceeds a given elevation.

c. Control Points. Control points are located on Guadalupe River at Sattler, Guadalupe River at New Braunfels, Guadalupe River at Gonzales, Guadalupe River at Cuero, and Guadalupe River at Victoria. Rating curves for the key control points are shown on Plates 4-16 through 4-19, respectively.

8-12. Other Studies. The vision for the CWMS National Implementation Effort is to have all USACE watersheds fully modeled within CWMS. These models will be operated daily to provide decision support to local Water Managers and to have results automatically consolidated into standardized briefing tools within a CorpsMap for executive and public use. CorpsMap viewer supports visualization and analysis of the USACE infrastructure, and real-time display of atmospheric, coastal, critical infrastructure, and watershed data.

The CWMS Automated Information System was developed by the HEC under funding from the Water Management Community of Practice and has been implemented to varying degrees at USACE Water Management Offices. USACE offices apply CWMS data flow elements (data acquisition, verification, validation, transformation, storage, visualization, dissemination elements). For this effort, USACE Leadership, the Critical Infrastructure Protection and Resilience (CIPR) Program, and the Dam Safety Program have recognized the value of these watershed models to the Nation and have committed funding for watershed model development to support the needs of multiple programs.

CHAPTER IX - WATER CONTROL MANAGEMENT

9-01. Responsibilities and Organizations.

a. Corps of Engineers. Canyon Lake is owned by the USACE. As the owner of the project, the Corps of Engineers is responsible for the overall operation and maintenance of the lake. The Lake Manager, operating through the Canyon Lake Office, Canyon Lake, Texas, and the Engineering and Construction Division, is directly responsible for the Lake's maintenance and operation. Project reporting instructions are presented in Chapter V, and project operating instructions are presented in Chapter VII of this manual.

1. Responsibilities and Duties During Normal Operations. The Water Resources Branch, Engineering and Construction Division, Fort Worth District is charged with the following responsibilities and duties under the general supervision of the SWD Office in Dallas, Texas.

(a). Regulation of lakes and dissemination of data.

(b). Investigations and refinement of regulation procedures, including the following:

(1). Analysis of past floods.

(2). Reconnaissance to determine channel capacities.

(3). Improvement of forecasting techniques.

(4). Plan and coordinate the hydrometeorologic reporting network with the NWS and the USGS.

(c). Train personnel in flood control duties, including the following:

(1). Periodic visits to projects by the branch personnel to familiarize themselves with regulation facilities and become acquainted with the operating personnel.

(2). Instruct personnel of other branches in flood control procedures to supplement the Water Resources Branch during flood emergencies, when necessary.

(d). Prepare reports on lake regulation.

(1). Recurring reports.

(2). Water Control Manuals.

(3). Post Flood reports.

2. Responsibilities and Duties during Flood Emergencies. During flood emergency, the Water Resources Branch is responsible for the following:

(a). Evaluation of current meteorologic, hydrologic, and hydraulic data.

(b). Provide analysis of the storm and effects of the flooding to the District Engineer and other District personnel.

(c). When necessary, furnish personnel to assist lake personnel in flood regulations.

(d). Regulation of lakes in accordance with flood control schedules.

(e). Furnish information to higher authority, which will include:

(1). Initial reports to the SWD and Office of the Chief of Engineers by telephone or E-mail.

(2). Provide information for situation reports.

3. Assignment of Personnel. During non-flood periods, personnel of the Water Resources Branch issue instructions for the routine regulation of the lake. However, during flood periods, assistance from other personnel may be required to maintain effective regulation of the lakes. The area and magnitude of the flood will determine the number of people engaged in each particular activity. Plate 9-1 shows the organization during flood control regulation.

4. Provision for 24-Hour Alert. The NWS and Lake Manager have been provided with a list of names and telephone numbers of key personnel of the Engineering and Construction Division with instruction to provide warning if unusual conditions occur. Responsible personnel are on duty at the Fort Worth District Office 24 hours a day during flood emergencies and/or whenever project conditions warrant. Responsible personnel will be on duty or on call at the lake at all times.

5. Role of the Lake Manager. The Lake Manager will regulate the lake according to instructions issued by personnel of the Water Resources Branch. The instructions will follow the "Normal Regulations for Flood Control" and "Emergency Regulations for Flood Control" contained in Chapter VII and Exhibit E of this manual. If the Lake Manager loses communication with the District Office, he will immediately make every effort to reestablish communication while initiating emergency regulations for flood control. The Lake Manager will

make daily observations at the lake project's weather station and report those observations as directed in paragraph 5-07.

b. Other Federal Agencies. The NWS is officially responsible for issuing flood warnings to the public. The NWS provides weather and river forecast information, which is used to make real time operation decisions for Canyon Lake. The USGS develops and maintains stage versus discharge curves for each stream gage. The USGS also collects and maintains reservoir storage and water quality data for the USACE lakes in the Fort Worth District. The SWPA, U.S. Department of Energy, markets the power and energy generated by the Canyon hydropower plant.

9-02. Interagency Coordination. The USACE, NWS, and the USGS cooperate to accumulate rainfall and streamflow data used in forecasting river stages, stream flows and lake levels. The Fort Worth District's Supplement A to ER 500-1-1 gives a list of Federal Agencies with which the District will coordinate in emergencies. The GBRA coordinates with USACE regarding releases from the project through the hydropower turbines.

a. Local Press and Corps Bulletins. The USACE, through their Public Affairs Office, makes press releases to the news media of flood situations in the area of concern. The Water Resources Branch may supplement this information with observed conditions and technical advice to enable local interests to obtain optimum flood protection and to perform rescue and relief functions. USACE further assists in flood fighting, through the office of the Emergency Operations, who furnishes sandbags and other necessary equipment based on equipment on hand and need.

b. National Weather Service. The NWS and USACE exchange hydrometeorologic data and reports in obtaining and disseminating data. This exchange of data is discussed in great detail in Chapter VI of this manual.

c. United States Geological Survey. The USGS and USACE cooperate in a program for the operation and maintenance of stream gages throughout the Fort Worth District. During floods, the USGS and USACE coordinate field activities to maximize the number of stream discharge measurements.

d. Other Federal, State, or Local Agencies. The Fort Worth District exchanges information with State government officials, Texas Department of Public Safety (TxDPS) Highway Patrol Division, and others during flood emergencies. The Fort Worth District also coordinates with State agencies concerning fish and wildlife throughout normal operation.

Releases from Canyon Lake are coordinated with the releases from other reservoirs in the Guadalupe River basin system. These reservoirs are listed in Table 3-2.

9-03. Interagency Agreements. A water supply contract with the GBRA was approved on 24 October 1957 for 100 percent (366,400 ac-ft) of the conservation storage between elevations

800.0 and 909.0 feet. GBRA has paid $8,949,861.84, in addition to their share of the annual O&M cost, for this water supply storage space.

9-04. Commissions, River Authority, Compacts, and Committees. The TCEQ issues and regulates permits for water use in the State of Texas. The GBRA is informed of the lake regulations at Canyon Lake.

9-05. Non-Federal Hydropower. Hydropower is a non-Federal facilities at Canyon Lake. The GBRA has entered into a contract (Contract No. DA-41-443 CIVENG-58-64) with the Federal Government for the conservation storage space between elevation 800.0 and 909.0 and to construct and operate facilities for the development of electric power, in accordance with the provisions of the Flood Control Act of 1954. GBRA began construction of a hydroelectric facility at Canyon Dam in August 1987 and it was first put into service in February 1989. GBRA Canyon Hydroelectric Division operates a six-megawatt hydroelectric plant located in Sattler, Texas, adjacent to the Canyon Dam discharge channel. The plant uses natural flows of the Guadalupe River as passed through Canyon Dam to provide electricity, through New Braunfels Utilities (NBU), to residents of the City of New Braunfels.

9-06. Reports. Table 9-1 lists reports prepared by the Water Resources Branch. The tabulation also describes when each report is required and the regulation requiring the report.

TABLE 9-1

Tabulation of Reports

Name of Report	When Required	Regulation Requiring Report
Daily Report	Daily	—
Monthly Reservoir Report	Monthly	ER 1110-2-240
Flood Situation Reports	During Floods	ER 500-1-1
Post Flood Reports	Following a Flood Causing Major Damage	ER 500-1-1
Annual Reports	Annually	ER 1110-2-240

a. Daily Report. The daily report is prepared by the Water Resources Branch. It contains water control information on most of the major lakes in the Fort Worth District. An example of daily report is shown on Plate 9-2. Copies of the report are sent to all subscribing offices and agencies. The daily report is also posted on the Internet at the following URL address: http://www.swf-wc.usace.army.mil/.

b. Monthly Reports. The Water Resources Branch prepares monthly reservoir reports in accordance with ER 1110-2-240. The monthly report, shown on Plate 9-3, is a tabular record of lake operations. It is prepared for all lakes under the supervision or of direct interest to the Fort Worth District.

c. Flood Situation Reports. The Water Resources Branch supplies the Emergency Operations Center (EOC) in the Fort Worth District with information in accordance with ER 500-1-1. This report contains hydrometeorological conditions for the area, the name of the lake, pertinent lake data, lake elevation, predicted maximum elevation and anticipated data, inflow and outflow rates in cfs, percent of flood control storage utilized to date, and any other data relevant to the flood situation. The EOC then provides the information to the appropriate government officials and community organizations concerned or effected by the flooding.

d. Post Flood Reports. The post flood reports are prepared in accordance with ER 500-1-1, when a flood has resulted in major damage. The report describes flood emergency operations performed by the USACE. Included are available hydrologic information, damage estimates, and other engineering data considered essential for flood control and flood plain studies performed to review possible damage claims against the United States. The report is prepared using information compiled by the Water Resources Branch and when completed, includes a paragraph on the final damage costs from the flood event, including damages to USACE property, parks, and other structures.

e. Annual Report. The Water Resources Branch prepares an annual report for the SWD Reservoir Control Center. The report summarizes general river basin conditions and the activities and accomplishments of the Water Resources Branch during the preceding year.

EXHIBIT A

SUPPLEMENTARY PERTINENT DATA

CANYON DAM AND LAKE

EXHIBIT A

SUPPLEMENTARY PERTINENT DATA

CANYON DAM AND LAKE

TABLE OF CONTENTS

1. GENERAL INFORMATION

Item	Description
Other Name for Project	None
Location	Guadalupe River Basin, Texas Guadalupe River, at river mile 303.0
Type of Project	Dam and Lake
Objective of Regulations	Multipurpose lake project for Flood Control, Water Supply, Hydropower, Fish and Wildlife, and Recreation.
Project Owner	USACE
Operating Agency	USACE The working hours of operation for weekdays are 0800 to 1645; Working hours for weekends and holiday vary. During flood emergency conditions 24-hour per day duty is the general procedure.
Regulating Agency	USACE
Water Supply Contracts	The GBRA has contracted with USACE for drawing from the lake 100.0 percent (366,400 ac-ft) of the conservation storage space between elevation 800.0 and 909.0 feet. The GBRA will pay $8,949.861.84, in addition to their share of the annual O&M cost for this water supply storage space (Contract No. DA-41-443-CLVENG-58-64 dated 20 September 1957).
Project Cost	$18,835,641.44
Deliberate Impoundment Date	16 June 1964
Federal Power Marketing Administration	GBRA

2. LAKE INFORMATION

Feature	Elevation (Feet NGVD29)	Lake Area (Acres)	Storage (Acre-Feet)	Runoff (Inches)
Top of Dam	974.0	–	–	–
PMF Design Water Surface Elevation (1983 Study)	973.4	17,890	1,204,100	15.84
Maximum Design Water Surface Elevation (1959 Study)	969.1	17,120	1,129,300	14.86
Top of Flood Control Pool and Spillway Crest (1959 Study)	943.0	12,890	740,900	9.75
Top of Conservation Pool (2000 Survey)	909.0	8,309	378,852	4.98
Maximum Tailwater at Mouth of Spillway Channel (1959 Study)	813.9	—	—	—
Streambed (1959 Study)	750.0	0	0	—

Item	Description
Real Estate (Fee Title)	Upper guide contour of elevation 918.0 feet. Fee simple title includes 10,987 acres
Real Estate (Flowage Easement)	Upper guide contour of elevation 948.0 feet. Flowage easement includes 3620 acres
Range of Clearing	Below elevation 909.0 feet

2. LAKE INFORMATION (CONTINUED)

Item	Description
Lake length at top of conservation pool	15 miles from the dam to the most upstream shoreline
Shoreline length at top of conservation pool	93 miles
Safety aspects	A warning horn will sound for 10 seconds to alert those downstream at least 2 minutes before significant changes in discharge releases through the outlet works begin.
Datum	All elevations referred to in Exhibit A, unless noted otherwise, are in feet, National Geodetic Vertical Datum of 1929 (NGVD29). The datum conversion from NGVD29 to NAVD88 is: NGVD29 + 0.3 feet = NAVD88 for Canyon Dam and Lake.

3. HYDROLOGY

Item	Description
Drainage Area	1,425 square miles
Volume from One-Inch Runoff	76,000 ac-ft
Spillway Design Flood (1959 Study)	
Design water surface elev.	969.1 feet
Duration of Storm	60 hours
Average Infiltration Rate	0.15 inches/hour
Total Volume of Rainfall	24.50 inches
Total Volume of Runoff	16.81 inches
Peak Inflow	687,000 cfs
Storm Type	Spillway Design Storm
Probable Maximum Flood (1983 Study)	
Maximum Water Design Surface elev.	973.4 feet
Duration of Storm	96 hours
Average Infiltration Rate	0.15 inches/hour
Total Volume of Rainfall	34.56 inches
Total Volume of Runoff	23.00 inches
Volume into full pool	1,748,000 ac-ft
Peak Inflow to full pool	750,641 cfs
Peak Outflow (reservoir level 973.4 feet)	
Total	627,608 cfs
Storm Type	Probable Maximum Storm determined from HMR- 51 guidelines
Standard Project Flood (1983 Study)	
Maximum Design Water Surface elev.	954.64 feet
Duration of Storm	96 hours
Total Volume of Rainfall	17.73 inches
Peak Inflow	333,100 cfs
Total Volume	966,000 ac-ft
Climate	Moderate, with hot summers, and cool winters

3. HYDROLOGY (CONTINUED)

Item	Description
Average Precipitation (Gages listed in Table 4-3)	32.91 inches per year (1887-2017)
Average Evaporation from lake (Data listed in Table 4-4A)	54.09 inches per year (1964-2017)
Storm Type	Primarily local thunderstorms, frontal storms, and tropical cyclones
Flood Seasons	Primarily May through September, but floods can occur at any time of year
Low Flood Seasons	October through May
Minimum Monthly Inflow and Date of Occurrence	0 ac-ft (October 2014)
Minimum Annual Inflow and Date of Occurrence	9,729 ac-ft (in CY 1956)
Mean Annual Inflow	322,471 ac-ft (Feb 1915-Dec 1968 and Jun 1982-Sep 2017 records)
Maximum Annual Inflow and Date of Occurrence	1,291,512 ac-ft (CY 2002)
Maximum Monthly Inflow and Date of Occurrence	862,329 ac-ft (July 2002)
Maximum Average Daily Inflow and Date of Occurrence	77,714 cfs (3 July 2002)
Maximum Instantaneous Inflow and Date of Occurrence	109,600 cfs (22 June 1997)
Maximum Flood Volume and Date of Occurrence	902,985 ac-ft (July – Aug 2002)

3. HYDROLOGY (CONTINUED)

Item	Description
Names and Locations of Key Stream Flow Stations	Upstream North Fork Guadalupe River Near Hunt Guadalupe River at Hunt Johnson Creek near Ingram Guadalupe River above Bear Creek at Kerrville Guadalupe River at Kerrville Guadalupe River near Center Point Guadalupe River near Comfort (discontinued) Guadalupe River at Comfort Guadalupe River at FM 474 near Bergheim Guadalupe River near Spring Branch Rebecca Creek near Spring Branch Downstream Guadalupe River at Sattler Bear Creek at FM 2722 near Sattler Guadalupe River at Third Crossing near Sattler Blanco River at Crabapple Rd near Blanco Little Blanco River at FM 32 near Fischer Blanco River at Fischer Store Rd near Fischer Guadalupe River at New Braunfels Guadalupe River at Gonzales Guadalupe River at Cuero Guadalupe River at Victoria
Type of Hydrometeorologic Data Recorded at Damsite	Automatic water stage recorders to furnish continuous records of lake levels and river stage below the dam. Tile staff gages provide lake level and tailwater elevations. NWS station at the dam consists of: a rain gage, recording rain gage, Type A evaporation pan, anemometer and maximum-minimum thermometer.

3. HYDROLOGY (CONTINUED)

Item	Description
Precipitation Stations Used in Hydrologic Forecasting (NWS)	Bankersmith 2 SE - Recording gage Blanco 6.8 WSW - Recording gage Boerne - Recording gage Bulverde - Recording gage Camp Verde - Recording gage Canyon Dam - Recording gage Canyon Lake 4.1 E - Recording gage Center Point 2.4 ESE - Discontinued gage Comfort 2 - Recording gage Fair Oaks Ranch - Discontinued gage Fischers Store - Recording gage Garden Ridge 3.4 NW - Recording gage Harper 6.5 SW - Recording gage Hunt 10 W - Non-Recording gage Ingram 2 NW - Recording gage Kendalia - Recording gage Kerrville 3 NNE - Recording gage Kerrville 4.7 SSE - Recording gage New Braunfels AP - Recording gage New Braunfels WFO - Recording gage Pipe Creek 5.5 NNE - Recording gage Sisterdale 2 SE - Recording gage Spring Branch 2 SE - Discontinued gage Timberwood Park 7.7 ENE - Recording gage
Number of Sediment Ranges	42 (Periodic surveys)
Number of Degradation Ranges	9 (Periodic surveys)

4. EMBANKMENTS

Item	Description
Location	Guadalupe River Basin of the Guadalupe River at river mile 303.0
Purpose	Impoundment
Type	Rolled earth fill
Type of Fill	Earth fill
Slope Protection	18-inch Rock riprap upstream Grass cover downstream
Height	224.0 feet above streambed
Length	4,620 feet (including 210 feet dike)
Top Elevation	974.0 feet
Freeboard	5.6 feet needed for PMF, 0.6 available
Used for Roadway	Yes
Elevation of Streambed	750.0 feet
Closure of Embankment section began	21 July 1962
Deliberate Impoundment began	16 June 1964

5. SPILLWAY

Item	Description
Location	In saddle on right bank
Uncontrolled Spillway	
Crest Elevation	943.0 feet
Length	1,260 feet
Type	Broad crested
Capacity (1959 Study, Lake elev. 969.1 feet)	502,800 cfs
Total Routed Capacity (1959 Study, Lake elev. 969.1 feet)	508,000 cfs
Total Maximum Outflow (1983 PMF Study, Lake elev. 973.4 feet)	627,608 cfs
Type of Energy Dissipator	None

6. OUTLET FACILITIES

Item	Description
A. Control Gates	
Location	On outlet structure
Purpose	Regulation of outflow
Type	Slide gates
Number and Size of Gates	Two 5 feet 8 inches by 10 feet slide gates
Entrance Invert Elevation	775.0 feet
Conduit Diameter	9' - 4", steel lined

7. HYDROELECTRIC POWER FACILITIES

Item	Description
Location	Comal County
Purpose	Discharge for water supply and hydroelectric power generation
Type of Facility	Hydropower plant continuous runs to meet normal river flow
Maximum Output Capacity	Two 3 megawatts generators
Type of Unit	Francis-type vertical shaft
Power on Line Date	February 1989
Normal Plan for Generation	Demand for downstream water supply and flood releases will be used to generate power
Speed	514 RPM
Rated Head	144 feet
Rated Flow	One turbine, 300 cfs
Howell-Bunger Valve	0 to 500 cfs

8. CONTROL POINTS

Item	Description
A. Guadalupe River at Sattler, No. 08167800	
Location	River mile 301.2 of the Guadalupe River
Purpose of control	To indicate the total flow at the gage, including releases from upstream reservoirs and local flow
Channel description	The channel has straight and meandering segments. The overbanks are either wooded and/or agricultural. Regular dam releases from Canyon Lake dominate the flow through this reach.
Drainage area	1,436 square miles
Treatment of uncontrolled runoff	Contributes to target flow at gage
Target Flow Rate	5,000 cfs at Sattler Gage
Time of Water Travel From Canyon Lake	0.5 hours
Monitoring provisions	Recording river gage with DCP
Dikes or levees downstream	None

8. CONTROL POINTS (CONTINUED)

Item	Description
B. Guadalupe River at New Braunfels, No. 08169500	
Location	River mile 279.3 of the Guadalupe River
Purpose of control	To indicate the total flow at the gage, including releases from upstream reservoirs and local flow
Channel description	The channel has tortuous meanders and straight segments, often parallel with mapped faults near Belmont. Geologic changes constrain the river in this reach. The valley widens where the Carrizo Sand Formation outcrops, whereas the more resistant Recklaw formation confines the lower valley.
Drainage area	1,652 square miles
Treatment of uncontrolled runoff.	Contributes to target flow at gage
Target Flow Rate	12,000 cfs at New Braunfels Gage
Time of Water Travel From Canyon Lake	5 hours
Monitoring provisions	Recording river gage with DCP
Dikes or levees downstream	None

8. CONTROL POINTS (CONTINUED)

Item	Description
C. Guadalupe River at Cuero, No. 08175800	
Location	River mile 107.8 of the Guadalupe River
Purpose of control	To indicate the total flow at the gage, including releases from upstream reservoirs and local flow
Channel description	The reach is partially confined with variable valley widths. Sinuosity is lower than the surrounding up and downstream reaches. Carrizo Sand Formation dominates the wider valley sections, and narrow sections are confined by minor, less resistant, Eocene-aged formations. High channel-floodplain connectivity is characteristic of this zone as a result of several paleo-channels.
Drainage area	4,934 square miles
Treatment of uncontrolled runoff	Contributes to target flow at gage
Target Flow Rate	12,000 cfs at Guadalupe River at Cuero Gage
Time of Water Travel From Canyon Lake	81 hours
Monitoring provisions	Recording river gage with DCP
Dikes or levees downstream	None

8. CONTROL POINTS (CONTINUED)

Item	Description
D. Guadalupe River at Victoria, No. 08176500	
Location	River mile 50.7 of the Guadalupe River
Purpose of control	To indicate the total flow at the gage, including releases from upstream reservoirs and local flow
Channel description	The channel to Victoria is a tributary channel of the Gulf Intracoastal Waterway (GIWW). The channel extends in a northwesterly direction approximately 35 miles from the GIWW. From river mile 15 to 18, the channel borders the edge of Guadalupe River Floodplain separated by a large levee. From river mile 23 to its terminus, the channel extends along the east side of the Guadalupe River Floodplain. A large levee parallels this entire reach of the channel and separates it from the lake and riparian habitat east of the river.
Drainage area	5,198 square miles
Treatment of uncontrolled runoff	Contributes to target flow at gage
Target Flow Rate	12,000 cfs at Guadalupe River at Victoria Gage
Time of Water Travel From Canyon Lake	119 hours
Monitoring provisions	Recording river gage with DCP
Dikes or levees downstream	None

EXHIBIT B

CONTRACT BETWEEN THE GUADALUPE-BLANCO RIVER AUTHORITY

AND

THE UNITED STATES DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS

FOR

CANYON DAM AND LAKE, TEXAS

CONTRACT NO. DA-41-443-CIVENG-58-64

CONTRACT
CONSERVATION STORAGE
CANYON DAM AND RESERVOIR

This contract, entered into this 20th day of September, 1957, by and between the UNITED STATES OF AMERICA (hereinafter called the Government) represented by the Contracting Officer executing this contract, and the GUADALUPE-BLANCO RIVER AUTHORITY, an agency of the State of Texas in the City of New Braunfels, Texas (hereinafter called the Authority), WITNESSETH THAT:

WHEREAS, construction of the Canyon Dam and Reservoir on the Guadalupe River in Comal County, Texas (hereinafter called the Project) has been authorized by the River and Harbor Act approved 2 March 1945 (Public Law 14, 79th Congress, 1st Session) as modified by the Flood Control Act approved September 3, 1954 (Public Law 780, 83d Congress, 2d Session); and,

WHEREAS, the Authority is a duly authorized and created state governmental agency, body politic and corporate, a conservation and reclamation district, created as essential for the accomplishment of the purposes of Section 59 of Article 16 of the Constitution of the State of Texas, to the extent authorized in the creating act; and,

WHEREAS, the Flood Control Act of 1954, approved September 3, 1954 (Public Law 780, 83d Congress, 2d Session) states, in part: "The Canyon Dam and Reservoir shall be constructed with a gross reservoir capacity of approximately seven hundred and fifty thousand acre-feet (of which three hundred and eighty thousand acre-feet shall be for flood control and sedimentation) for purposes of flood control, conservation, stream flow regulation, and provision for sedimentation, and, if practicable, for purposes of development of electric power, *****.

"The Chief of Engineers, in consultation with the Federal Power Commission, shall at appropriate times allocate to local interests such of the costs of construction, operation, and maintenance of the Canyon Dam and Reservoir as may appropriately be allocated to water conservation, stream-flow regulation, and development of electric power. Such allocation shall be made in accordance with the separable costs-remaining benefits method, taking into account the net increase in regulated flow which is practical with the storage capacity which will be provided by the Canyon Dam and Reservoir for water conservation and stream-flow regulation. No allocation of costs with respect to any installation for development of electric power shall be made under this Section unless the Chief of Engineers determines that such installation will actually be constructed.

"The costs allocated to local interests under this section shall be not less than $1,400,000, and shall be paid by them to the Chief of Engineers as provided in this act. The portion of such costs determined by the Chief of Engineers to be allocable to operation and maintenance of Canyon Dam and

A TRUE COPY
Marion L White
MARION L. WHITE
Administrative Assistant

APPROVED BY AUTHORITY OF CHIEF OF ENGINEERS
E. Manning Seltzer
E. MANNING SELTZER
CHIEF, LEGAL DIVISION

Reservoir shall be deposited to the credit of the appropriation available for maintenance and operation of such dam and used by the Chief of Engineers fc such operation and maintenance; the $1,400,000 to be contributed during the construction period shall be deposited to the credit of the appropriation available for construction of the dam and used by the Chief of Engineers for that purpose; and the balance of such costs determined by the Chief of Engineers to be allocable to construction of Canyon Dam and Reservoir shall be deposited in the Treasury of the United States.

"Facilities for the development of electric power at Canyon Dam and Reservoir may be constructed and operated by the Corps of Engineers, or by local interests in accordance with the provisions of the Federal Power Act and in accordance with this Act, with all expenses of construction, operation, and maintenance of such facilities to be paid by local interests and with such power to be made available to such local interests.

"Of the contributions to be paid by local interests toward the cost of construction of Canyon Dam and Reservoir, $1,400,000 shall be paid in such manner, and at such time or times during the period of such construction, as the Chief of Engineers shall determine. The remainder of the contributions allocated to local interests, with interest thereon at the rate of 2½ per centum per annum, shall be paid as prescribed by the Chief of Engineers over a period not in excess of fifty years.

"The Chief of Engineers shall enter into an agreement with local interests providing for the payments heretofore described and for all other matters relating to the operation and maintenance of the Canyon Dam and Reservoir which require the cooperation of local interests. Such agreement may provide for utilization of the water impounded for water conservation and stream-flow regulation for development of electric power; except that the agreement shall provide that the utilization of water for power development shall not be allowed to conflict with the flood-control and sedimentation purpose of the Canyon Dam and Reservoir", and,

WHEREAS, the Authority, by resolution enacted August 27, 1951, expressed to the Corps of Engineers, U. S. Army, the Federal Power Commission, the State of Texas Board of Water Engineers, and other State and Federal agencies its desire and purpose to cooperate in the construction of the Canyon Dam and its facilities and itself to undertake the ownership, construction and operation of three auxiliary facilities proposed by the Authority, and the acquisition of the conservation storage in the Canyon Reservoir, in the interests of flood control, water conservation, hydroelectric power, river regulation and all other useful purposes; and,

WHEREAS, the Authority, by resolution enacted July 21, 1952, reviewed its policy with respect to the problems incident to the construction of Canyon Dam and Reservoir, and resolved that said policy be brought to the attention of the State Board of Water Engineers, the Corps of U. S. Army Engineers, the Federal Power Commission, the Texas Legislative Counsel, and all other agencies, bodies, and parties, public or private, which may construct, or be interested

in the construction of impounding reservoirs or any other facilities on the Guadalupe River or any of its tributaries, and stated it to be the purpose and desire of the Authority to acquire all conservation storage of waters within its district upon any of the tributaries of the Guadalupe River, for the uses and purposes provided by law and the enabling act under which the Authority was created; and,

WHEREAS, the Authority, by resolution enacted May 2, 1955, resolved that the sum of $1,400,000 of its funds be allocated to implement the carrying out of the purpose and intent of this resolution and said Public Law 780 insofar as that law relates to the Canyon Dam in Comal County, Texas; provided, however, that the allocation of said funds shall be effective only during the regular or any adjourned session of the 84th or the 85th Congress of the United States, and not thereafter, unless proper contractual relationship and agreements are entered into between the Authority and the Chief of U. S. Army Engineers, or any other of the Government's authorized agencies, within the period shown above; and that the Authority enter into negotiations for an equitable contract which will include provisions for the payment of such additional costs for construction and for operation and maintenance determined to be applicable to the Authority in accordance with the provisions of Public Law 780.

NOW, THEREFORE, the parties hereto do mutually agree as follows:

ARTICLE 1. WATER STORAGE SPACE.- The Authority shall have the right to utilize the storage space in the Project between elevations 800 feet above mean sea level and 909 feet above mean sea level as deemed necessary by the Authority to impound water in the Project and make such diversions as granted to the Authority by the Board of Water Engineers for the State of Texas, or its successors, to the extent that such storage space will provide. The Authority shall have the right to withdraw water from the aforesaid storage space, or to order releases therefrom to be made by the Government at any time so long as the elevation of the water within the Project is above elevation 800 feet above mean sea level, provided, that such releases when combined with local runoff below the dam will not cause flooding. It is understood and agreed that by mutual consent of both parties the Government shall have the right to draw down the conservation pool during periods of flood regulation. The Government shall not be responsible for diversion by others nor will it become a party to any controversies between users of the aforesaid storage space.

The design and location of any future Authority installations or facilities that the Authority may construct at the Project for the purpose of diversions or withdrawals shall be subject to the approval of the Contracting Officer, and the cost of such installations or facilities, or any modification thereof, shall be borne by the Authority.

Should the Authority desire that facilities be provided at the Project for the development of electric power, such facilities may be constructed and operated by the Authority or the Government in accordance with the provisions of the Flood Control Act of 1954 approved September 3, 1954 (Public Law 780, 83d Congress, 2d Session) and all expenses of construction, operation, and

in the construction of impounding reservoirs or any other facilities on the Guadalupe River or any of its tributaries, and stated it to be the purpose and desire of the Authority to acquire all conservation storage of waters within its district upon any of the tributaries of the Guadalupe River, for the uses and purposes provided by law and the enabling act under which the Authority was created; and,

WHEREAS, the Authority, by resolution enacted May 2, 1955, resolved that the sum of $1,400,000 of its funds be allocated to implement the carrying out of the purpose and intent of this resolution and said Public Law 780 insofar as that law relates to the Canyon Dam in Comal County, Texas; provided, however, that the allocation of said funds shall be effective only during the regular or any adjourned session of the 84th or the 85th Congress of the United States, and not thereafter, unless proper contractual relationship and agreements are entered into between the Authority and the Chief of U. S. Army Engineers, or any other of the Government's authorized agencies, within the period shown above; and that the Authority enter into negotiations for an equitable contract which will include provisions for the payment of such additional costs for construction and for operation and maintenance determined to be applicable to the Authority in accordance with the provisions of Public Law 780.

NOW, THEREFORE, the parties hereto do mutually agree as follows:

ARTICLE 1. WATER STORAGE SPACE.- The Authority shall have the right to utilize the storage space in the Project between elevations 800 feet above mean sea level and 909 feet above mean sea level as deemed necessary by the Authority to impound water in the Project and make such diversions as granted to the Authority by the Board of Water Engineers for the State of Texas, or its successors, to the extent that such storage space will provide. The Authority shall have the right to withdraw water from the aforesaid storage space, or to order releases therefrom to be made by the Government at any time so long as the elevation of the water within the Project is above elevation 800 feet above mean sea level, provided, that such releases when combined with local runoff below the dam will not cause flooding. It is understood and agreed that by mutual consent of both parties the Government shall have the right to draw down the conservation pool during periods of flood regulation. The Government shall not be responsible for diversion by others nor will it become a party to any controversies between users of the aforesaid storage space.

The design and location of any future Authority installations or facilities that the Authority may construct at the Project for the purpose of diversions or withdrawals shall be subject to the approval of the Contracting Officer, and the cost of such installations or facilities, or any modification thereof, shall be borne by the Authority.

Should the Authority desire that facilities be provided at the Project for the development of electric power, such facilities may be constructed and operated by the Authority or the Government in accordance with the provisions of the Flood Control Act of 1954 approved September 3, 1954 (Public Law 780, 83d Congress, 2d Session) and all expenses of construction, operation, and

maintenance of such facilities shall be paid by the Authority; provided, that plans for such facilities shall be subject to the approval of the Contracting Officer prior to commencement of construction of such facilities, and further provided that utilization of water for power development shall not be allowed to conflict with the flood-control and other Federal purposes of the Project.

The Government reserves the right to take such measures as may be necessary in the operation of the Project to preserve life and/or property.

ARTICLE 2. FEDERAL AND STATE LAWS.- The Authority shall utilize such storage space in a manner consistent with Federal and State laws.

ARTICLE 3. REGULATION OF THE USE OF WATER.- The regulation of the use of water in the aforesaid storage space shall be the responsibility of the Authority and shall not be considered a part of this contract.

ARTICLE 4. CONSIDERATION AND PAYMENT.

a. In consideration of the payments provided in this contract to be paid by the Authority to the Government, it is agreed that the Government will provide the Authority storage space in the Project as provided in Article 1. In consideration of the Government's providing the said storage space to the Authority, it is agreed that the Authority shall pay the following sums to the Government:

(1) $1,400,000 which shall be paid in such manner and at such time or times during the period of construction of the Project as the Contracting Officer shall determine.

(2) The remainder of the amount due on the conservation storage space, in addition to the sum of $1,400,000, as determined by the Separable Costs-Remaining Benefits method of cost allocation and as defined below:

(a) After the reservoir is filled to elevation 909 and the amount of leakage loss is established, a determination of the amount due on the basis of the Separable Costs-Remaining Benefits method of cost allocation shall be made, taking into account the net increase in regulated flow (dependable yield) to be realized from the Project, and such determination shall be based on the following schedule, it being expressly understood that the cost of design and construction of items listed in paragraph a.(3) of this Article shall not be considered a part of the project investment (construction cost plus interest during construction) as referred to below but shall be considered to be exclusive costs and paid for by the Authority in their entirety.

Net Yield as a Percent of Total Dependable Yield Without Leakage	Percent of Total Project Investment to be Paid by the Authority
100	42.9
95	41.5
90	40.1
85	38.7
80	37.1
75	35.5
70	33.7
65	31.9
60	29.9
55	27.9
50	25.7
45	23.5
40	20.9
35	18.3
30	15.4
25	12.4

In the event the net yield falls between the increments indicated above, the percentage of project investment shall be determined by straightline interpolation between the applicable increments. After the amount due has been determined, on the basis of the above schedule, the Authority will be credited with the sum of $1,400,000 contributed by the Authority during the course of construction as provided in paragraph a.(1) of this Article and with interest during construction on the said sum of $1,400,000. The degree of reservoir leakage shall be determined at the dam site on the basis of an analysis of inflow-outflow records with appropriate adjustments being made for evaporation losses in accordance with the procedure set forth in Exhibit A, entitled "Procedure for Determination of Reservoir Leakage", which is attached hereto and made a part hereof. The degree of reservoir leakage shall be as determined by the Contracting Officer, in accordance with the aforesaid procedure, and shall be determined during a period of not to exceed 2 years from the date that the water level in the project reaches elevation 909, top of conservation pool. In the event the water level in the Project fails to reach elevation 909, top of conservation pool, within 5 years from the date of initiation of deliberate impoundment, the degree of reservoir leakage shall be estimated from the best data available at the end of such 5-year period, regardless of the water level attained. In the event such estimate is made, the amount of leakage shall be determined within 2 years after the water level in the reservoir reaches elevation 909. If at any time after the original estimate or determination is made it should appear to the Contracting Officer, or the Authority, that the estimate or determination is inequitable, the Contracting Officer may re-examine the most recent estimate or determination for the purpose of making adjustments based upon conditions existing at that time. Any costs of such re-examination shall be deemed to be a part of the costs allocated to the Authority, and payment therefor shall be included in the annual installments provided in paragraph (b) below.

(b) After determination of the allocated cost of the said storage space on the basis of the Separable Costs-Remaining Benefits method of cost allocation, the Authority will pay to the Government the allocated cost,

which will include interest at the rate of two and one-half percent (2-1/2%) per annum on expenditures during the construction period of the Project, less the amounts to be credited to the Authority as provided in paragraph a.(2)(a) of this Article. In addition, the Authority shall pay accumulated interest compounded annually at the rate of two and one-half percent (2-1/2%) per annum on the difference between the allocated cost and the amounts credited the Authority for that period of time between completion of the Project and the date of beginning of annual payments as set forth below. Such costs shall be paid in fifty (50) equal consecutive yearly installments. Such installments shall include accrued interest at the rate of two and one-half percent (2-1/2%) per annum on the unpaid balance. The first installment shall be due and payable on the first day of January of the year following the date of the first determination or estimate, whichever first occurs, of the allocated cost on the basis of the Separable Costs-Remaining Benefits method of cost allocation. Annual installments thereafter will be due and payable on 1 January of each year until the amounts due as determined above shall have been paid.

(3) The entire cost of design and construction for low-flow outlet facilities to be provided for the purpose of making low-flow releases from the said storage space, and any other facilities that may be added at the request of the Authority. Said costs shall be in addition to the $1,400,000 set forth in paragraph a.(1) of this Article, and shall be paid in such manner and at such time or times during the period of construction of the Project as the Contracting Officer shall determine.

(4) The entire cost of the stream and precipitation gaging facilities that are established by the Government for the specific purpose of determining leakage from the reservoir, as set forth in Exhibit A, including the cost of analysis of all data made for the purpose of determining the extent of reservoir leakage. Said costs of installation shall be paid in such manner and at such time or times during the period of construction of the Project as the Contracting Officer shall determine.

(5) The allocated cost of major repairs, additions or betterments as determined by the applicable percentage of total project investment to be paid by the Authority obtained from the schedule set forth in paragraph a.(2)(a) of this Article. Said allocated cost shall be due and payable when incurred.

b. (1) In the event the determination of the allocated cost of the said storage space on the basis of the Separable Costs-Remaining Benefits method is made before final project costs are known, the installments shall be increased or decreased to reflect the actual allocated cost as determined by the Contracting Officer at the time that final project costs become known. In the event the annual installments are increased or decreased, as provided in this paragraph, an adjustment as determined by the Contracting Officer, of payments made prior to the determination of the final project cost shall be made within the first three payments due after such costs are determined.

(2) In the event re-examinations of reservoir leakage are made as provided in paragraph a.(2)(a) of this Article, adjustment of payments in the

annual installments shall be made so as to reflect the increase or decrease in the reservoir leakage in conformance with the schedule set forth in paragraph a.(2)(a) of this Article. If the annual payments have been based upon estimated leakage, the equitable adjustment to be made on previous payments shall include all payments since the last estimate; otherwise such adjustment shall relate back to payments made during the last half of the period between determinations. If the annual installments are increased or decreased as provided herein, an adjustment, as determined by the Contracting Officer, of payments made prior to such re-examination shall be by credit or debit on future payments, and the Government shall not be obligated to make a cash refund if the credit to be extended to the Authority exceeds the unpaid balance.

(3) It is understood and agreed that the amount of reimbursement for use of the conservation storage shall not be dependent on its value for hydroelectric power purposes unless the hydroelectric power generation facilities are constructed. In the event the hydroelectric power facilities are constructed, a redetermination of the project cost allocations on the basis of the Separable Costs-Remaining Benefits method of cost allocation shall be made at the time it is determined such power facilities will actually be constructed and the annual payments due under this contract shall be adjusted accordingly.

c. The Authority shall pay the following sums of operation and maintenance:

(1) 34.8 percent of the annual actual experienced cost of operation and maintenance of the Project (exclusive of the operation and maintenance cost for land management and public utilization). The first payment will be due and payable on the date of deliberate impoundment of water in the Project; will be for the period ending the 31st of December following the initiation of deliberate impoundment of water in the Project; and will be prorated on the basis of the estimated annual operation and maintenance charge. The present estimate of the Authority's annual payment of operation and maintenance costs is $19,500.00. Annual payments will be due and payable in advance on the 1st of January of each year thereafter and will be equal to 34.8 percent of the actual experienced cost of operation and maintenance for the preceding Government fiscal year. The second payment shall be increased or decreased in an amount to reflect the difference between the first payment and 34.8 percent of the annual actual experienced cost of operation and maintenance for the first year or portion thereof as set forth above.

In the event reservoir leakage is re-examined as hereinbefore provided, the above percentage of operation and maintenance costs theretofore paid and thereafter to be paid by the Authority shall be adjusted in accordance with the following schedule, and in the same manner as provided in paragraph b(2).

Net Yield as a Percent of Total Dependable Yield Without Leakage	Percent of Project Operation and Maintenance to be Paid by the Authority
100	34.8
95	34.3
90	33.8

85	33.2
80	32.7
75	32.0
70	31.2
65	30.5
60	29.8
55	28.9
50	28.0
45	27.1
40	26.2
35	25.2
30	24.1
25	22.9

In the event the degree of reservoir leakage falls between the increments indicated above, the percentage of project operation and maintenance shall be determined by straight-line interpolation between the applicable increments. Any adjustment of the foregoing 34.8 percent of the annual actual experienced cost of operation and maintenance of the Project shall be effective on the first day of January following the date of determination of the allocated cost on the basis of the Separable Costs-Remaining Benefits method of cost allocation as provided in paragraph a(2) of this Article.

Records of cost of operation and maintenance of the Project shall be available for inspection and examination by the Authority.

The extent of operation and maintenance of the Project shall be determi d by the Contracting Officer and all records and accounting shall be maintained by the Contracting Officer. In the event the Authority should require additional operation and maintenance for the conservation storage over and above that determined by the Contracting Officer, or as the result of the addition of facilities requested by the Authority, the Authority shall bear the entire cost of such additional expense.

(2) The actual experienced operation and maintenance cost, as determined by the Contracting Officer, of the stream and precipitation gaging facilities that are established by the Government for the specific purpose of determining leakage from the reservoir, as set forth in Exhibit A, including the cost of analysis of all data for the purpose of determining the extent of reservoir leakage. Such actual experienced operation and maintenance costs including the cost of analysis of all data, for the purpose of determining the extent of reservoir leakage, shall be paid on the 1st day of January of each year following the close of the preceding Government fiscal year and shall be for the costs incurred during said Government fiscal year.

d. In the event of default in the payment of the costs contained in this Article, the Authority shall pay interest on such overdue payments at the rate of two and one-half percent (2-1/2%) per annum thereon; compounded annually, and such interest shall be charged from the date such payments are due until paid.

ARTICLE 5. PERIOD OF CONTRACT.

a. This contract shall become effective as of the date of approval by the Chief of Engineers, or his duly authorized representative, and shall continue in full force and effect thereafter during the useful life of the

Project. The Authority shall have the full use and benefit of the said storage space during such period.

b. It is the understanding of the parties hereto that the Government does not hereby obligate itself to continue operation of the Project for a period in excess of 50 years, or beyond the useful life of the Project for flood control and other purposes specified in the authorizing act, whichever first occurs. It is the expectation of the parties, however, that the Project may have a useful life for such purposes in excess of 50 years; and it is understood and agreed that the Government may continue operation of the Project for any additional term beyond such time, subject to termination at the Government's election. In any event, should the Government permanently abandon or discontinue the Project as no longer useful for flood control and other purposes specified in the authorizing act, or for any other cause, as between the Government and the Authority, the right of the Authority is hereby recognized thereafter to utilize the storage space to the full extent provided for in this contract for the purposes for which the Authority is contributing its money without further obligation on the part of the Government.

ARTICLE 6. DEFAULT.- In the event that the Authority refuses or fails to comply with any and/or all of the terms of this contract, including the foregoing provisions with respect to payments, the Government reserves the right to terminate this contract.

ARTICLE 7. OPERATION AND MAINTENANCE.- The Government shall operate and maintain the Project owned by the Government. The Authority shall have the right to make withdrawals of water for its purposes as needed in accordance with Article 1. The Authority shall be responsible for operation and maintenance of all features and appurtenances which may be provided and owned by the Authority.

ARTICLE 8. RIGHTS-OF-WAY.- The grant of an easement or right-of-way over, across, in and upon Government-owned lands, under the control of the Secretary of the Army, required for transmission of the water from the point, or points, of withdrawal, or for any other purposes as provided by Public Law 780, 83d Congress, 2d Session, shall be by separate instrument without additional cost to the Authority, under the authority and in accordance with the provisions of the Act of Congress, approved May 17, 1926, Ch. 313, Sec. 1h2, 44 Stat. 562 (10 U. S. C. 1351 and 1352) and Sec. 7 of the Flood Control Act of 1946 (60 Stat. 643; 43 U. S. C. 931b).

ARTICLE 9. RELEASE OF CLAIMS.- The Authority shall hold and save the Government including its officers, agents, and employees, harmless from liability of any nature or kind for or on account of any claim for damages which may be filed or asserted as a result of withdrawal or release of water from the Project, made or ordered by the Authority, or as a result of the construction, operation, or maintenance of the features or appurtenances owned and operated by the Authority.

ARTICLE 10. TRANSFER OR ASSIGNMENT.- The Authority shall not transfer or assign this contract nor suballet said conservation storage or any part thereof, nor grant any interest, privilege, or license whatsoever in connection with this contract, without permission in writing from the Chief of Engineers; provided that this restriction shall not be construed to apply to any water which may be obtained from the conservation storage by the Authority and furnished to any third party or parties nor any method or allocation thereof.

ARTICLE 11. OFFICIALS NOT TO BENEFIT.- No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 12. COVENANT AGAINST CONTINGENT FEES.- The Authority warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Authority for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to add to the contract price or consideration the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE 13. DISPUTES.- Except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer, who shall reduce his decision to writing and mail or otherwise furnish a copy thereof to the Authority. Within 30 days from the date of receipt of such copy, the Authority may appeal by mailing or otherwise furnishing to the Contracting Officer a written appeal addressed to the Secretary, and the decision of the Secretary or his duly authorized representative for the hearing of such appeals shall, unless determined by a court of competent jurisdiction to have been fraudulent or capricious or arbitrary or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence, be final and conclusive; provided that, if no such appeal is taken the decision of the Contracting Officer shall be final and conclusive. In connection with any appeal proceeding under this clause, the Authority shall be afforded an opportunity to be heard and to offer evidence in support of its appeal. Pending final decision of a dispute hereunder, the Authority shall proceed diligently with the performance of the contract and in accordance with the Contracting Officer's decision.

ARTICLE 14. PUBLIC LAW 780.- It is understood and agreed by the parties hereto, that in case any provision of the contract conflicts with Public Law 780, 83d Congress, 2d Session, the provisions of said public law shall govern, but all other provisions of the contract shall remain in full force and effect.

ARTICLE 15. APPROVAL OF CONTRACT.- This contract shall be subject to the written approval of the Chief of Engineers or his duly authorized representative and shall not be binding until so approved.

ARTICLE 16. DEFINITIONS.- (a) The term "Secretary" means the Secretary of the Army; the terms "Secretary of the Army" or "Head of the Department" as used herein shall have one and the same meaning; and the term "his duly authorized representative" means the Chief of Engineers, Department of the Army, or an individual or board designated by him.

(b) The term "Contracting Officer" as used herein shall include his duly appointed successor or his authorized representative.

ARTICLE 17. ALTERATIONS.- The following alterations have been made in the provisions of this contract.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
(Contracting Officer)

GUADALUPE-BLANCO RIVER AUTHORITY

By _____
(General Manager)

P.O. Box 4 San Marcos Tex
(Post Office Address)

ATTEST:

_____
Secretary, Guadalupe-Blanco
River Authority

APPROVED AS TO FORM:

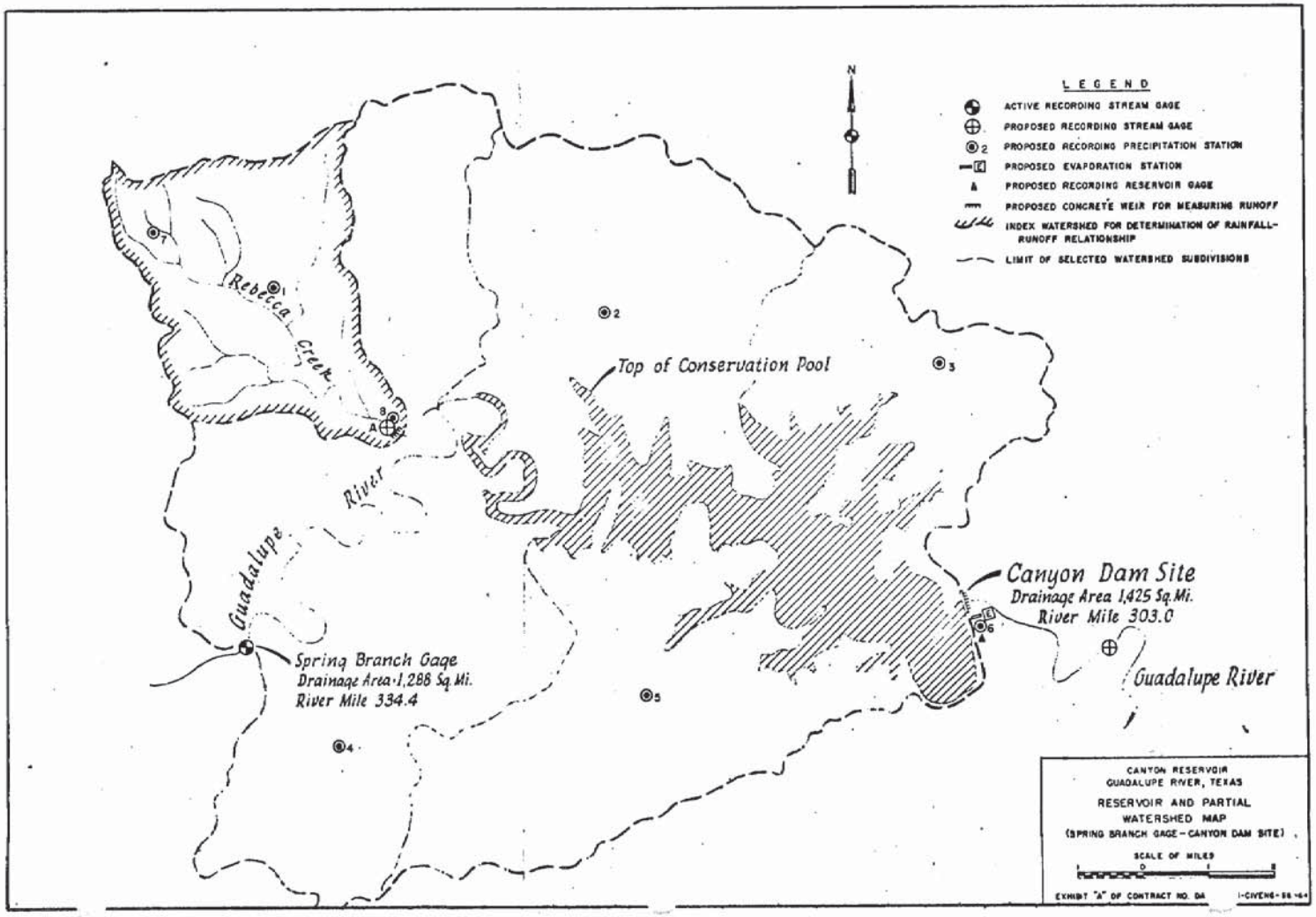
_____
Attorney, Guadalupe-Blanco
River Authority

I, H. C. McHenry, certify that I am the Secretary of the Guadalupe-Blanco River Authority, that E. M. Cape who signed this contract on behalf of the Authority, was then General Manager of the Guadalupe-Blanco River Authority; that said contract was duly signed for and on behalf of said Guadalupe-Blanco River Authority by authority of its governing body and is within the scope of its legal powers.

IN WITNESS WHEREOF, I have hereunto affixed my hand and the seal of said Guadalupe-Blanco River Authority, this 2nd day of September, 1957.

(CORPORATE SEAL)

H. C. McHenry
(Secretary)


N
LEGEND
ACTIVE RECORDING STREAM GAGE
PROPOSED RECORDING STREAM GAGE
PROPOSED RECORDING PRECIPITATION STATION
PROPOSED EVAPORATION STATION
PROPOSED RECORDING RESERVOIR GAGE
PROPOSED CONCRETE WEIR FOR MEASURING RUNOFF
INDEX WATERSHED FOR DETERMINATION OF RAINFALL-RUNOFF RELATIONSHIP
LIMIT OF SELECTED WATERSHED SUBDIVISIONS
Rebecca Creek
Guadalupe River
Top of Conservation Pool
Canyon Dam Site
Drainage Area 1,425 Sq.Mi.
River Mile 303.0
Guadalupe River
Spring Branch Gage
Drainage Area 1,288 Sq.Mi.
River Mile 334.4
CANYON RESERVOIR
GUADALUPE RIVER, TEXAS
RESERVOIR AND PARTIAL WATERSHED MAP
(SPRING BRANCH GAGE - CANYON DAM SITE)
SCALE OF MILES
EXHIBIT "A" OF CONTRACT NO. DA I-CIVENG-58-164

Contract No. DA-41-443-CIVENG-58-64

EXHIBIT "A"

PROCEDURE FOR DETERMINATION OF RESERVOIR LEAKAGE

Reservoir leakage shall be determined by means of an inflow-outflow comparison taking into account net evaporation losses.

Total inflow into Canyon Reservoir will be determined by use of the following: (1) The U. S. Geological Survey discharge records at the Spring Branch gage on the Guadalupe River near the headwaters of Canyon Reservoir which controls a drainage area of 1,288 square miles; (2) an index watershed with adequate gaging facilities on the 137 square miles of drainage area between the Spring Branch gage and the Canyon Dam; (3) precipitation stations on selected subdivisions of the 137-square-mile drainage area; (4) the precipitation and evaporation stations at the dam; and (5) rating curves for the outlet works.

On the 137-square-mile area between the Spring Branch gage on the Guadalupe River at river mile 334.4 and the Canyon Dam on the Guadalupe River at river mile 303.0, an index watershed will be established on Rebecca Creek by installing three recording precipitation gages and a recording stream gage, and constructing a weir across Rebecca Creek which can be calibrated to determine the runoff. By use of the record from the recording stream gage on Rebecca Creek and a rating curve to be developed by calibration of the weir, the volume of runoff from the index watershed will be determined. A relationship will be established for the index station between the observed runoff volume and the average rainfall over the basin as determined by Theissen's method. The runoff from the remaining watershed subdivisions is to be estimated by applying the average rainfall for the selected subdivisions as determined by the Theissen method, for the newly established rainfall gages, to the rainfall runoff relation determined for the index station. Runoff from the reservoir area will be considered equal to the rate of rainfall resulting from an average of stations 2, 3, 5, and 6, as shown on the attached map. Estimates of runoff by use of the rainfall-runoff relationship for subdivisions of the watershed adjacent to the reservoir and from the reservoir area will be dependent upon the reservoir contents; therefore, reservoir elevation-drainage area relationships will be developed for the subdivisions to reflect actual reservoir area.

A summation of the following estimates will be considered as the total inflow into the Canyon Reservoir:

1. Runoff at the Spring Branch gage as determined by the U. S. Geological Survey for the 1,288 square miles of drainage area above the gaging station.

2. By use of the rainfall-runoff relationship developed for the index watershed, estimates of runoff will be made for the selected subdivisions of the watershed by use of average rainfall determined by Theissen's method.

3. Runoff from the reservoir area will be considered equal to the average of the rainfalls recorded at stations 2, 3, 5, and 6.

4. Reservoir outflow as indicated by the rating curves for the outlet works.

The total estimated inflow into the reservoir as determined from the summation of foregoing 1, 2, and 3 shall in no event be less than the volume of inflow as determined by the amount of water actually stored during the period, plus evaporation and plus the outflow from the reservoir.

It is understood and agreed between the parties hereto that the Authority will pay the entire cost of installation, operation, and maintenance of the stream and precipitation gaging facilities that are established for the specific purpose of determining leakage; said facilities being as follows:

1. Seven recording precipitation stations shown on the attached map as numbers 1, 2, 3, 4, 5, 7, and 8.

2. One recording stream-gaging station indicated on the attached map as "A".

3. Concrete weir shown on the attached map.

During the 5-year period following deliberate impoundment, a reservoir stage-leakage relationship will be developed by use of the hydrologic facilities installed in connection with the Canyon project. The Authority shall not be responsible without its consent for payment of the maintenance and operation of the foregoing facilities established for the purpose of determining leakage or for the cost of analyzing the data therefrom beyond this five-year period unless the Contracting Officer exercises his authority to re-examine the most recent estimate or redetermination for the purpose of making adjustments as provided in Article 4a(2)(a) of the contract, in which event the Authority shall pay the entire cost of re-establishing and maintaining the foregoing facilities, including the cost of analyzing the data therefrom.

The net increase in regulated flow (dependable yield) will be determined by use of the current estimate of natural inflow into the Canyon Reservoir as estimated by the Corps of Engineers for the most severe dry period, which began July 1947 and is still in progress (Computation No. 1). After the reservoir stage-leakage relationship has been established, the net increase in regulated flow will be recomputed introducing the leakage factor as another loss in the conservation storage routing (Computation No. 2). The net yield, which shall be taken as the basis for payment under this contract, shall be the percentage obtained by dividing the result of Computation No. 2 by the result of Computation No. 1 and shall be the percentage used to enter the schedule shown in Article 4a(2)(a) of the contract.

EXHIBIT C

STANDING INSTRUCTIONS TO LAKE MANAGER

CANYON DAM AND LAKE

EXHIBIT C

STANDING INSTRUCTIONS TO LAKE MANAGER

CANYON DAM AND LAKE

TABLE OF CONTENTS

STANDING INSTRUCTIONS TO LAKE MANAGER
CANYON DAM AND LAKE

I. GENERAL

1. Instructions. Detailed instructions to the project personnel at Canyon Dam and Lake are presented below.

a. Regulation. The Fort Worth District Water Management Office will normally issue instructions for the storage and discharge of water. In the event communications with the Fort Worth District Water Management Office are disrupted, the Lake Manager will direct regulation in accordance with the Emergency Regulation guidance provided in Section II of this exhibit.

b. Data Reporting. The Water Management Office is staffed from 0700 hours to 1600 hours daily, and 0700 hours to 1100 hours on weekends and holidays (except Christmas Day). During these hours reservoir regulators may be reached via telephone at 817-886-1551, via e-mail at ceswf-od-l@usace.army.mil, or (as a backup) via FAX at 817-886-6472. Outside of these hours the Water Management Office Duty Regulator may be reached via mobile telephone at 817-791-0973, or, as a backup, via the above e-mail address. The Canyon Powerhouse Duty Operator may be reached 24-hours per day via telephone at 409-384-5292.

(1). Daily Report. Each day lake and hydrometeorological data will be submitted to the Fort Worth District Water Management Office between 0800 and 0830 hours. The primary means of submission will be the Internet at http://www.swf-wc.usace.army.mil. The secondary means of submission will be via telephone, and FAX may be used as a backup. The following data should be included in the daily report.

(a). Weather. For the 24-hour period preceding 0800 hours each day, report cumulative precipitation and evaporation values, in inches, and the maximum and minimum experienced temperature readings.

(b). Gate Settings. Gate number of each open gate, with the height of opening in feet as of 0800 hours on the date of report.

(c). Spillway Discharge. In the event discharge occurs over the tainter gate spillway, report the respective dates and times discharge begins and ends.

(d). Hydropower. Hydropower release information will be included in the daily report.

(2). Reporting Severe Weather. During normal project duty hours, including weekends as applicable, severe weather will be reported as it develops, to include information and data that may be requested by the Water Management Office. Severe weather conditions outside of

normal project duty hours will be reported when and as requested by the Water Management Office.

(3). Reporting Gate Operations. Upon completion of any change in gate settings, details of the gate operations will be reported to the Water Management Office via telephone, e-mail, or FAX (as backup), and to the Canyon Powerhouse Duty Operator via telephone or FAX. The report shall include the gate settings prior to change, the date and time of beginning of change, the date and time of completion of change, and the gate settings upon completion of change.

c. Reporting Unusual Events. Events or conditions not normally encountered in the routine operation of the dam and lake that might endanger the integrity of the dam or necessitate temporary or permanent revision of the operating procedures shall be promptly reported to the Operations Division and the Water Management Office. Settlement, movement, or cracking of the earth embankment or abutments, unusual change in seepage rates or development of new seepage areas, landslides, rockslides, displacement of riprap, or indication of an impending movement should be reported to the Dam Safety Program Manager in the Geotechnical Office. Any changes to the outlet works or spillway including structural settlement or movement, cracking, or vibrations; mechanical malfunction or failure shall be reported immediately to the Water Management Office and the Dam Safety Coordinator. Reference the Canyon Dam **Flood Emergency Plan** should an event occur indicating any degree of jeopardy to the safety of the dam or to the safety of the public. The stilling basin and protected/armored downstream areas must be visually monitored closely during all high releases. Outside of normal duty hours one of the persons listed on the Fort Worth District Notification List for Canyon Lake will be notified, and the Duty Regulator of the Water Management Office will be notified at mobile phone 817-791-0973.

d. Warnings. It is the responsibility of the Lake Manager to maintain a list in current status of residents, and/or property, which would be endangered or inconvenienced by large and/or prolonged releases, and to give adequate warning of such impending releases. Notification will be made by whatever means are available, in accordance with current Fort Worth District emergency notifications protocol. In every case, before an increase in release rate is made, a warning horn shall be sounded and the area immediately below the stilling basin visually checked for person(s) in a dangerous area.

e. Gate Changes. Gate changes will normally be directed by the Water Management Office. In the event communications with the Fort Worth District Office are disrupted, the Lake Manager will direct gate changes. During flood periods, gate changes may be required as often as every half hour. Only under unusual circumstances will gate changes be required more frequently than every half hour. Examples of such unusual circumstances include unexpectedly high rates of change in inflow to the reservoir, or a required response to a dam safety issue. The gates will be operated in a manner prescribed by the manufacturer. A complete log of all gate operations will be kept for each gate.

II. REGULATION PROCEDURES

1. Normal Regulation. Normally, instructions for storage and release of water for conservation and flood control purposes will be issued by the Water Management Office in accordance with the plan of regulation prescribed in Chapter 7 of this water control manual.

2. Emergency Regulation. In the event of disruption of communications with the Fort Worth District Water Management Office, the Lake Manager will, on his own initiative, direct operation of the reservoir in accordance with the rules outlined below:

a. Continue releases as last directed by the Fort Worth District Water Management Office.

b. Take immediate steps to re-establish communication with the Fort Worth District Water Management Office.

c. Until communications are restored, regulate the reservoir in accordance with Chapter 7, Plate 7-2, and Emergency Regulation Plan for Flood Control for Canyon Dam and Lake.

3. Temporary Deviations. During the course of normal or emergency regulation of the reservoir, the Lake Manager may temporarily deviate from the current release rates in the event an immediate short-term departure is deemed necessary to protect the safety of the dam, or to avoid serious hazards to life. As soon as practicable, the Fort Worth District Water Management Office will be informed via telephone, e-mail, or FAX, as to the nature of the emergency and the subsequent response. If the deviation is conducted in the interest of dam safety, the Dam Safety Coordinator will also be notified as soon as practicable. Such actions shall be confirmed in writing, as soon as practicable, to the Fort Worth District Water Management Office and the Southwestern Division Water Management Office, and shall include justification for the action.

EXHIBIT D

URS-FNI-HZ TEAM

QUALITY MANAGEMENT SYSTEM (QMS) FORMS

EXHIBIT D

URS-FNI-HZ TEAM

QUALITY MANAGEMENT SYSTEM (QMS) FORMS

TABLE OF CONTENTS

URS | Quality - *It's Good Business*

QMS Form 3-4 (MM)
Rev. 2013 QMS
Date: 28 Feb 2013

IE QMS - Americas

Detail Check

Project Name	Update Water Control Manual for Canyon Dam and Lake	**Client**	USACE Fort Worth District
Project Location	Comal County, Texas	**PM**	Jinwei Qiu, PE
Project Number	60440846	**PIC**	

Identifying Information

(This section is to be completed by the Project Manager or the PM's Designee.)

Assigned Checker: Janis Murphy, PE — Comments Required by: January 12, 2018

Work Product Originator: Jinwei Qiu, Rifat Alam and Dawit Zeweldi

Work Product to be Checked: Canyon Dam and Lake Water Control Manual Chapters 1 to 3

☒ This Detail Check is a check for correctness, completeness and technical accuracy.

☐ This Detail Check is only a technical edit for format, spelling, grammar, pagination and readability.

Specific Instructions: Enter specific instructions for the work product.

Submitted by: Jinwei Qiu — 01/09/2018

Project Manager Signature — Date

Comments

(This Section is to be completed by the Checker.)

Select:

A. ☐ Checker has no comments.

or

B. ☒ Comments have been provided on:

- ☒ Marked directly on work product
- ☐ Comment and Disposition Form 3-5
- ☐ Other; Specify: Click here to enter text.

Janis C. Murphy — 1/10/18

Checker Signature — Date

Verification

(This section is to be completed by the Checker after verification of comment incorporation, if box B is checked off above.)

Select:

C. ☐ Verification of comment incorporation has been performed by Checker. There are no outstanding issues.

or

D. ☒ Verification of comment incorporation has been performed by Checker. Unresolved issues have been submitted to the Project Manager or Designee for final resolution.

and

E. ☒ Checker asserts that the work product review is complete.

Janis C. Murphy — 6/4/18

Checker Signature — Date

APPROVAL and DISTRIBUTION

☒ Detail Check is complete.

Jinwei Qiu — Click here to enter a date. 06/05/2018

Project Manager or Designee Signature — Date

Distribution:

Project Central File – Quality File Folder

Other – Specify: Enter names here.

URS	Quality - *It's* **Good** *Business*	QMS Form 3-6 (MM)
		Rev. 2013 QMS Date: 28 Feb 2013

IE QMS - Americas	**Independent Technical Review**

Project Name	Update Water Control Manual for Canyon Dam and Lake	**Client**	USACE Fort Worth District
Project Location	Comal County, Texas	**PM**	Jinwei Qiu, PE
Project Number	60440846	**PIC**	Enter PIC Name

Identifying Information

(This section is to be completed by the Project Manager or the PM's Designee.)

Assigned Reviewer: Anand Prakash, PE Comments Required by: January 12, 2018

Work Product Originator: Jinwei Qiu, Rifat Alam and Dawit Zeweldi

Work Product to be Reviewed: Canyon Dam and Lake Water Control Manual Chapters 1 to 3

Review Scope: Review for correctness, completeness and technical accuracy

Specific Instructions: Enter specific instructions for the work product

Submitted by: Jinwei Qiu — **Project Manager Signature** 01/09/2018 — **Date**

Comments

(This Section is to be completed by the Reviewer.)

Select:

A. ☐ Reviewer has no comments.

or

B. ☒ Comments have been provided on:

- ☒ Marked directly on work product
- ☐ *Comment and Disposition Form 3-5*
- ☐ Other; Specify: Click to enter text.

Anand Prakash — **Reviewer Signature** 4/06/2018 — **Date**

Verification

(This section is to be completed by the Reviewer after verification of comment incorporation, if box B is checked off above.)

Select:

C. ☒ Verification of comment incorporation has been performed by Reviewer. There are no outstanding issues.

or

D. ☐ Verification of comment incorporation has been performed by Reviewer. Unresolved issues have been submitted to the Project Manager or Designee for resolution.

and

E. ☒ *Reviewer asserts that the work product ITR is complete.*

Anand Prakash — **Reviewer Signature** 5/31/2018 — **Date**

APPROVAL and DISTRIBUTION

☒ ITR is complete.

Jinwei Qiu — **Project Manager or Designee Signature** Click here to enter a date. 06/05/2018 — **Date**

Distribution:

Project Central File – Quality File Folder

Other – Specify: Enter names here.

URS Quality - It's Good Business	QMS Form 3-4 (MM)
	Rev. 2013 QMS Date: 28 Feb 2013

IE QMS - Americas	Detail Check

Project Name	Update Water Control Manual for Canyon Dam and Lake	**Client**	USACE Fort Worth District
Project Location	Comal County, Texas	**PM**	Jinwei Qiu, PE
Project Number	60440846	**PIC**	

Identifying Information

(This section is to be completed by the Project Manager or the PM's Designee.)

Assigned Checker: Janis Murphy, PE Comments Required by: April 6, 2018

Work Product Originator: Jinwei Qiu, Rifat Alam and Dawit Zeweldi

Work Product to be Checked: Canyon Dam and Lake Water Control Manual Chapters 4 to 9

☒ This Detail Check is a check for correctness, completeness and technical accuracy.

☐ This Detail Check is only a technical edit for format, spelling, grammar, pagination and readability.

Specific Instructions: Enter specific instructions for the work product

Submitted by: Jinwei Qiu — Project Manager Signature — 04/02/2018 — Date

Comments

(This Section is to be completed by the Checker.)

Select:

A. ☐ Checker has no comments.

or

B. ☒ Comments have been provided on:

- ☒ Marked directly on work product
- ☐ Comment and Disposition Form 3-5
- ☐ Other; Specify: Click here to enter text

Janis C. Murphy — Checker Signature — 4/5/18 — Date

Verification

(This section is to be completed by the Checker after verification of comment incorporation, if box B is checked off above.)

Select:

C. ☐ Verification of comment incorporation has been performed by Checker. There are no outstanding issues.

or

D. ☒ Verification of comment incorporation has been performed by Checker. Unresolved issues have been submitted to the Project Manager or Designee for final resolution.

and

E. ☒ Checker asserts that the work product review is complete.

Janis C. Murphy — Checker Signature — 6/4/18 — Date

APPROVAL and DISTRIBUTION

☒ Detail Check is complete.

Jinwei Qiu — Project Manager or Designee Signature — 06/05/2018 — Date

Distribution:

Project Central File – Quality File Folder

Other – Specify: Enter names here.

URS | Quality - *It's Good Business*

QMS Form 3-6 (MM)
Rev. 2013 QMS
Date: 28 Feb 2013

IE QMS - Americas

Independent Technical Review

Project Name	Update Water Control Manual for Canyon Dam and Lake	**Client**	USACE Fort Worth District
Project Location	Comal County, Texas	**PM**	Jinwei Qiu, PE
Project Number	60440846	**PIC**	Enter PIC Name

Identifying Information

(This section is to be completed by the Project Manager or the PM's Designee.)

Assigned Reviewer: Anand Prakash, PE — Comments Required by: April 6, 2018

Work Product Originator: Jinwei Qiu, Rifat Alam and Dawit Zeweldi

Work Product to be Reviewed: Canyon Dam and Lake Water Control Manual Chapters 4 to 9

Review Scope: Review for correctness, completeness and technical accuracy

Specific Instructions:

Submitted by: Jinwei Qiu — 04/02/2018

Project Manager Signature — Date

Comments

(This Section is to be completed by the Reviewer.)

Select:

A. ☐ Reviewer has no comments.

or

B. ☒ Comments have been provided on:

- ☒ Marked directly on work product
- ☐ Comment and Disposition Form 3-5
- ☐ Other; Specify:

Anand Prakash — 01/12/2018

Reviewer Signature — Date

Verification

(This section is to be completed by the Reviewer after verification of comment incorporation, if box B is checked off above.)

Select:

C. ☒ Verification of comment incorporation has been performed by Reviewer. There are no outstanding issues.

or

D. ☐ Verification of comment incorporation has been performed by Reviewer. Unresolved issues have been submitted to the Project Manager or Designee for resolution.

and

E. ☒ Reviewer asserts that the work product ITR is complete.

Anand Prakash — 5/31/2018

Reviewer Signature — Date

APPROVAL and DISTRIBUTION

☒ ITR is complete.

Jinwei Qiu — 06/05/2018

Project Manager or Designee Signature — Date

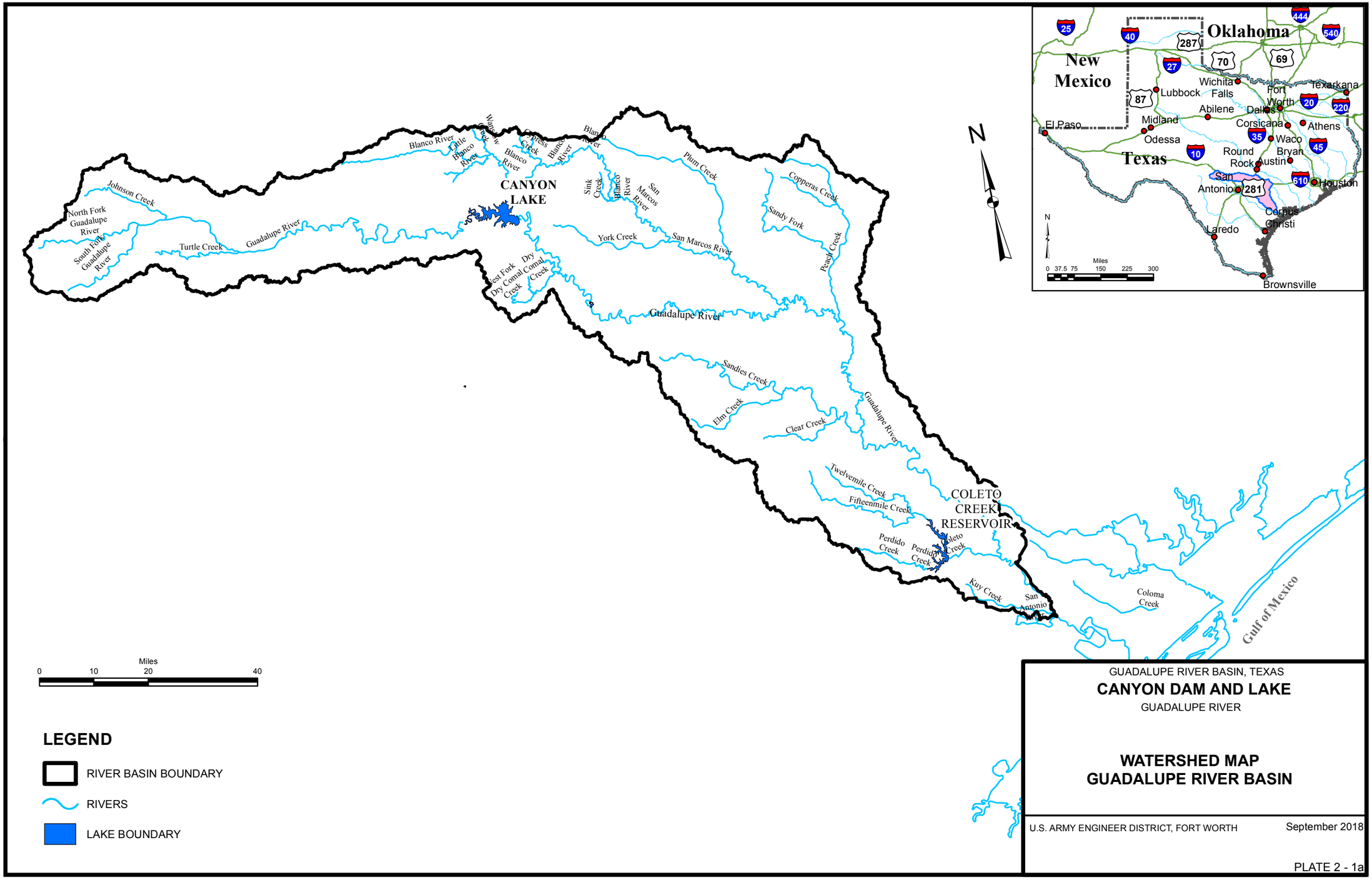
Distribution:

Project Central File – Quality File Folder

Other – Specify: Enter names here.

CORPS OF ENGINEERS

U.S. ARMY



GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

WATERSHED MAP
GUADALUPE RIVER BASIN

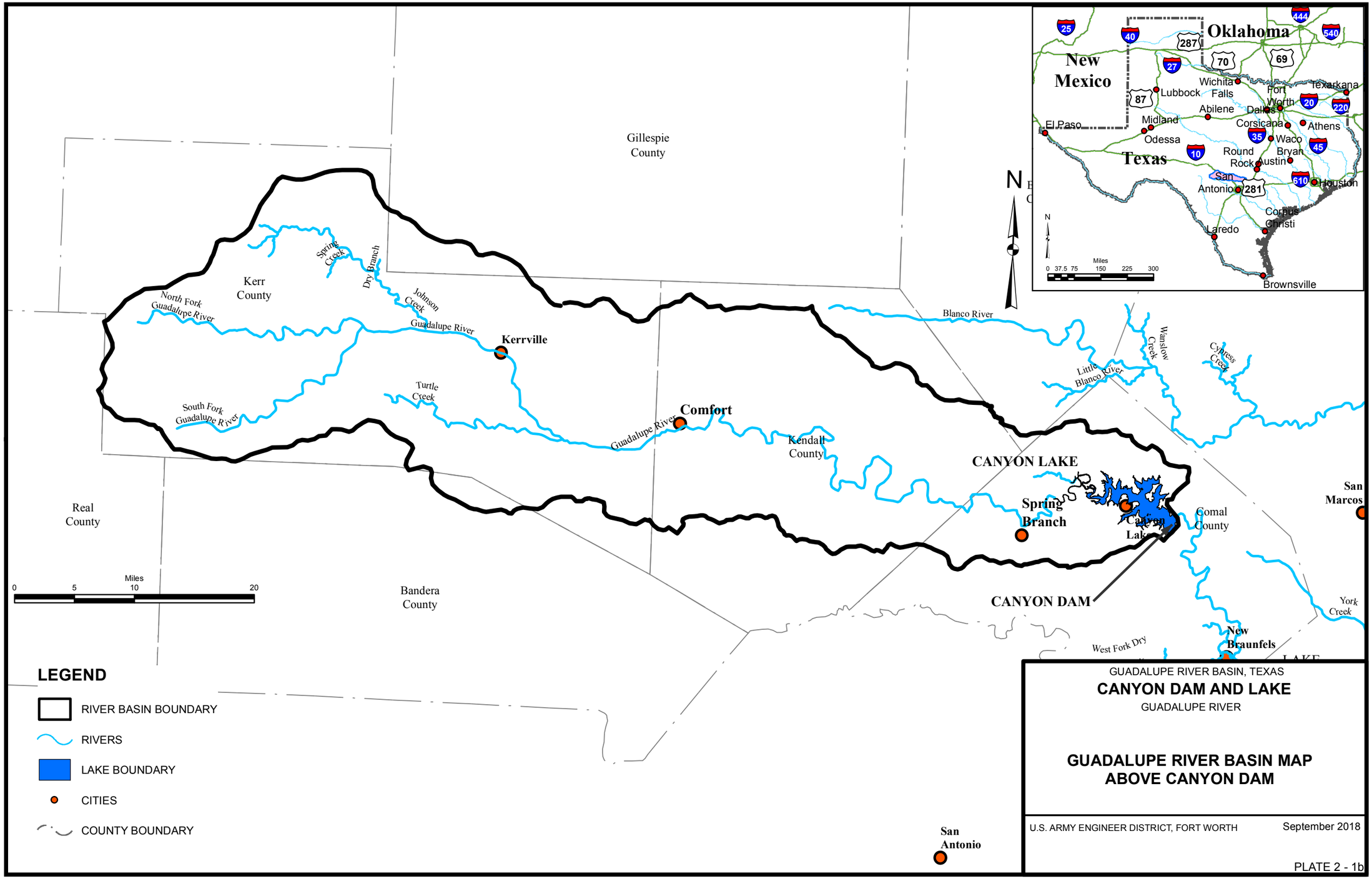
U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 2 - 1a

CORPS OF ENGINEERS

U.S. ARMY



GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

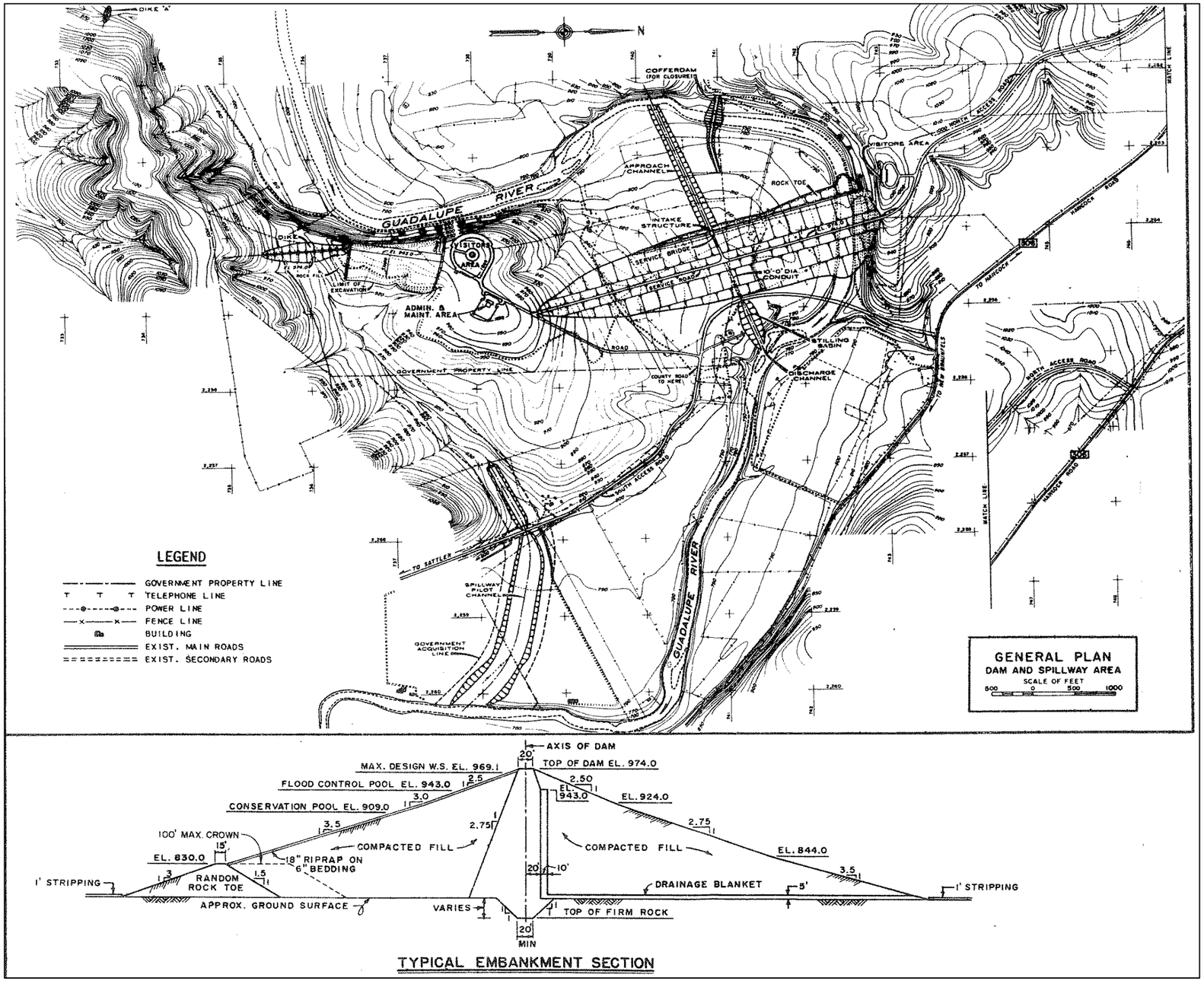
GUADALUPE RIVER

GUADALUPE RIVER BASIN MAP ABOVE CANYON DAM

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 2 - 1b



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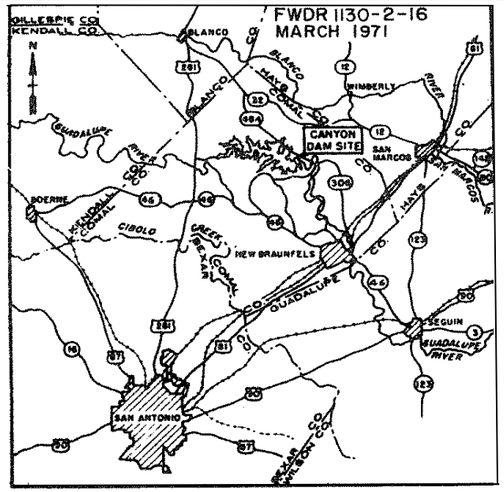


VICINITY MAP

SCALE OF MILES
2 0 2 4 6 8

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 IS: NGVD29 + 0.3 FEET = NAVD88 FOR CANYON DAM AND LAKE.

GUADALUPE RIVER BASIN, TEXAS

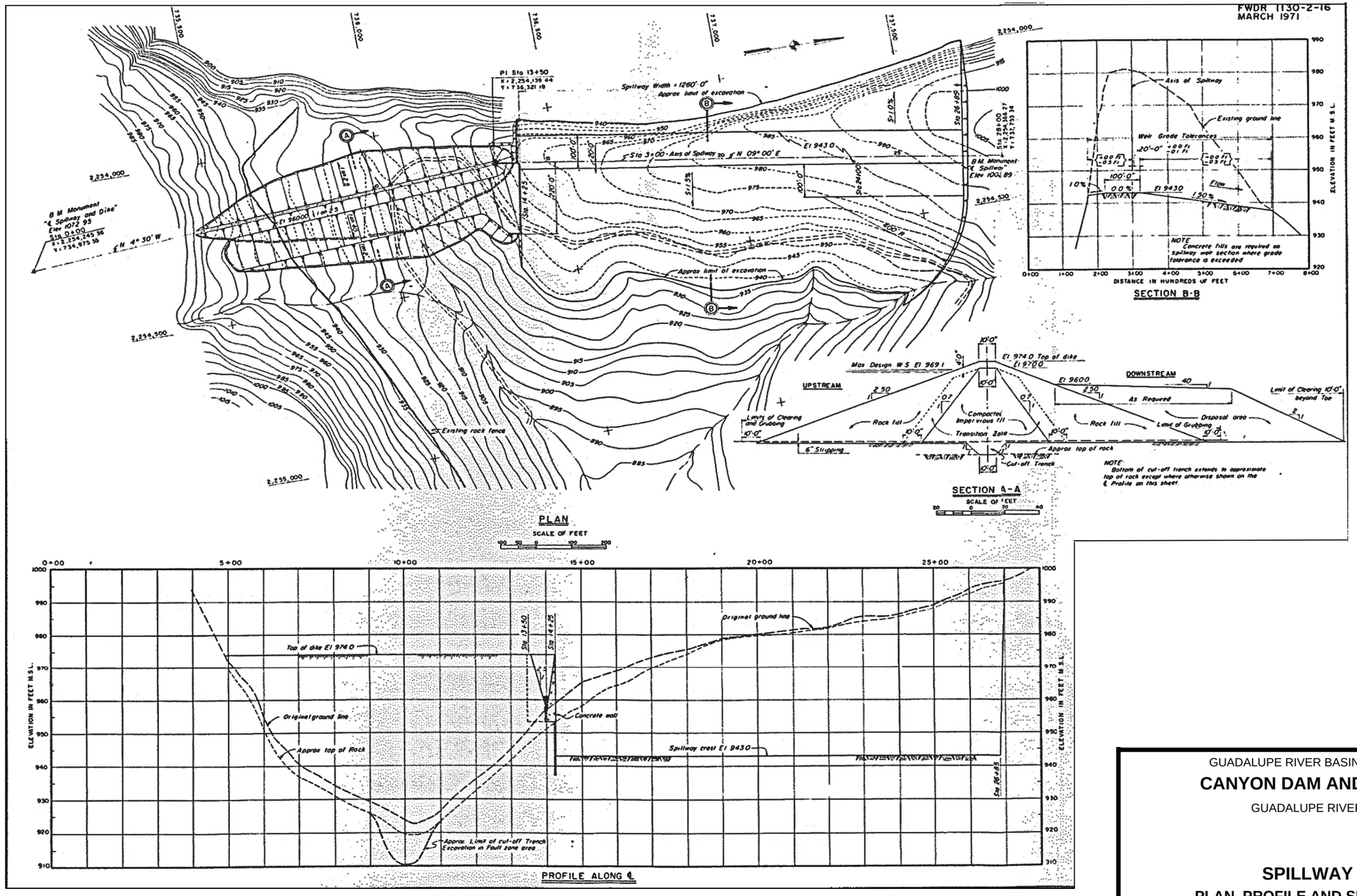
CANYON DAM AND LAKE

GUADALUPE RIVER

GENERAL PLAN AND TYPICAL SECTION

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

FWDR 1130-2-16
MARCH 1971



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GUADALUPE RIVER BASIN, TEXAS

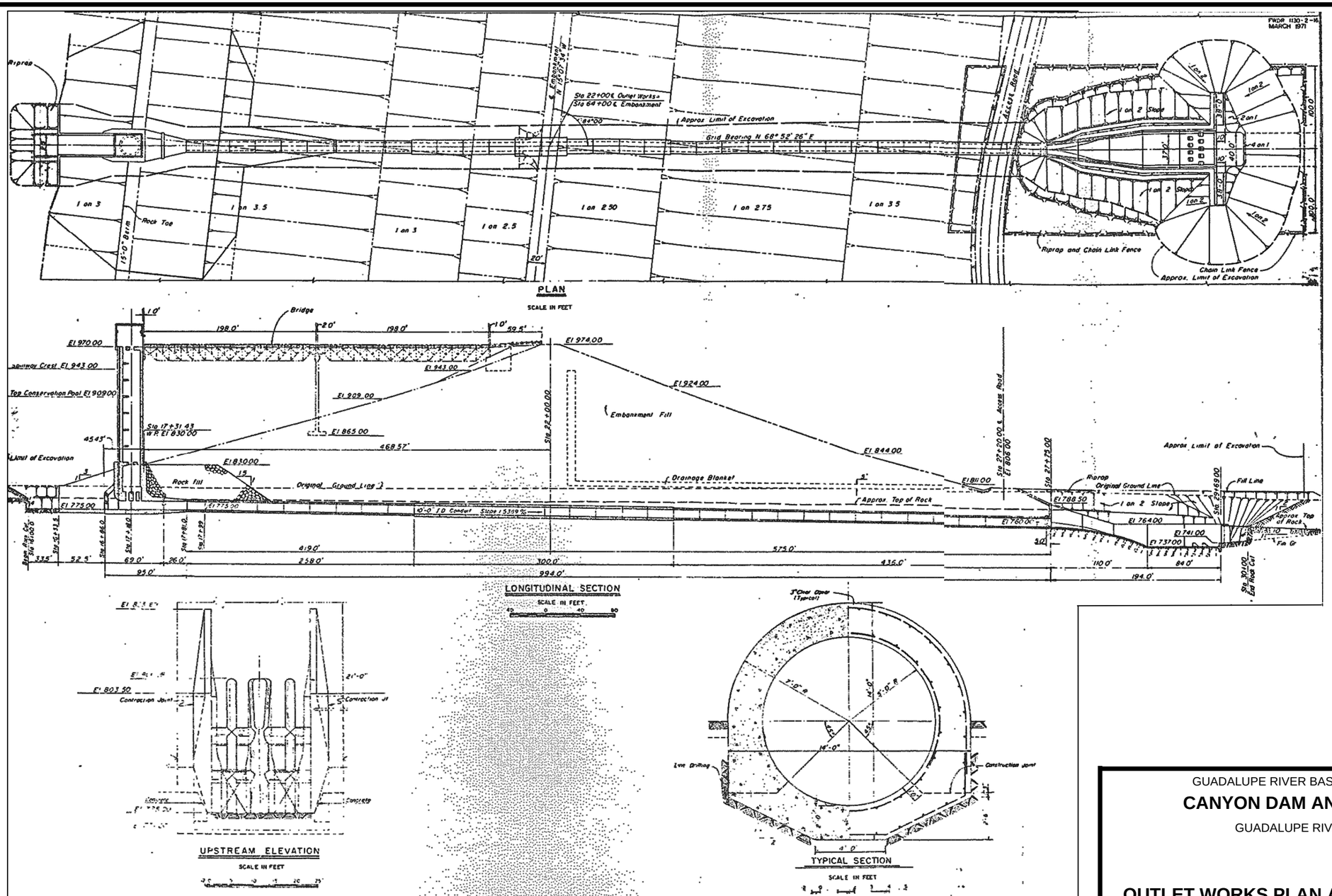
CANYON DAM AND LAKE

GUADALUPE RIVER

SPILLWAY

PLAN, PROFILE AND SECTIONS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 IS: NGVD29 + 0.3 FEET = NAVD88 CANYON DAM AND LAKE.

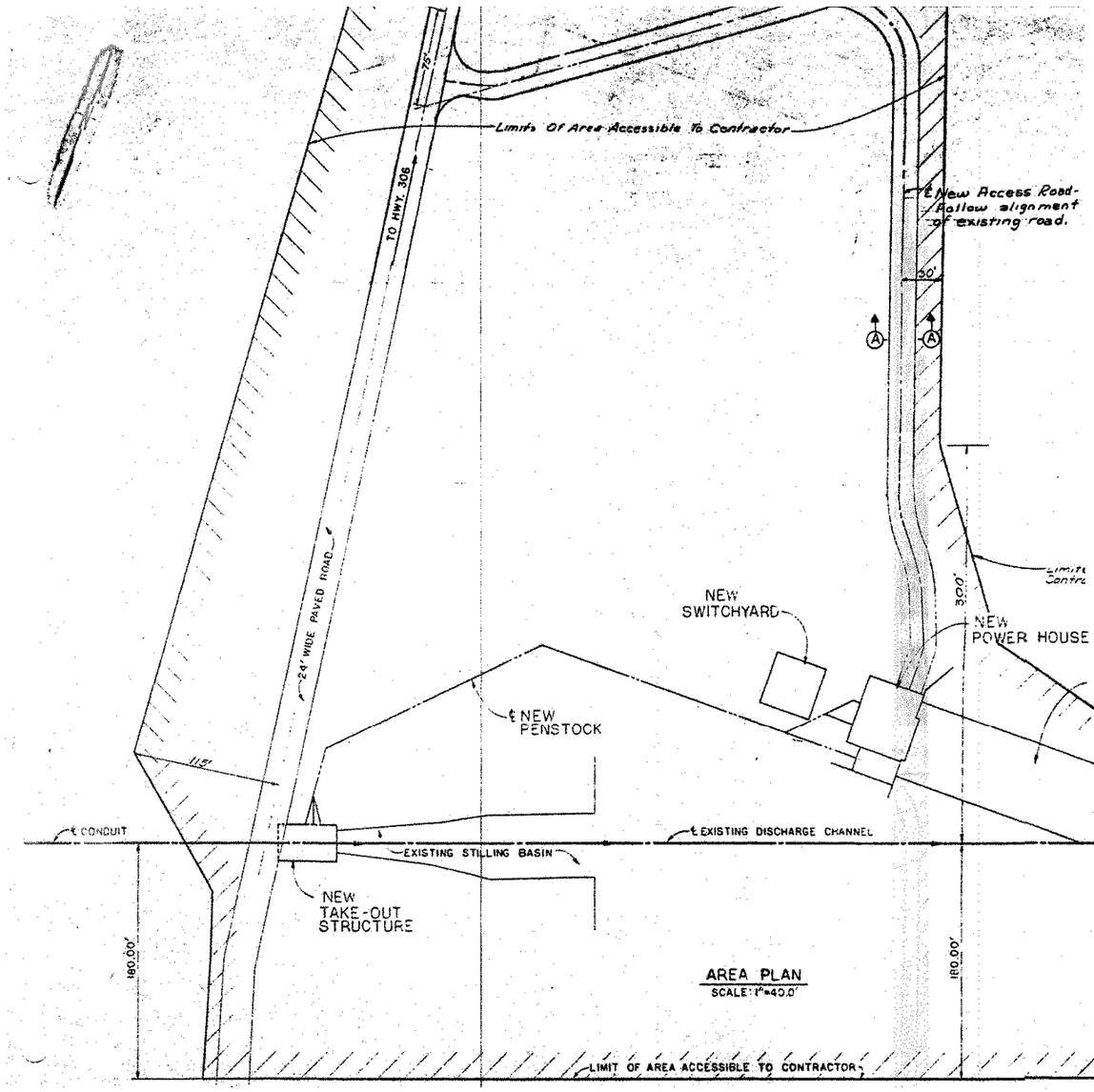
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

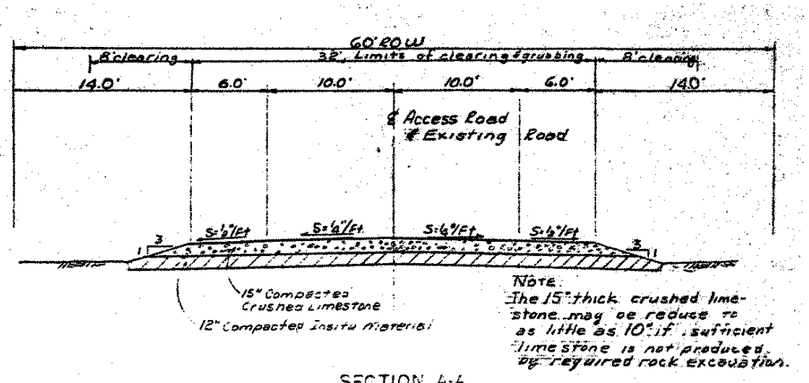
GUADALUPE RIVER

OUTLET WORKS PLAN AND SECTIONS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



AREA PLAN
SCALE: 1"=40.0'



SECTION A-A
Scale 1"=5'

NOTES:

1. Contractor Shall Not Have Access To The Slopes Of The Embankment except for installation of the electrical conduit.
2. After installing the electrical conduit, the embank slope shall be restored to its original condition.
3. Contractor to have access to Intake Structure via the embankment road and the Intake Structure bridge

FINAL & RECORD PRINT MARCH 9, 1988

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 IS: NGVD29 + 0.3 FEET = NAVD88 CANYON DAM AND LAKE.

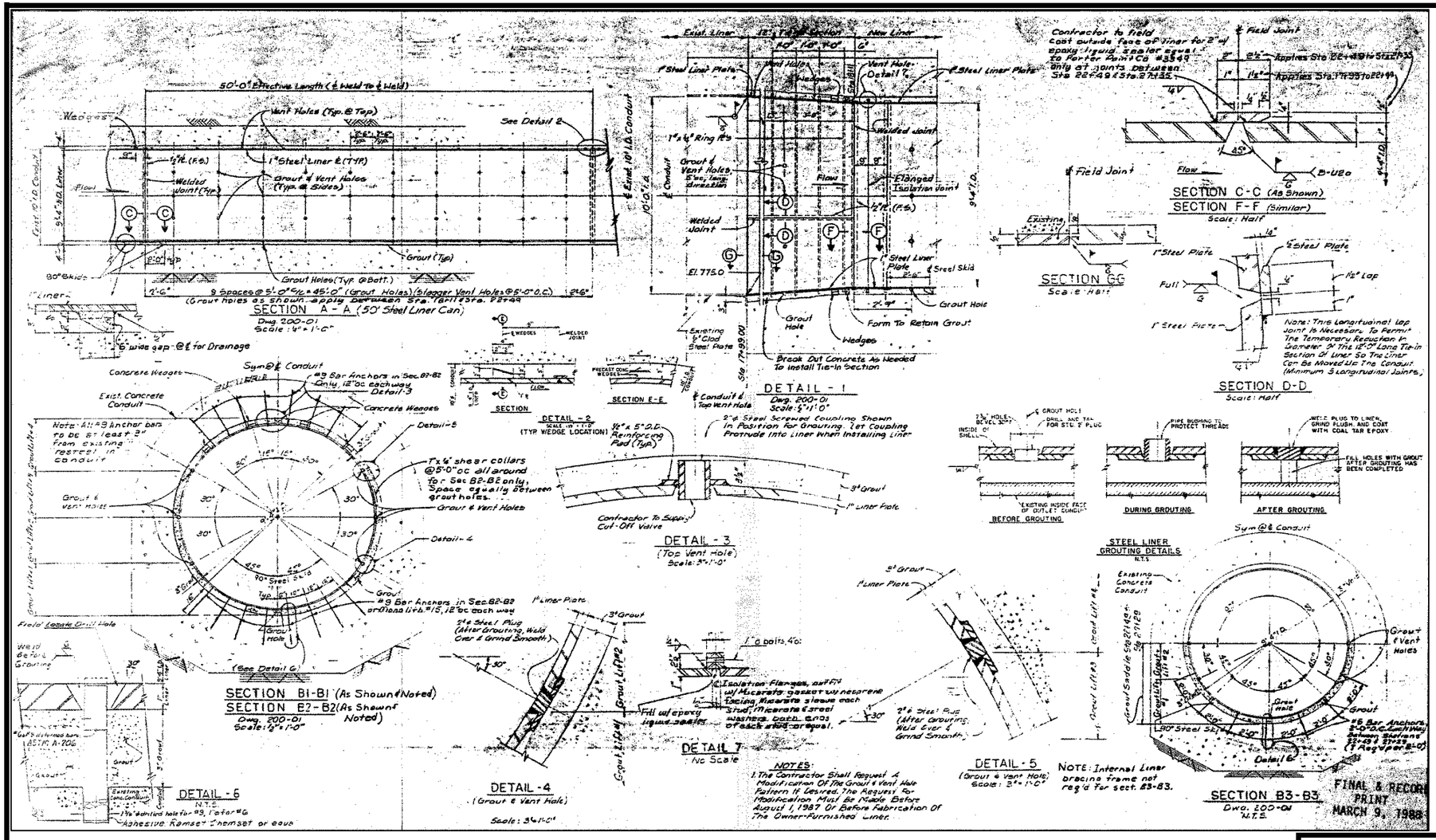
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

HYDROPOWER PLANT
AREA PLAN AND ACCESS ROAD

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



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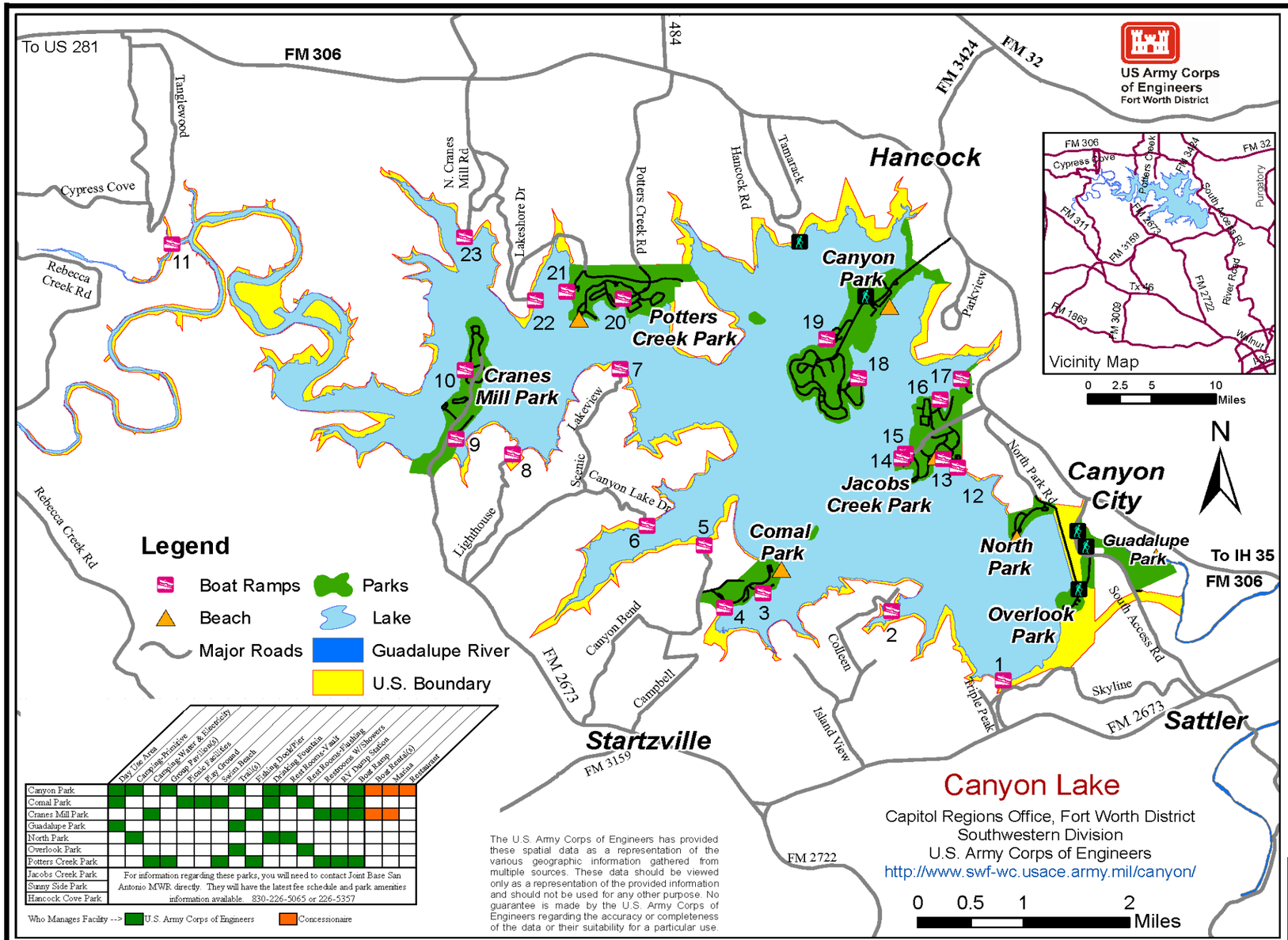
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

HYDROPOWER PLANT CONDUIT LINER SECTIONS AND DETAILS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



	Day Use Area	Camping-Primitive	Camping-Water & Electricity	Group Pavilion(s)	Picnic Facilities	Play Ground	Swim Beach	Trail(s)	Fishing Dock/Pier	Drinking Fountain	Rest Rooms-Vault	Rest Rooms-Flushing	Restroom- W/Showers	RV Dump Station	Boat Ramp	Boat Rental(s)	Marina	Restaurant
Canyon Park	■	■		■				■		■	■				■	■	■	■
Comal Park	■				■	■	■		■		■				■		■	
Cranes Mill Park			■					■					■	■	■	■	■	
Guadalupe Park	■						■					■						
North Park		■						■		■	■							
Overlook Park							■					■						
Potters Creek Park			■	■				■					■	■	■			
Jacobs Creek Park	For information regarding these parks, you will need to contact Joint Base San Antonio MWR directly. They will have the latest fee schedule and park amenities information available. 830-226-5065 or 226-5357																	
Sunny Side Park																		
Hancock Cove Park																		

Who Manages Facility --> ■ U.S. Army Corps of Engineers ■ Concessionaire

The U.S. Army Corps of Engineers has provided these spatial data as a representation of the various geographic information gathered from multiple sources. These data should be viewed only as a representation of the provided information and should not be used for any other purpose. No guarantee is made by the U.S. Army Corps of Engineers regarding the accuracy or completeness of the data or their suitability for a particular use.

Canyon Lake

Capitol Regions Office, Fort Worth District
Southwestern Division
U.S. Army Corps of Engineers
http://www.swf-wc.usace.army.mil/canyon/

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

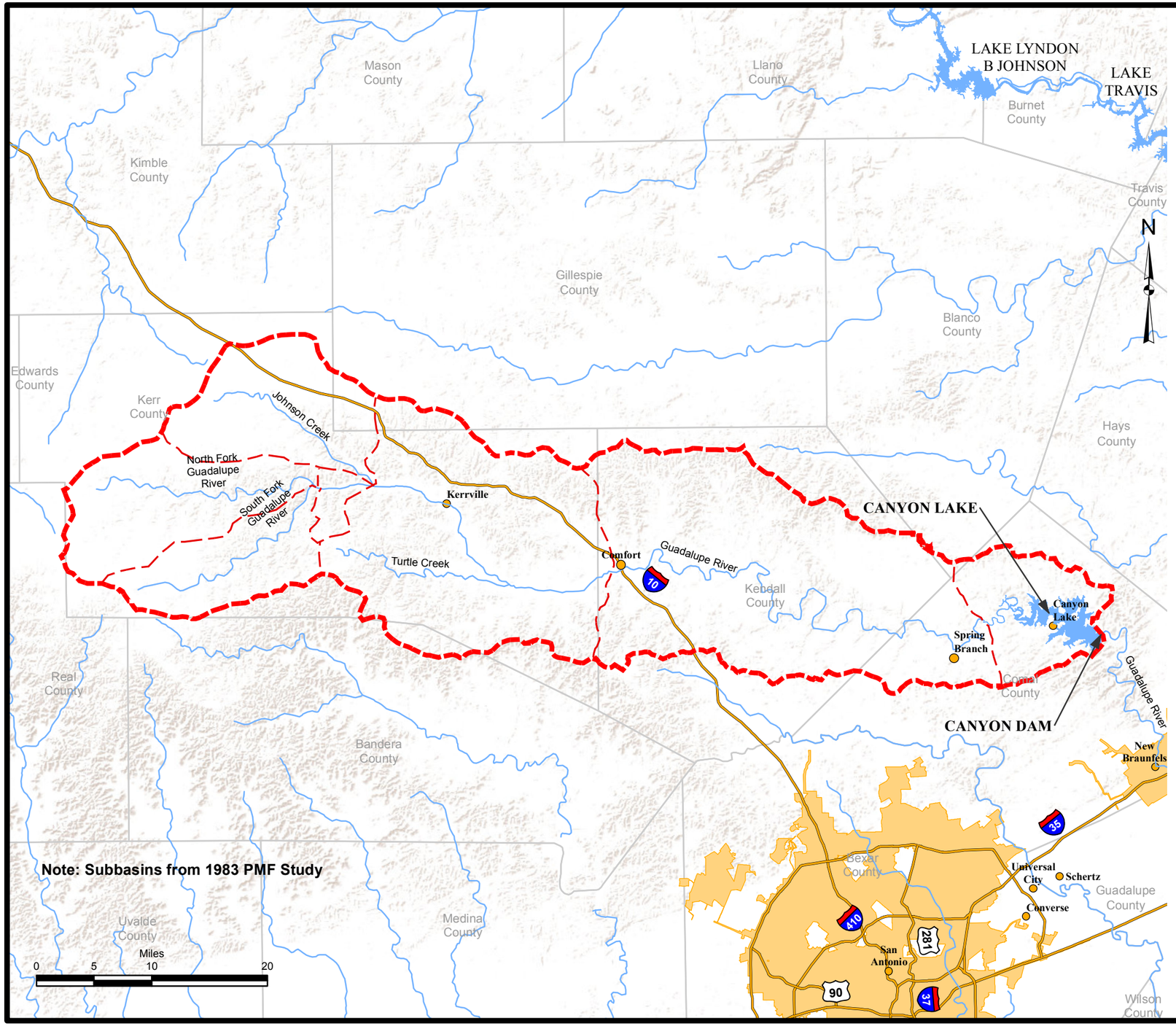
GUADALUPE RIVER

PUBLIC USE AREAS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

CORPS OF ENGINEERS

U.S. ARMY



LEGEND

- RIVER BASIN BOUNDARY
- SUB BASIN BOUNDARY
- RIVERS
- LAKE BOUNDARY
- CITIES
- INTERSTATE
- METRO AREAS

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

LOCAL WATERSHED MAP

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 4 - 1

FWDR 1130-2-16
MARCH 1971

NOTES:

Elevations of bridges refer to low steel elevations.
Where no elevations are shown, bridges are low water structures.
L.B. and R.B. are abbreviations for left bank and right bank, respectively.
High-water profile is based upon maximum floods of record.
Mile 0.0 to mile 281.06 and mile 367.46 to mile 419.2 (North Fork), stream bed profile
Mile 281.06 to mile 367.46, low water profile.

SOURCES OF DATA:
Corps of Engineers – 1908 and 1912 survey data below Victoria
Corps of Engineers – 1935 and 1939 survey data and Central Power & Light Company.
Texas Power & Light Co. – 1928 survey data were used to supplement the water surface data obtained by the Corps of Engineers field party from mile 367.0 to mile 419.0

PERTINENT DATA
CANYON DAM AND RESERVOIR

RESERVOIR LEVEL	ELEV IN FT M.S.L.	Δ STORAGE	TOTAL STORAGE
CONSERVATION STORAGE	909.0	386,200	386,200
FLOOD CONTROL STORAGE	943.0	354,700	740,900
DESIGN WATER SURFACE	969.1	388,400	1,129,300
TOP OF DAM	974.0		

* INCLUDES 18,600 AC-FT OF SEDIMENT STORAGE
** INCLUDES 8,300 AC-FT OF SEDIMENT STORAGE
SPILLWAY IS UNCONTROLLED CREST AT ELEVATION 943.0

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GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

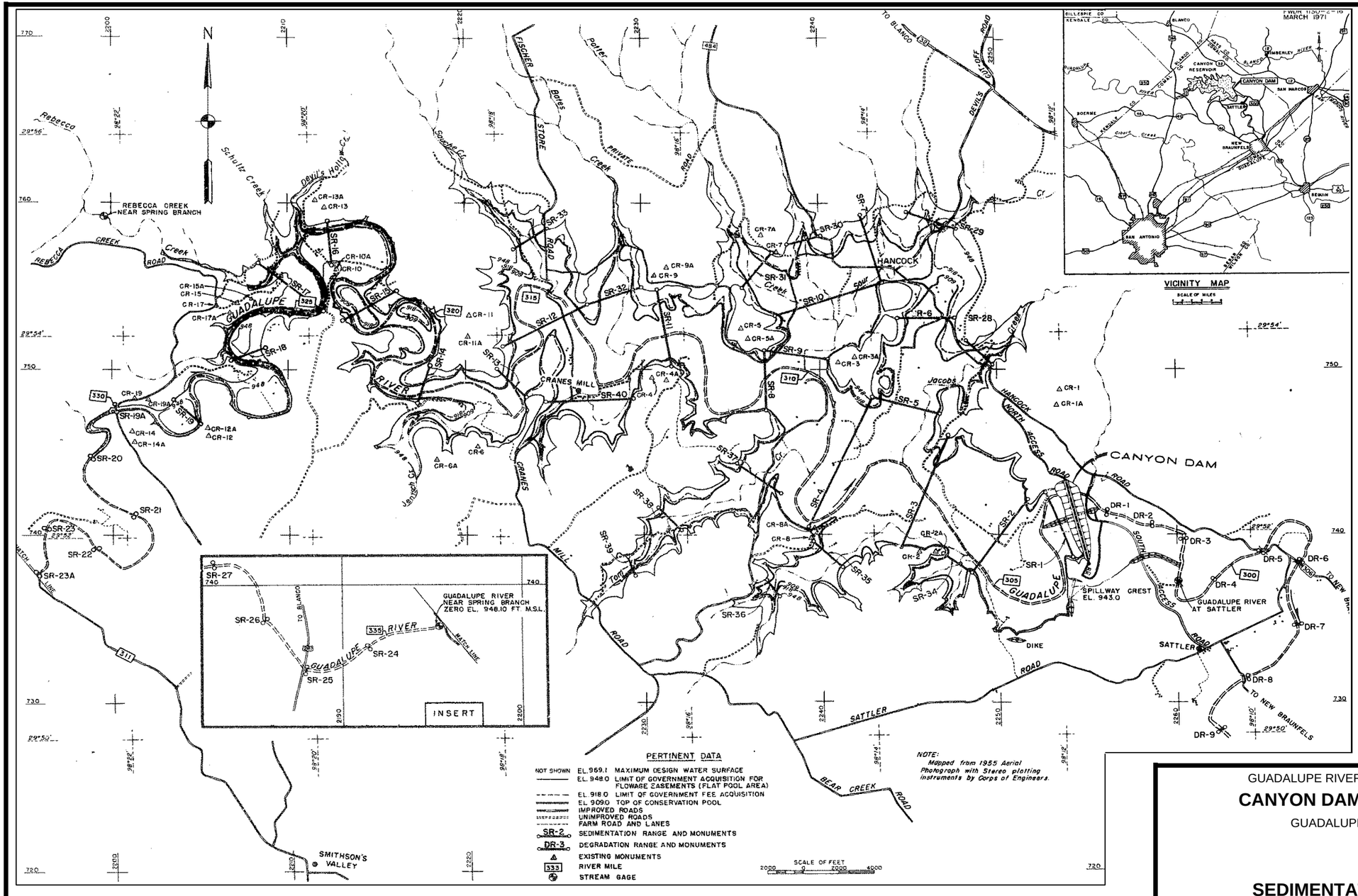
GUADALUPE RIVER

GUADALUPE RIVER PROFILES

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

CORPS OF ENGINEERS

U.S. ARMY



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GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

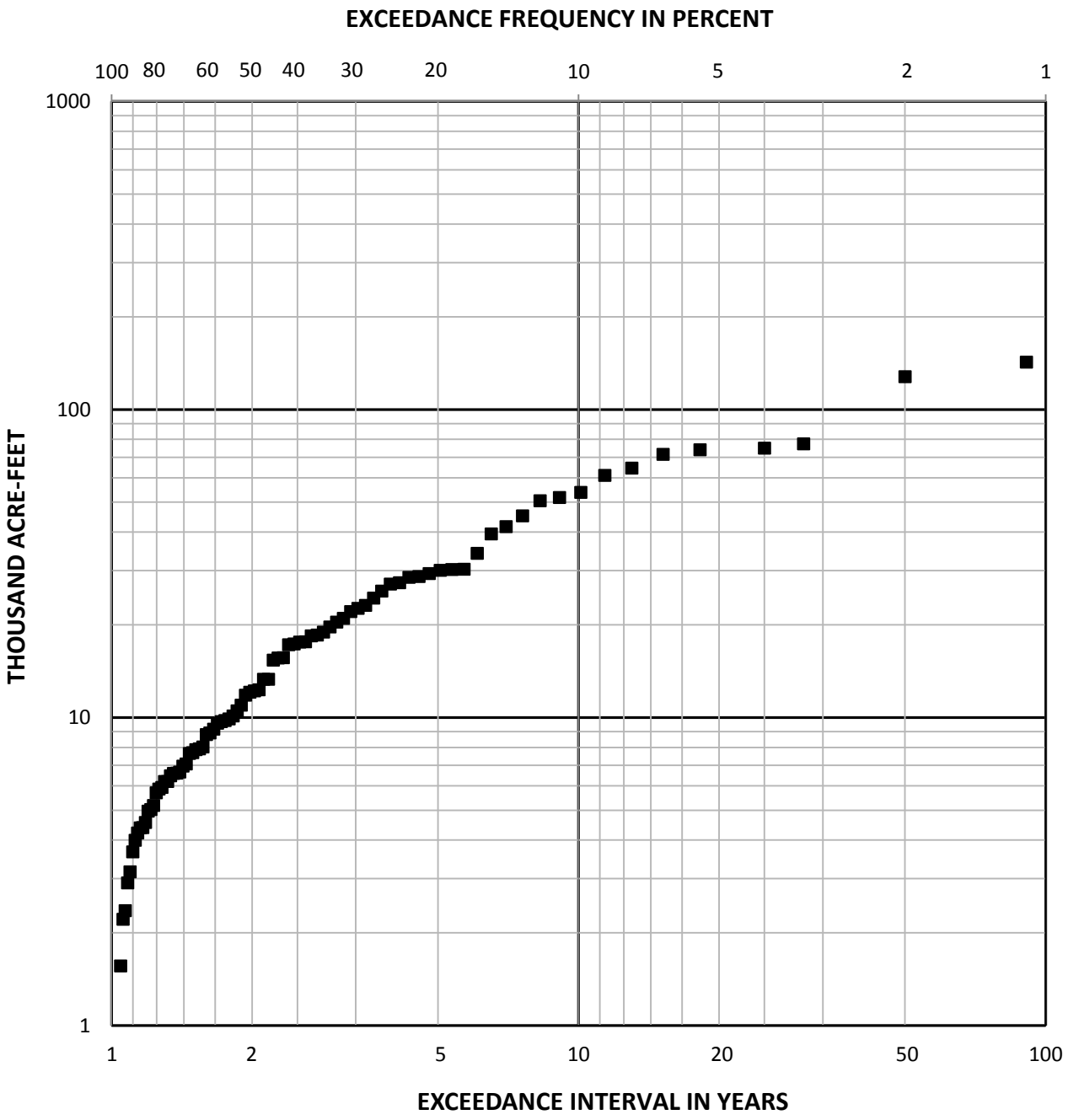
GUADALUPE RIVER

SEDIMENTATION AND DEGRADATION RANGES

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 4 - 3



GUADALUPE RIVER BASIN, TEXAS

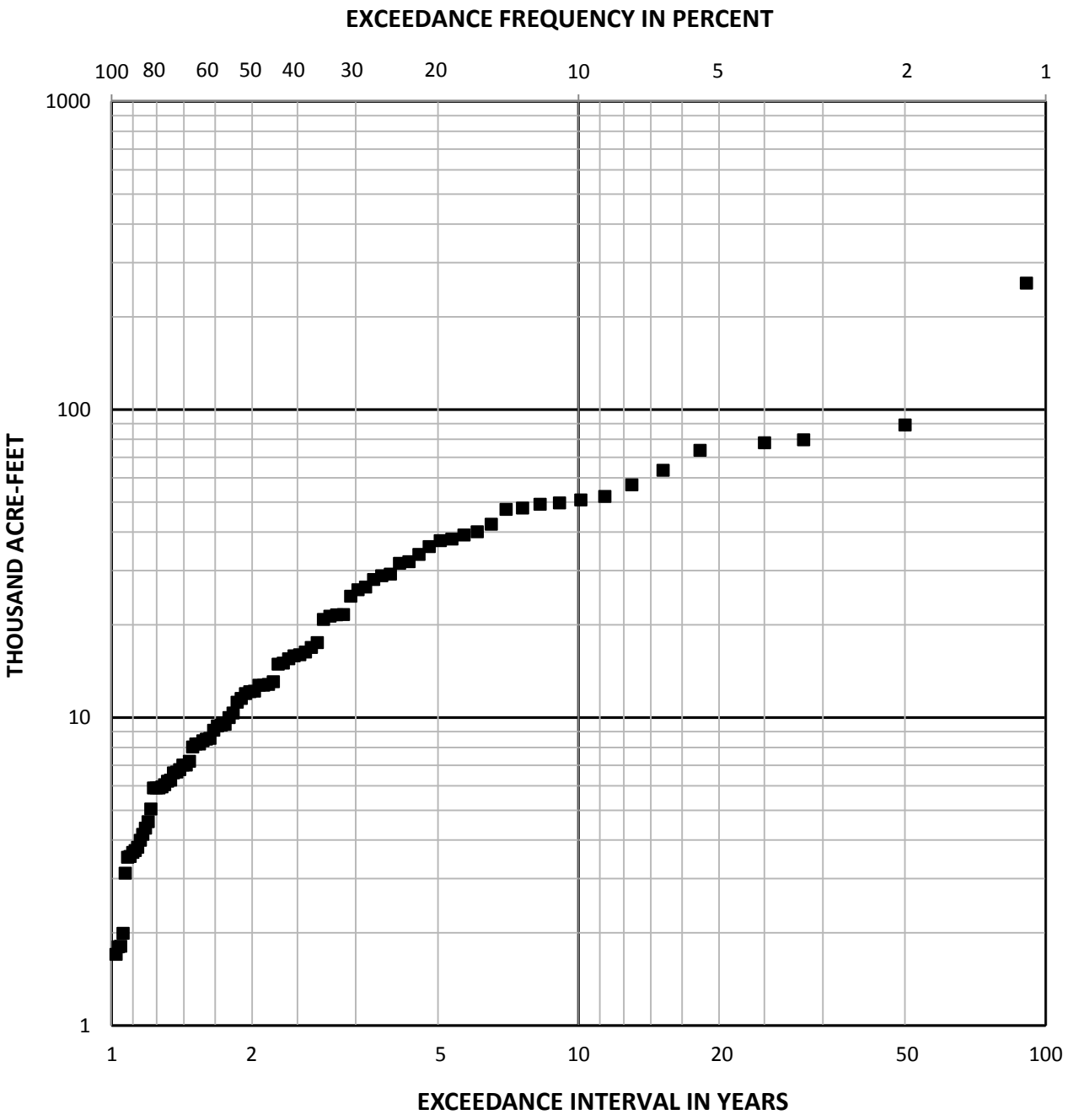
CANYON DAM AND LAKE

GUADALUPE RIVER

JANUARY INFLOW FREQUENCY 1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 4



GUADALUPE RIVER BASIN, TEXAS

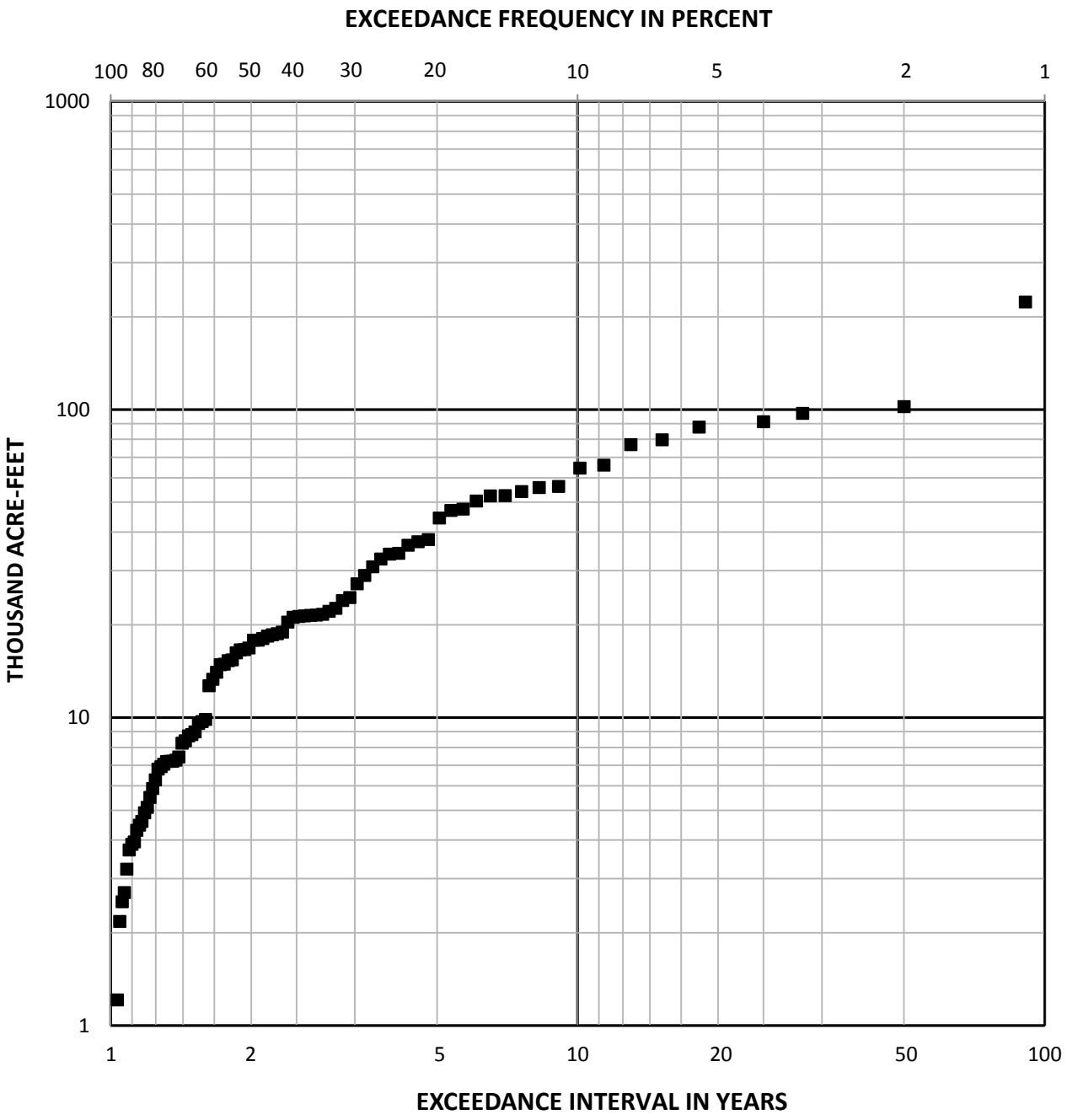
CANYON DAM AND LAKE

GUADALUPE RIVER

FEBRUARY INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 5



GUADALUPE RIVER BASIN, TEXAS

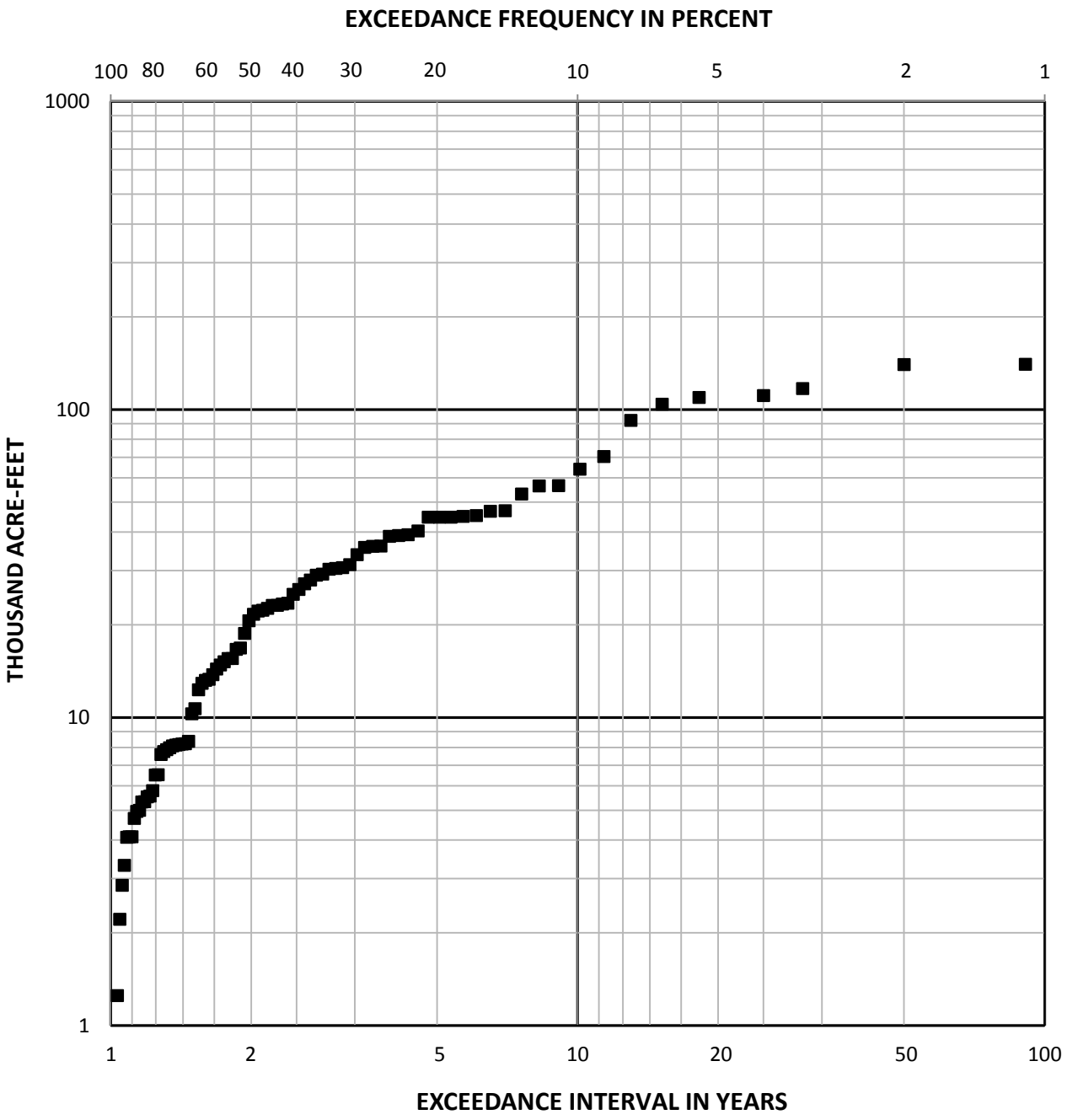
CANYON DAM AND LAKE

GUADALUPE RIVER

MARCH INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 6



GUADALUPE RIVER BASIN, TEXAS

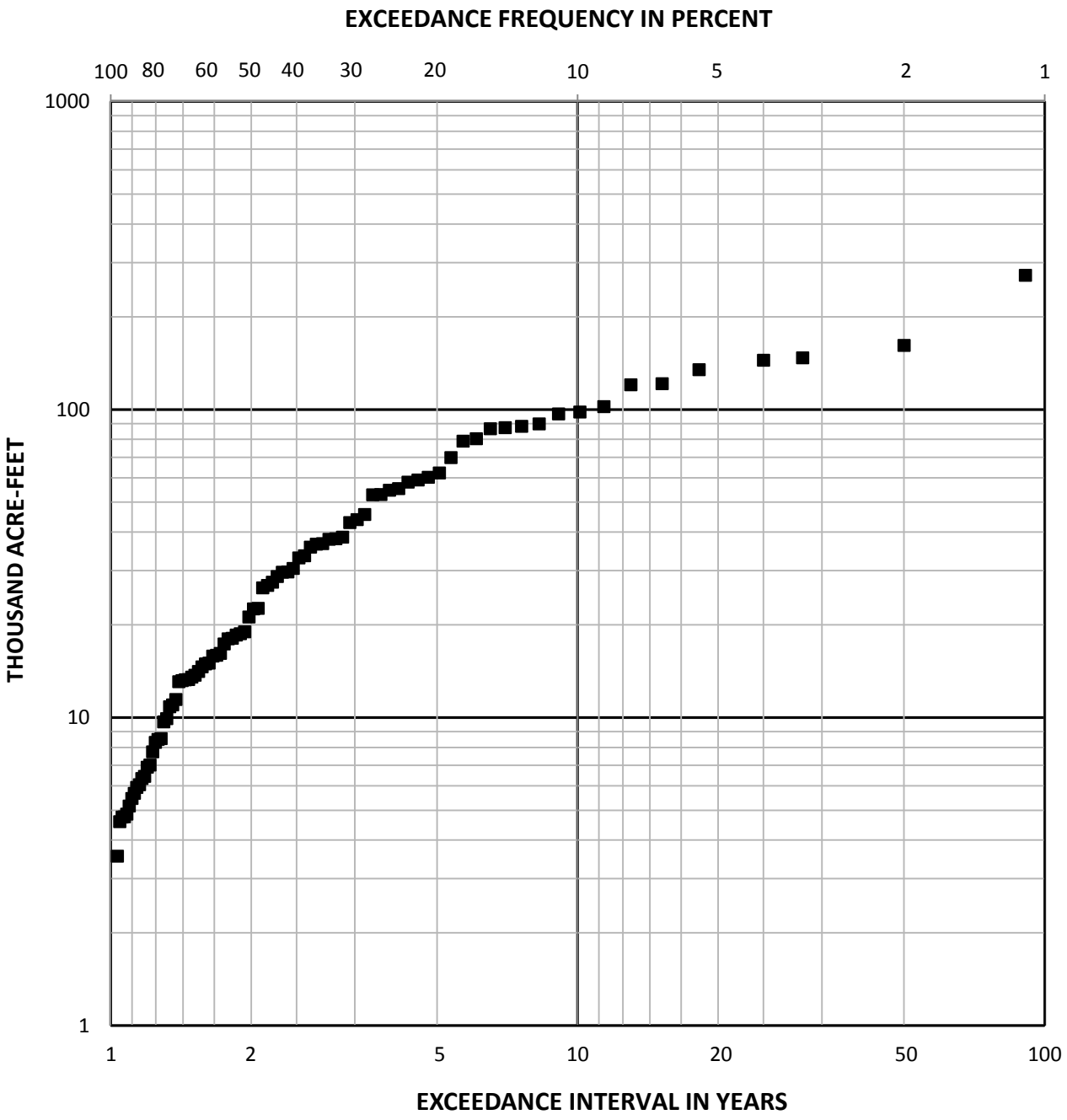
CANYON DAM AND LAKE

GUADALUPE RIVER

APRIL INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 7



GUADALUPE RIVER BASIN, TEXAS

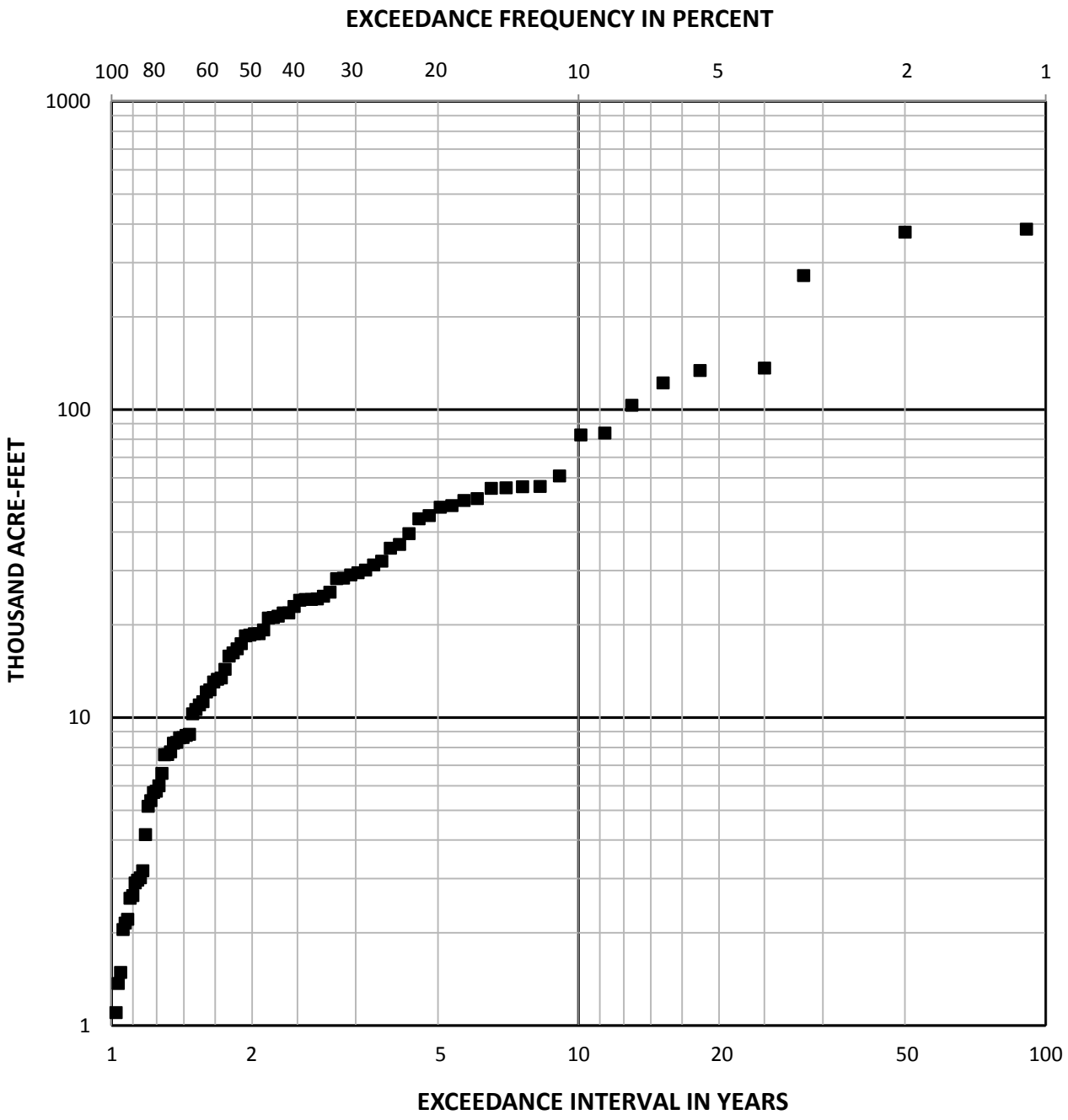
CANYON DAM AND LAKE

GUADALUPE RIVER

MAY INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 8



GUADALUPE RIVER BASIN, TEXAS

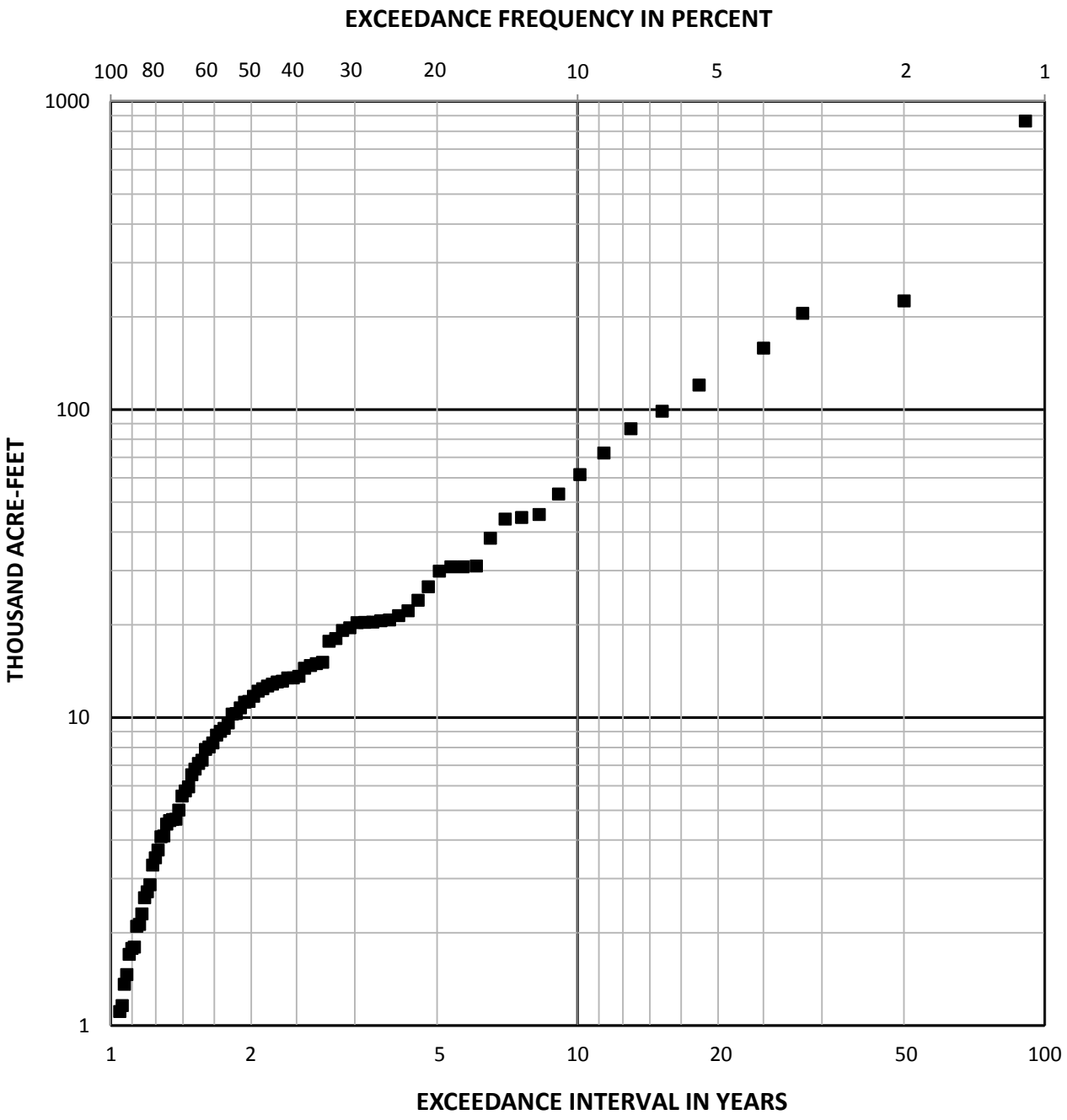
CANYON DAM AND LAKE

GUADALUPE RIVER

JUNE INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 9



GUADALUPE RIVER BASIN, TEXAS

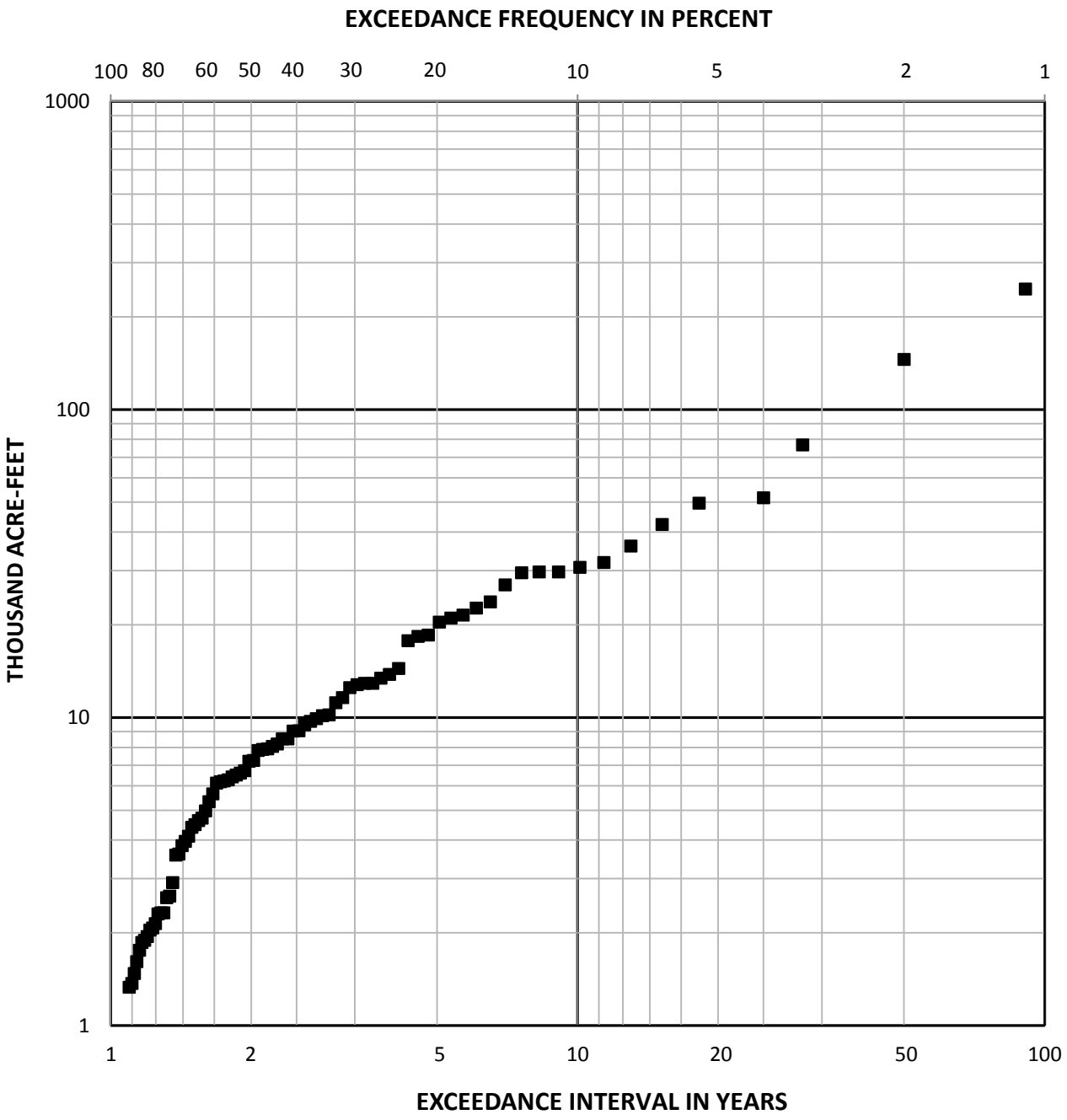
CANYON DAM AND LAKE

GUADALUPE RIVER

JULY INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 10



GUADALUPE RIVER BASIN, TEXAS

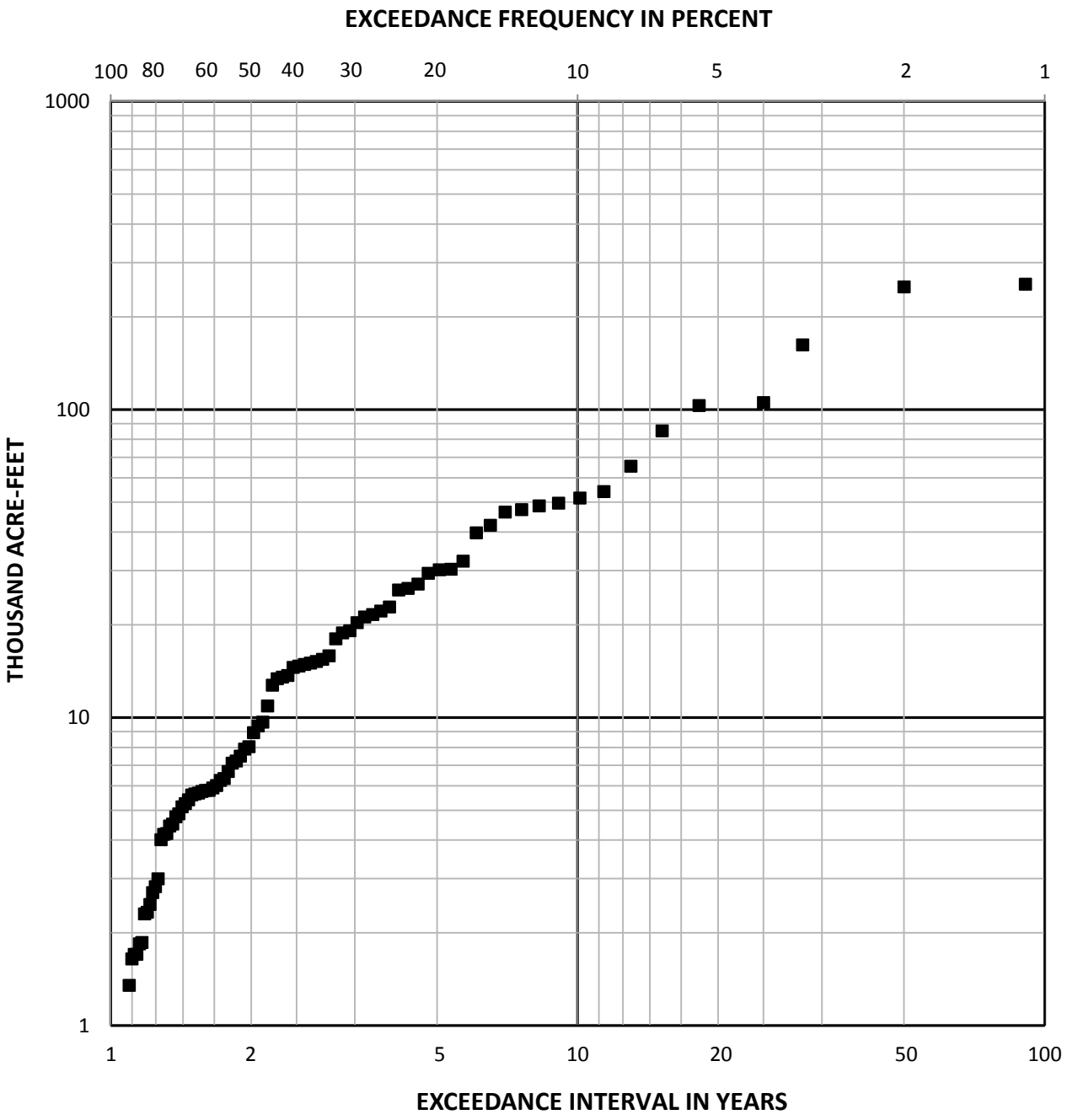
CANYON DAM AND LAKE

GUADALUPE RIVER

AUGUST INFLOW FREQUENCY 1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 11



GUADALUPE RIVER BASIN, TEXAS

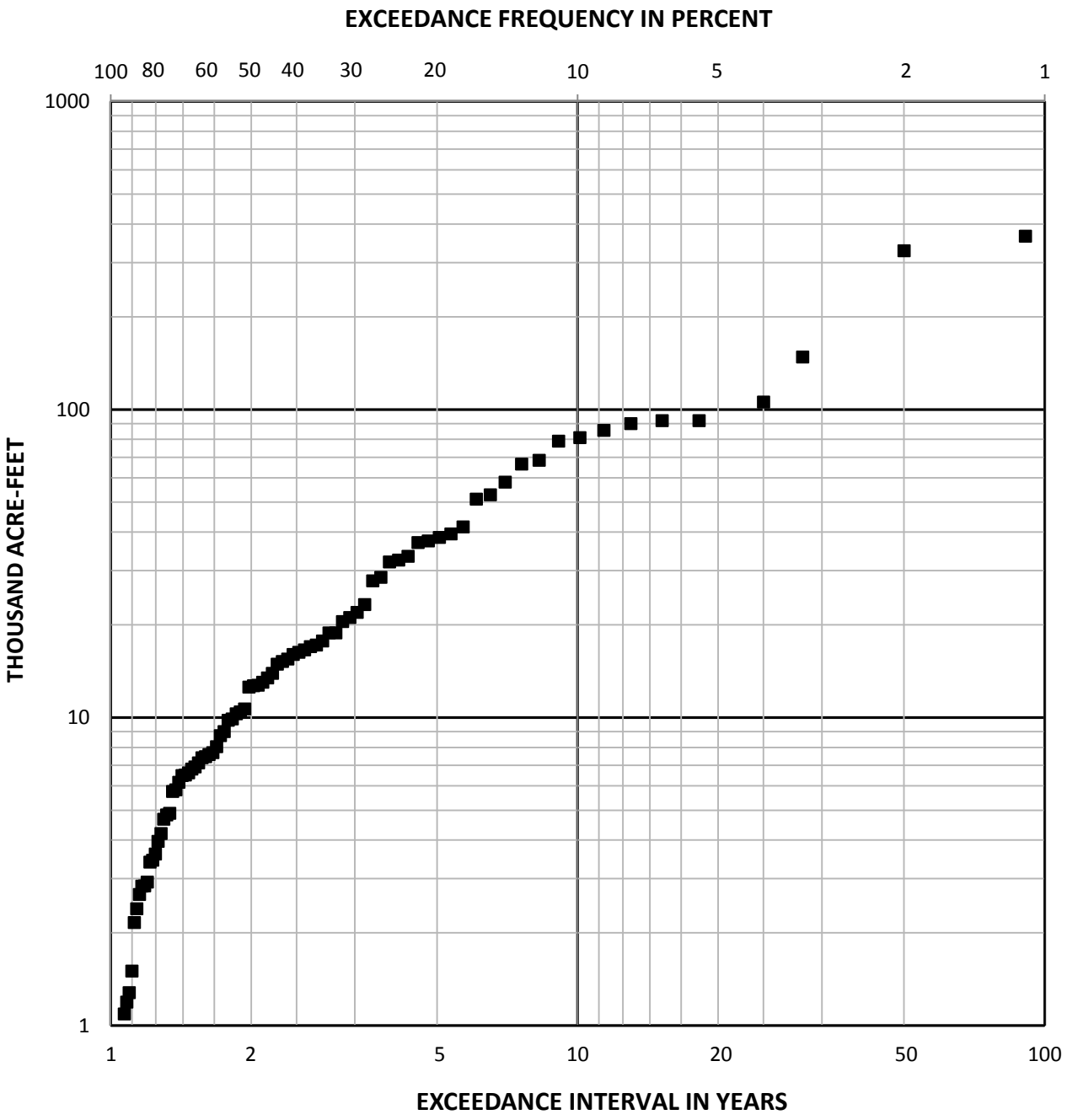
CANYON DAM AND LAKE

GUADALUPE RIVER

SEPTEMBER INFLOW FREQUENCY 1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 12



GUADALUPE RIVER BASIN, TEXAS

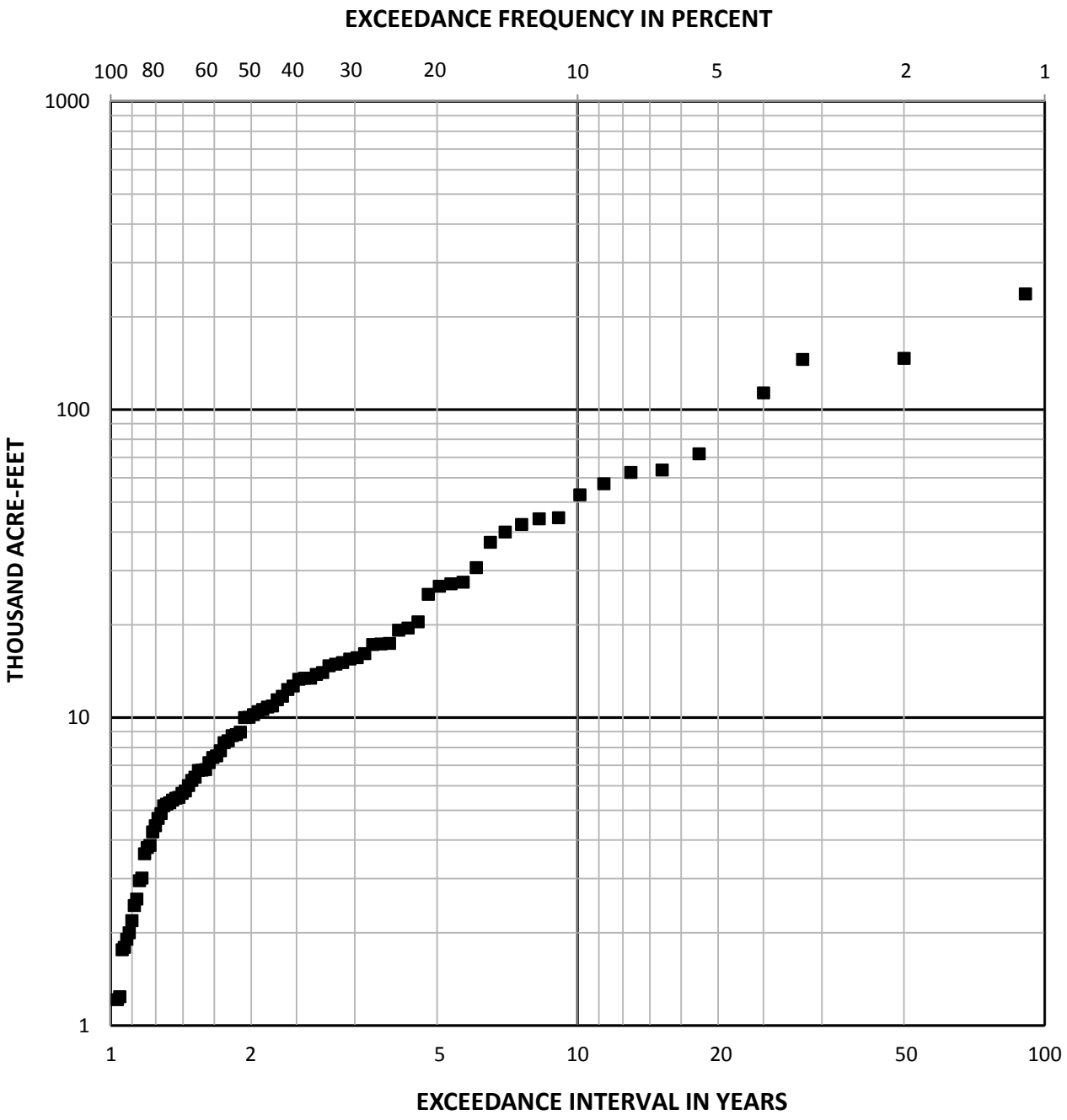
CANYON DAM AND LAKE

GUADALUPE RIVER

OCTOBER INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 13



GUADALUPE RIVER BASIN, TEXAS

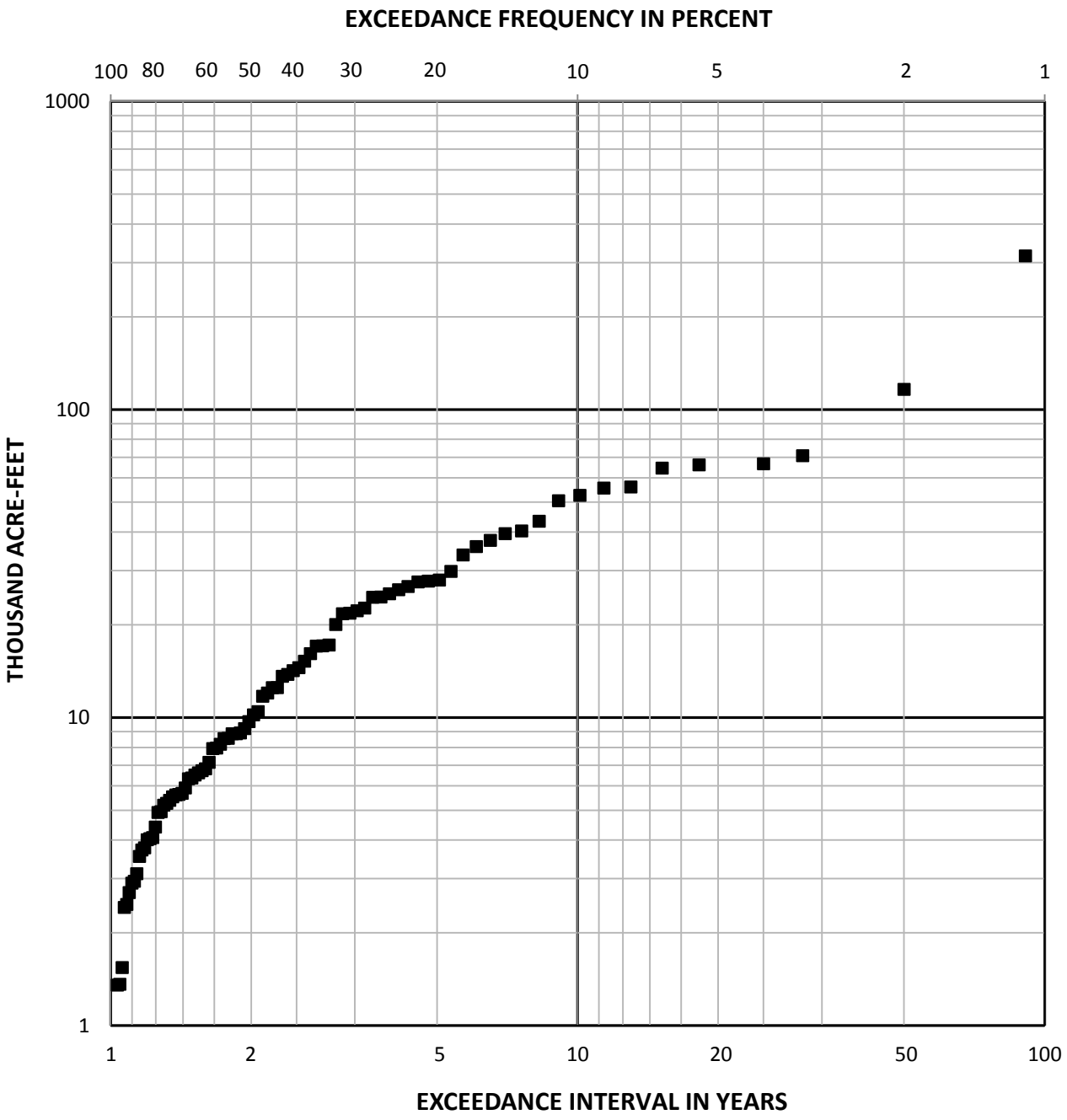
CANYON DAM AND LAKE

GUADALUPE RIVER

NOVEMBER INFLOW FREQUENCY 1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 14



GUADALUPE RIVER BASIN, TEXAS

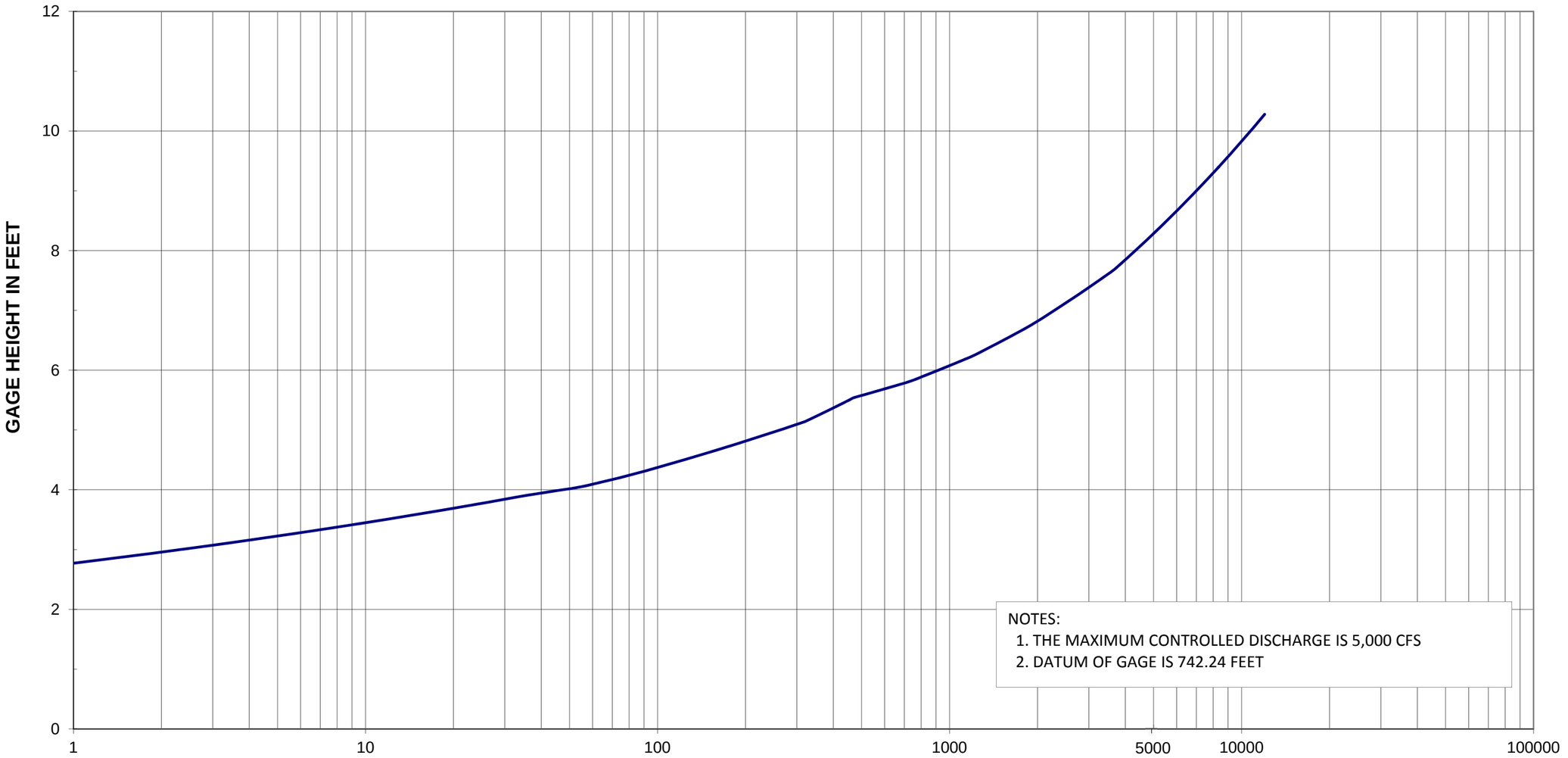
CANYON DAM AND LAKE

GUADALUPE RIVER

DECEMBER INFLOW FREQUENCY
1915-2017

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 4 - 15



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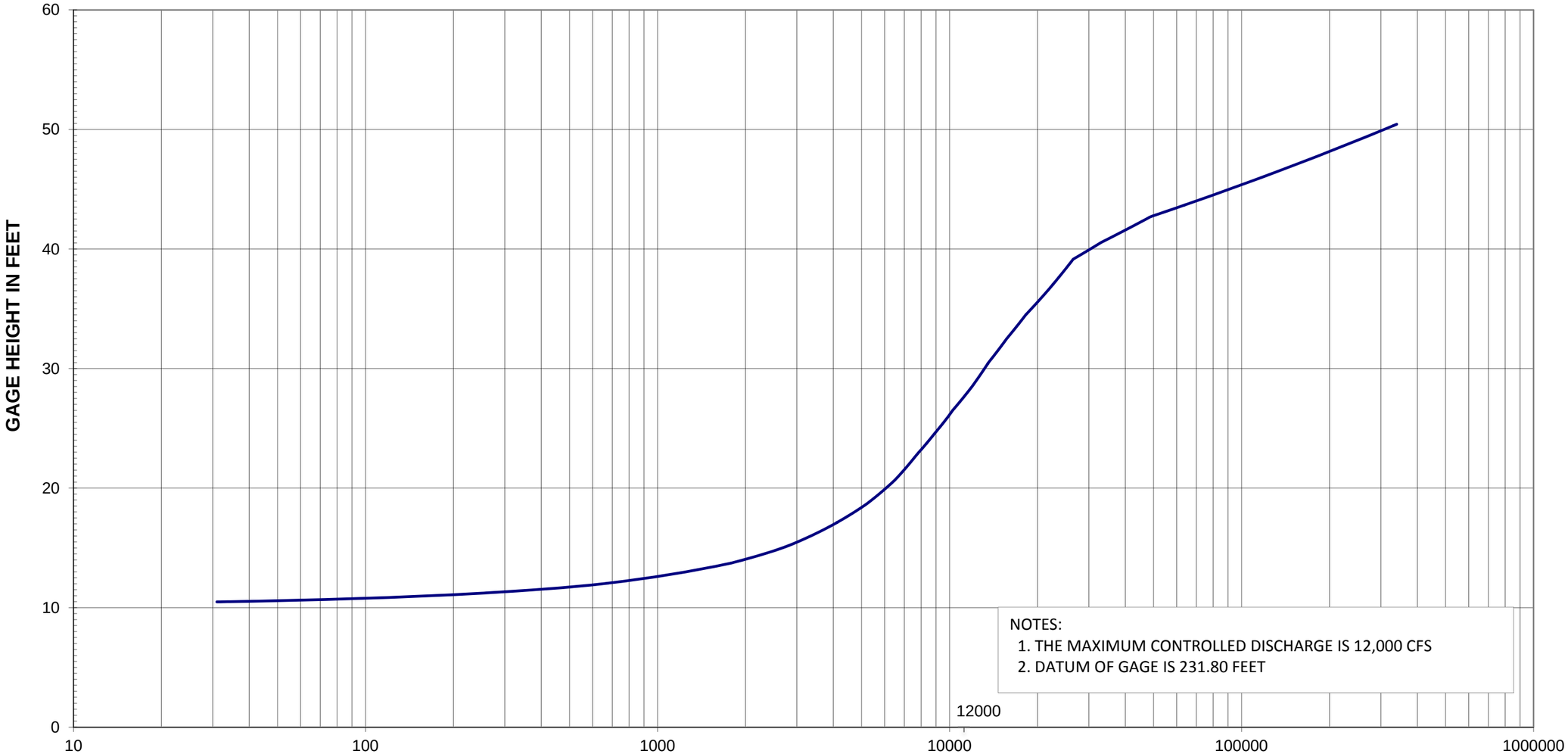
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

RATING CURVE
GUADALUPE RIVER AT SATTLER
USGS GAGE NO. 08167800

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018



DISCHARGE IN CUBIC FEET PER SECOND

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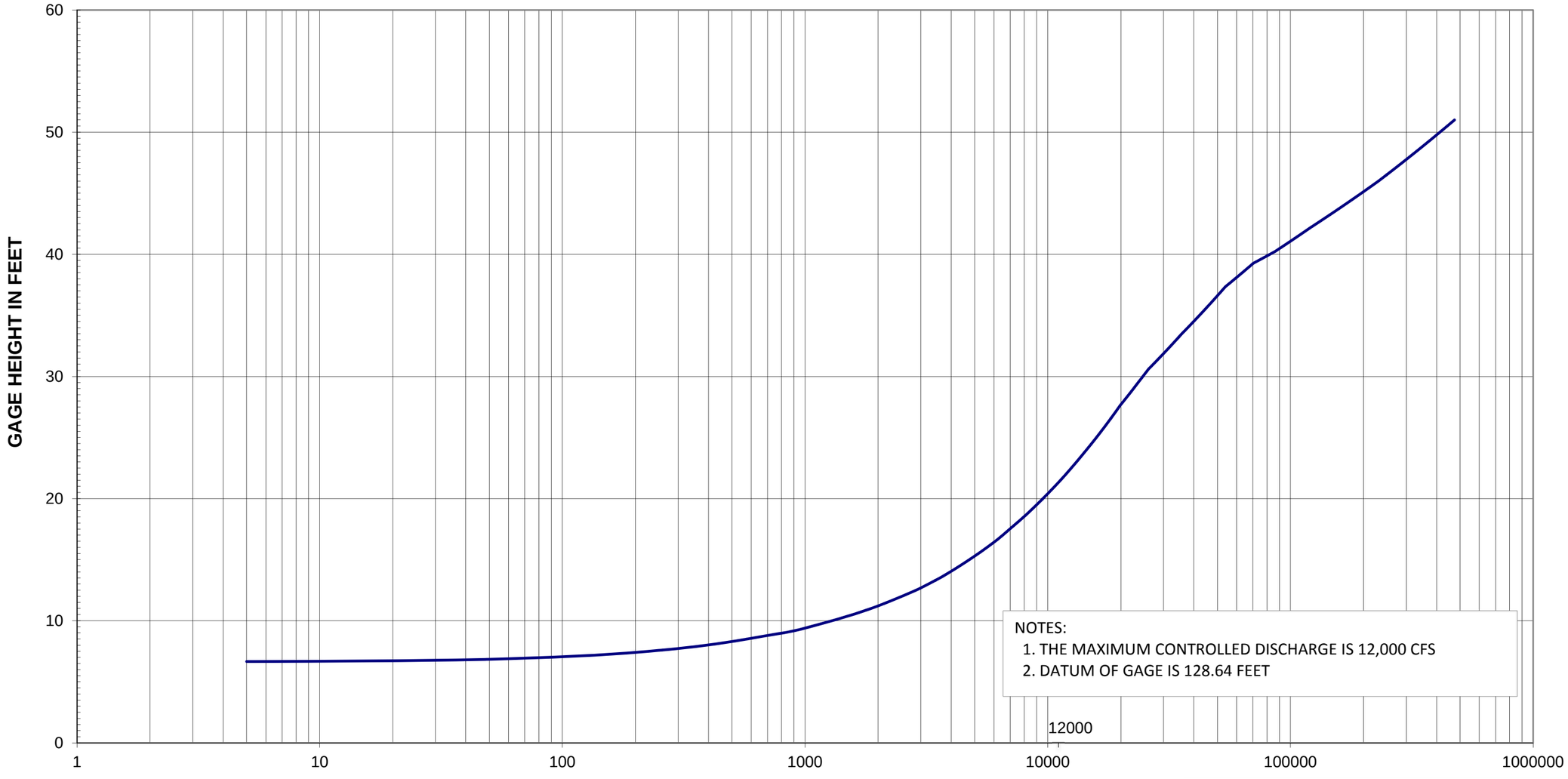
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

RATING CURVE
GUADALUPE RIVER AT GONZALES
USGS GAGE NO. 08173900

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018



DISCHARGE IN CUBIC FEET PER SECOND

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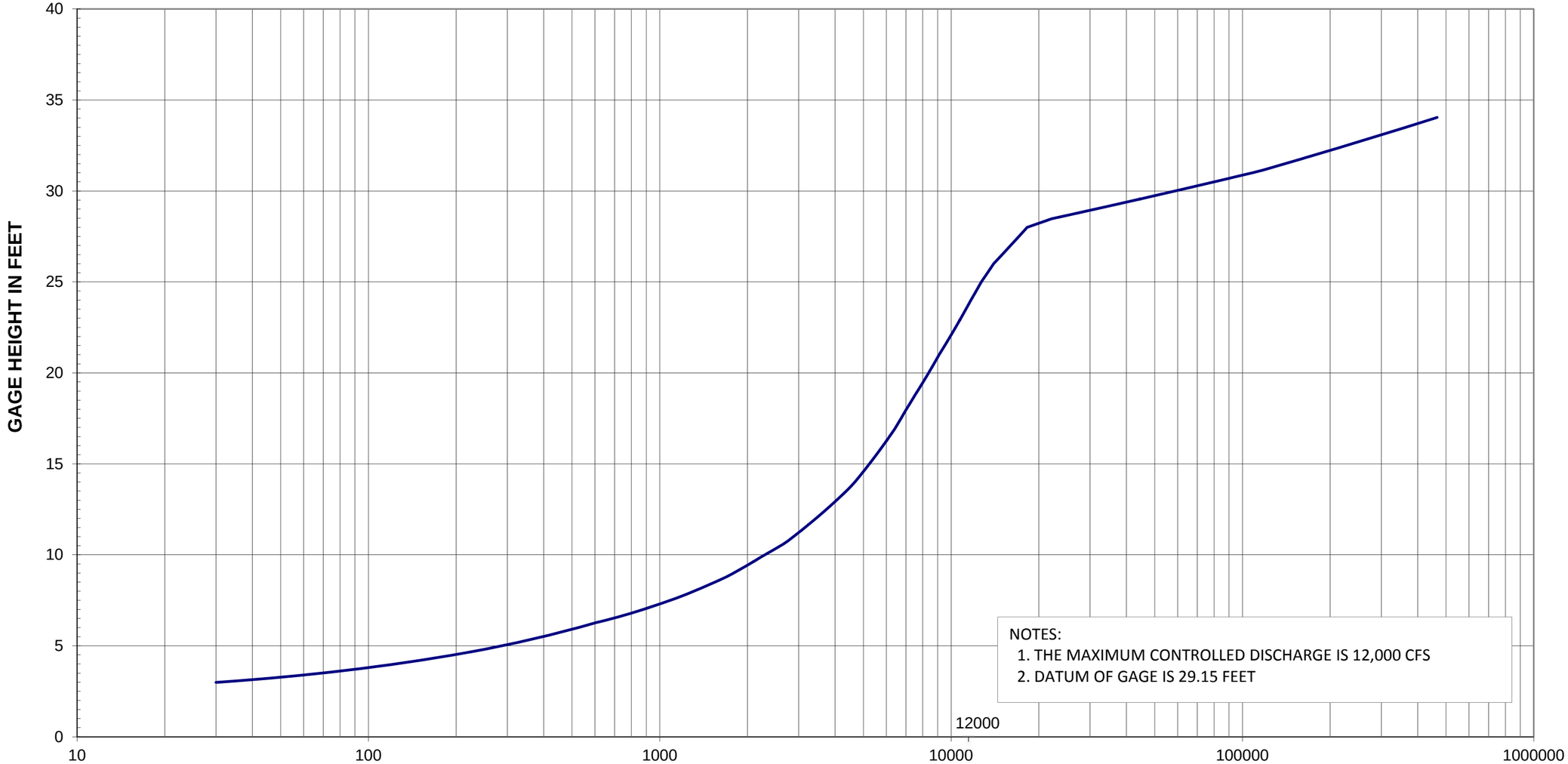
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

RATING CURVE
GUADALUPE RIVER AT CUERO
USGS GAGE NO. 08175800

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



DISCHARGE IN CUBIC FEET PER SECOND

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GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

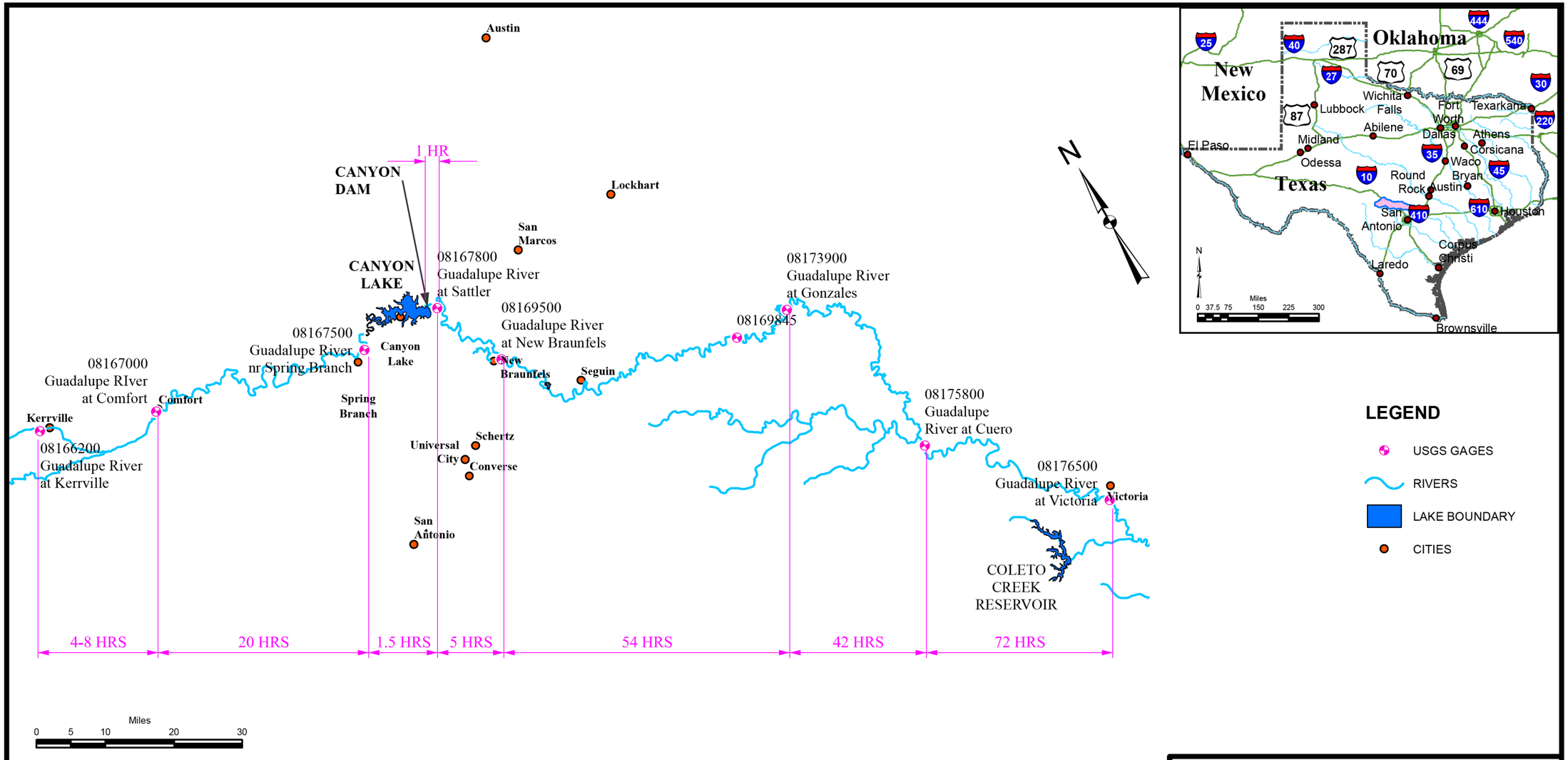
GUADALUPE RIVER

RATING CURVE
GUADALUPE RIVER AT VICTORIA
USGS GAGE NO. 08176500

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

CORPS OF ENGINEERS

U.S. ARMY



LEGEND

- USGS GAGES
- RIVERS
- LAKE BOUNDARY
- CITIES

LIST OF U.S.G.S. GAGES

GAGE ID:	LOCATION:
08167000	GUADALUPE RIVER AT COMFORT, TX
08167500	GUADALUPE RIVER NEAR SPRING BRANCH, TX
08167800	GUADALUPE RIVER AT SATTLER, TX
08169500	GUADALUPE RIVER AT NEW BRAUNFELS, TX
08169845	GUADALUPE RIVER AT CR 143 NEAR GONZALES, TX
08173900	GUADALUPE RIVER AT GONZALES, TX
08175800	GUADALUPE RIVER AT CUERO, TX
08176500	GUADALUPE RIVER AT VICTORIA, TX

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

TRAVEL TIMES FROM GUADALUPE RIVER AT KERRVILLE GAGE TO THE GUADALUPE RIVER AT VICTORIA GAGE

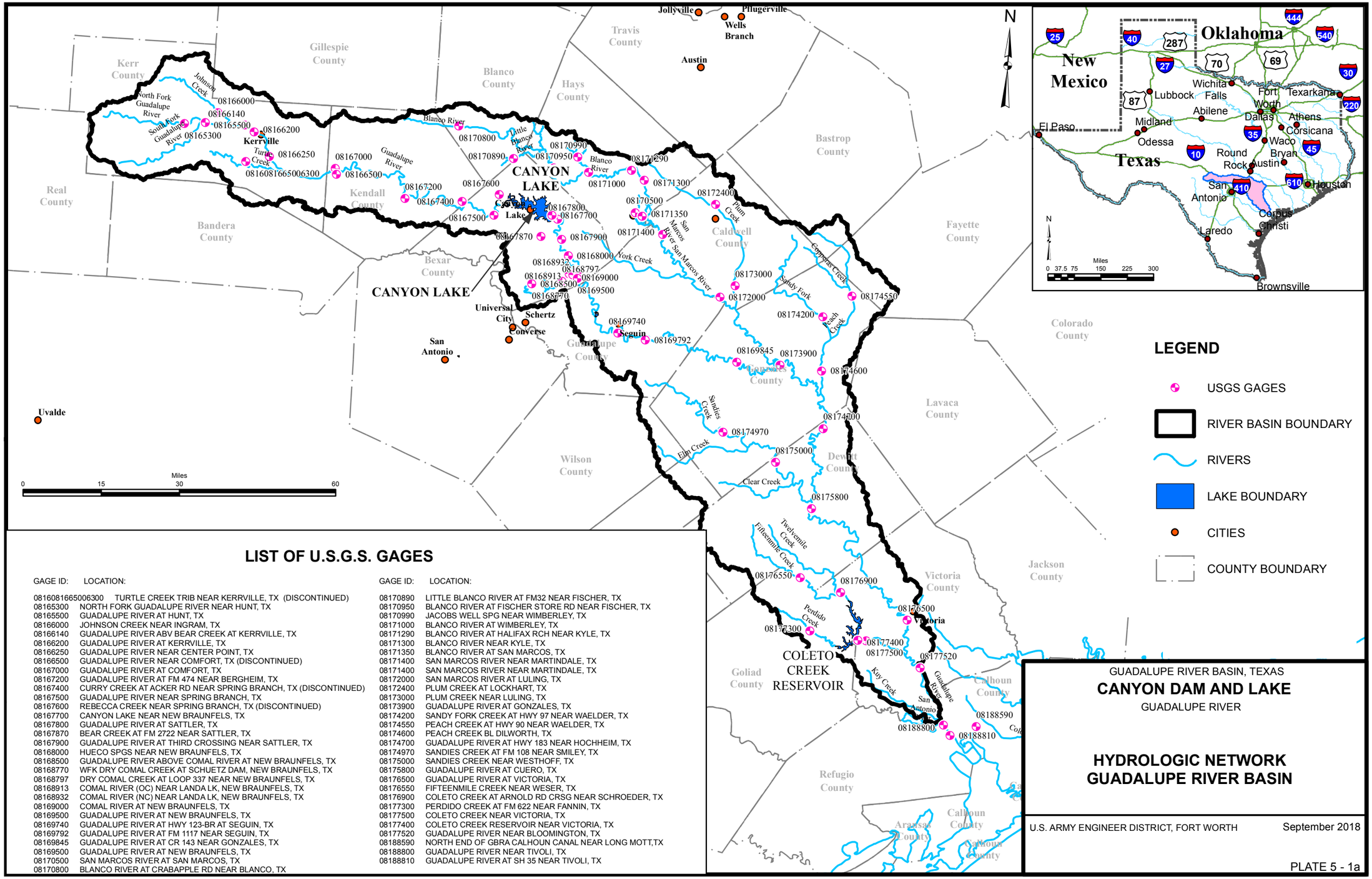
U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 4 - 20

CORPS OF ENGINEERS

U.S. ARMY



LIST OF U.S.G.S. GAGES

GAGE ID:	LOCATION:
0816081665006300	TURTLE CREEK TRIB NEAR KERRVILLE, TX (DISCONTINUED)
08165300	NORTH FORK GUADALUPE RIVER NEAR HUNT, TX
08165500	GUADALUPE RIVER AT HUNT, TX
08166000	JOHNSON CREEK NEAR INGRAM, TX
08166140	GUADALUPE RIVER ABV BEAR CREEK AT KERRVILLE, TX
08166200	GUADALUPE RIVER AT KERRVILLE, TX
08166250	GUADALUPE RIVER NEAR CENTER POINT, TX
08166500	GUADALUPE RIVER NEAR COMFORT, TX (DISCONTINUED)
08167000	GUADALUPE RIVER AT COMFORT, TX
08167200	GUADALUPE RIVER AT FM 474 NEAR BERGHEIM, TX
08167400	CURRY CREEK AT ACKER RD NEAR SPRING BRANCH, TX (DISCONTINUED)
08167500	GUADALUPE RIVER NEAR SPRING BRANCH, TX
08167600	REBECCA CREEK NEAR SPRING BRANCH, TX (DISCONTINUED)
08167700	CANYON LAKE NEAR NEW BRAUNFELS, TX
08167800	GUADALUPE RIVER AT SATTLER, TX
08167870	BEAR CREEK AT FM 2722 NEAR SATTLER, TX
08167900	GUADALUPE RIVER AT THIRD CROSSING NEAR SATTLER, TX
08168000	HUECO SPGS NEAR NEW BRAUNFELS, TX
08168500	GUADALUPE RIVER ABOVE COMAL RIVER AT NEW BRAUNFELS, TX
08168770	WFK DRY COMAL CREEK AT SCHUETZ DAM, NEW BRAUNFELS, TX
08168797	DRY COMAL CREEK AT LOOP 337 NEAR NEW BRAUNFELS, TX
08168913	COMAL RIVER (OC) NEAR LANDA LK, NEW BRAUNFELS, TX
08168932	COMAL RIVER (NC) NEAR LANDA LK, NEW BRAUNFELS, TX
08169000	COMAL RIVER AT NEW BRAUNFELS, TX
08169500	GUADALUPE RIVER AT NEW BRAUNFELS, TX
08169740	GUADALUPE RIVER AT HWY 123-BR AT SEGUIN, TX
08169792	GUADALUPE RIVER AT FM 1117 NEAR SEGUIN, TX
08169845	GUADALUPE RIVER AT CR 143 NEAR GONZALES, TX
08169500	GUADALUPE RIVER AT NEW BRAUNFELS, TX
08170500	SAN MARCOS RIVER AT SAN MARCOS, TX
08170800	BLANCO RIVER AT CRABAPPLE RD NEAR BLANCO, TX

GAGE ID:	LOCATION:
08170890	LITTLE BLANCO RIVER AT FM32 NEAR FISCHER, TX
08170950	BLANCO RIVER AT FISCHER STORE RD NEAR FISCHER, TX
08170990	JACOBS WELL SPG NEAR WIMBERLEY, TX
08171000	BLANCO RIVER AT WIMBERLEY, TX
08171290	BLANCO RIVER AT HALIFAX RCH NEAR KYLE, TX
08171300	BLANCO RIVER NEAR KYLE, TX
08171350	BLANCO RIVER AT SAN MARCOS, TX
08171400	SAN MARCOS RIVER NEAR MARTINDALE, TX
08171400	SAN MARCOS RIVER NEAR MARTINDALE, TX
08172000	SAN MARCOS RIVER AT LULING, TX
08172400	PLUM CREEK AT LOCKHART, TX
08173000	PLUM CREEK NEAR LULING, TX
08173900	GUADALUPE RIVER AT GONZALES, TX
08174200	SANDY FORK CREEK AT HWY 97 NEAR WAELDER, TX
08174550	PEACH CREEK AT HWY 90 NEAR WAELDER, TX
08174600	PEACH CREEK BL DILWORTH, TX
08174700	GUADALUPE RIVER AT HWY 183 NEAR HOCHHEIM, TX
08174970	SANDIES CREEK AT FM 108 NEAR SMILEY, TX
08175000	SANDIES CREEK NEAR WESTHOFF, TX
08175800	GUADALUPE RIVER AT CUERO, TX
08176500	GUADALUPE RIVER AT VICTORIA, TX
08176550	FIFTEENMILE CREEK NEAR WESER, TX
08176900	COLETO CREEK AT ARNOLD RD CRSG NEAR SCHROEDER, TX
08177300	PERDIDO CREEK AT FM 622 NEAR FANNIN, TX
08177500	COLETO CREEK NEAR VICTORIA, TX
08177400	COLETO CREEK RESERVOIR NEAR VICTORIA, TX
08177520	GUADALUPE RIVER NEAR BLOOMINGTON, TX
08188590	NORTH END OF GBRA CALHOUN CANAL NEAR LONG MOTT,TX
08188800	GUADALUPE RIVER NEAR TIVOLI, TX
08188810	GUADALUPE RIVER AT SH 35 NEAR TIVOLI, TX

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

HYDROLOGIC NETWORK GUADALUPE RIVER BASIN

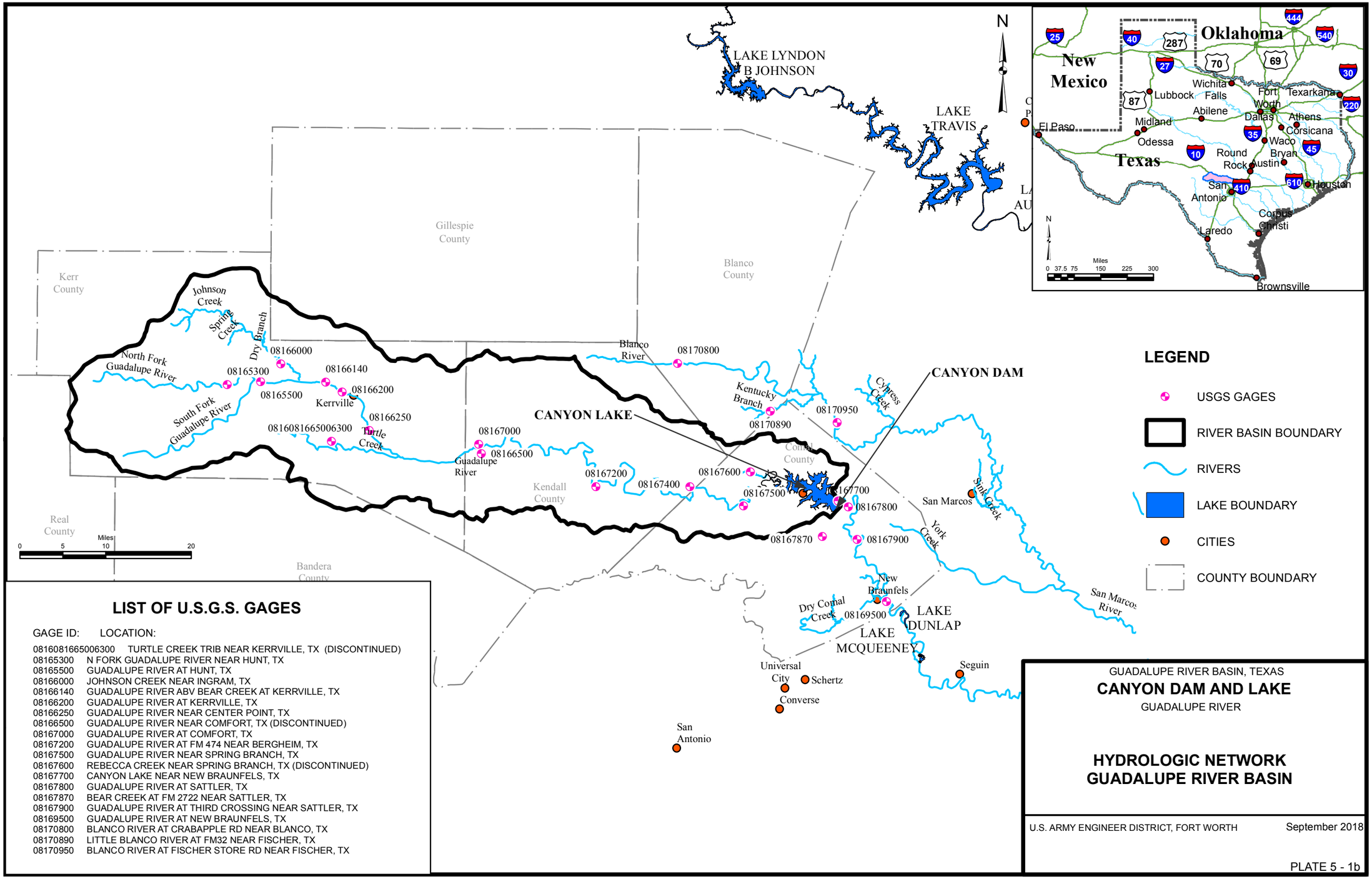
U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 5 - 1a

CORPS OF ENGINEERS

U.S. ARMY



LIST OF U.S.G.S. GAGES

GAGE ID:	LOCATION:
0816081665006300	TURTLE CREEK TRIB NEAR KERRVILLE, TX (DISCONTINUED)
08165300	N FORK GUADALUPE RIVER NEAR HUNT, TX
08165500	GUADALUPE RIVER AT HUNT, TX
08166000	JOHNSON CREEK NEAR INGRAM, TX
08166140	GUADALUPE RIVER ABV BEAR CREEK AT KERRVILLE, TX
08166200	GUADALUPE RIVER AT KERRVILLE, TX
08166250	GUADALUPE RIVER NEAR CENTER POINT, TX
08166500	GUADALUPE RIVER NEAR COMFORT, TX (DISCONTINUED)
08167000	GUADALUPE RIVER AT COMFORT, TX
08167200	GUADALUPE RIVER AT FM 474 NEAR BERGHEIM, TX
08167500	GUADALUPE RIVER NEAR SPRING BRANCH, TX
08167600	REBECCA CREEK NEAR SPRING BRANCH, TX (DISCONTINUED)
08167700	CANYON LAKE NEAR NEW BRAUNFELS, TX
08167800	GUADALUPE RIVER AT SATTLER, TX
08167870	BEAR CREEK AT FM 2722 NEAR SATTLER, TX
08167900	GUADALUPE RIVER AT THIRD CROSSING NEAR SATTLER, TX
08169500	GUADALUPE RIVER AT NEW BRAUNFELS, TX
08170800	BLANCO RIVER AT CRABAPPLE RD NEAR BLANCO, TX
08170890	LITTLE BLANCO RIVER AT FM32 NEAR FISCHER, TX
08170950	BLANCO RIVER AT FISCHER STORE RD NEAR FISCHER, TX

LEGEND

- USGS GAGES
- RIVER BASIN BOUNDARY
- RIVERS
- LAKE BOUNDARY
- CITIES
- COUNTY BOUNDARY

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

HYDROLOGIC NETWORK GUADALUPE RIVER BASIN

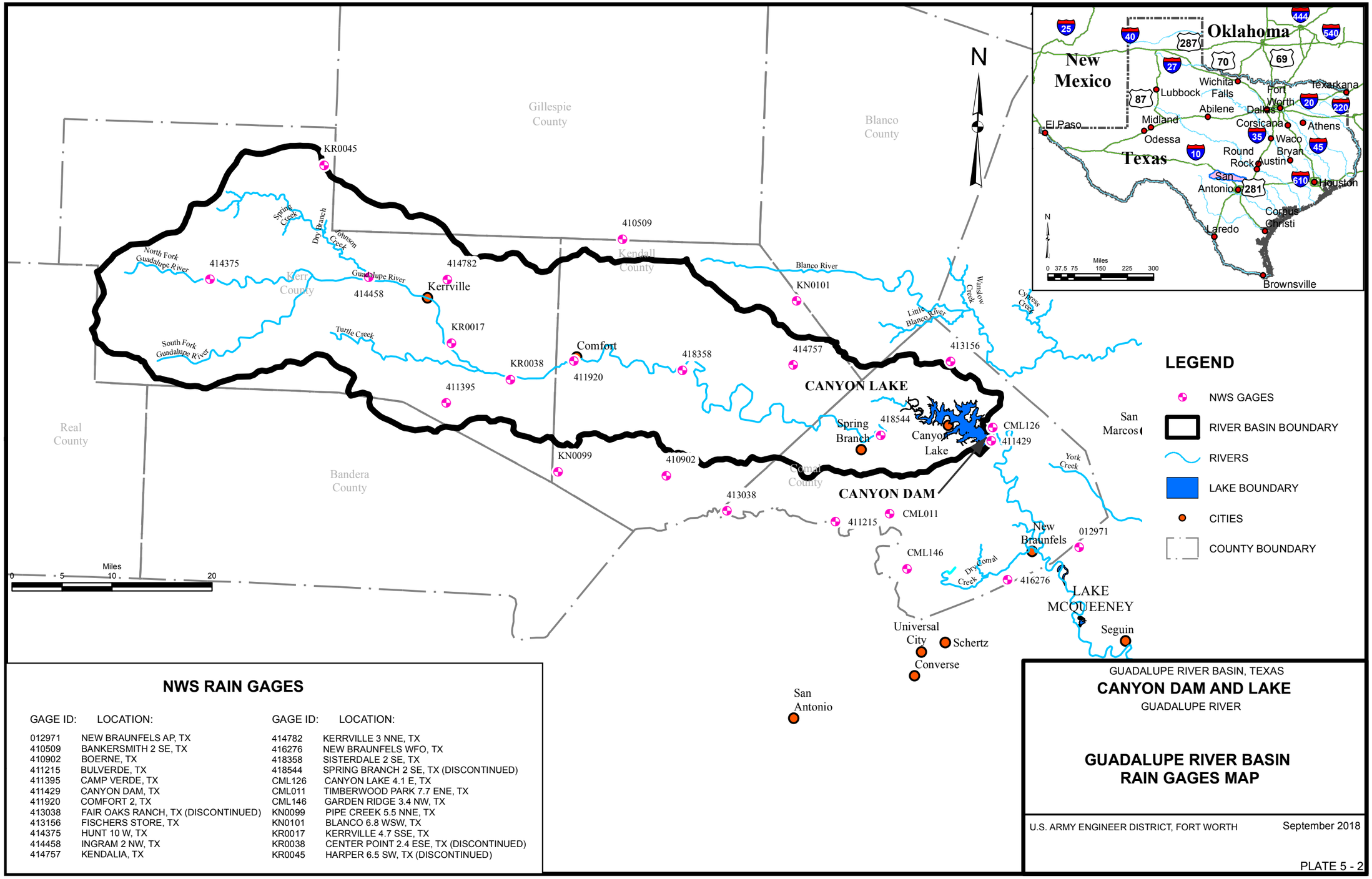
U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 5 - 1b

CORPS OF ENGINEERS

U.S. ARMY



NWS RAIN GAGES

GAGE ID:	LOCATION:	GAGE ID:	LOCATION:
012971	NEW BRAUNFELS AP, TX	414782	KERRVILLE 3 NNE, TX
410509	BANKERSMITH 2 SE, TX	416276	NEW BRAUNFELS WFO, TX
410902	BOERNE, TX	418358	SISTERDALE 2 SE, TX
411215	BULVERDE, TX	418544	SPRING BRANCH 2 SE, TX (DISCONTINUED)
411395	CAMP VERDE, TX	CML126	CANYON LAKE 4.1 E, TX
411429	CANYON DAM, TX	CML011	TIMBERWOOD PARK 7.7 ENE, TX
411920	COMFORT 2, TX	CML146	GARDEN RIDGE 3.4 NW, TX
413038	FAIR OAKS RANCH, TX (DISCONTINUED)	KN0099	PIPE CREEK 5.5 NNE, TX
413156	FISCHERS STORE, TX	KN0101	BLANCO 6.8 WSW, TX
414375	HUNT 10 W, TX	KR0017	KERRVILLE 4.7 SSE, TX
414458	INGRAM 2 NW, TX	KR0038	CENTER POINT 2.4 ESE, TX (DISCONTINUED)
414757	KENDALIA, TX	KR0045	HARPER 6.5 SW, TX (DISCONTINUED)

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

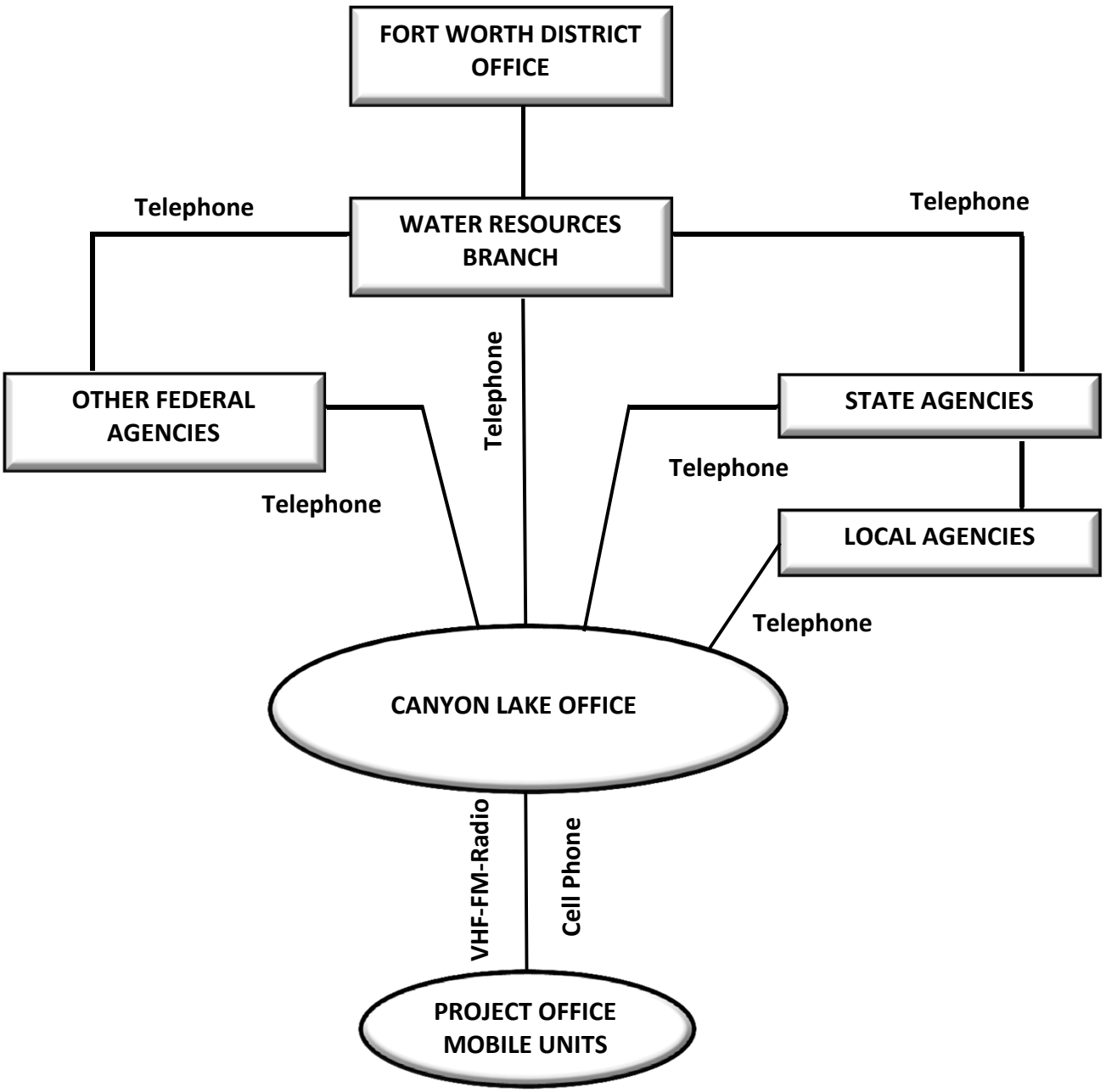
GUADALUPE RIVER

GUADALUPE RIVER BASIN RAIN GAGES MAP

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 5 - 2



GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

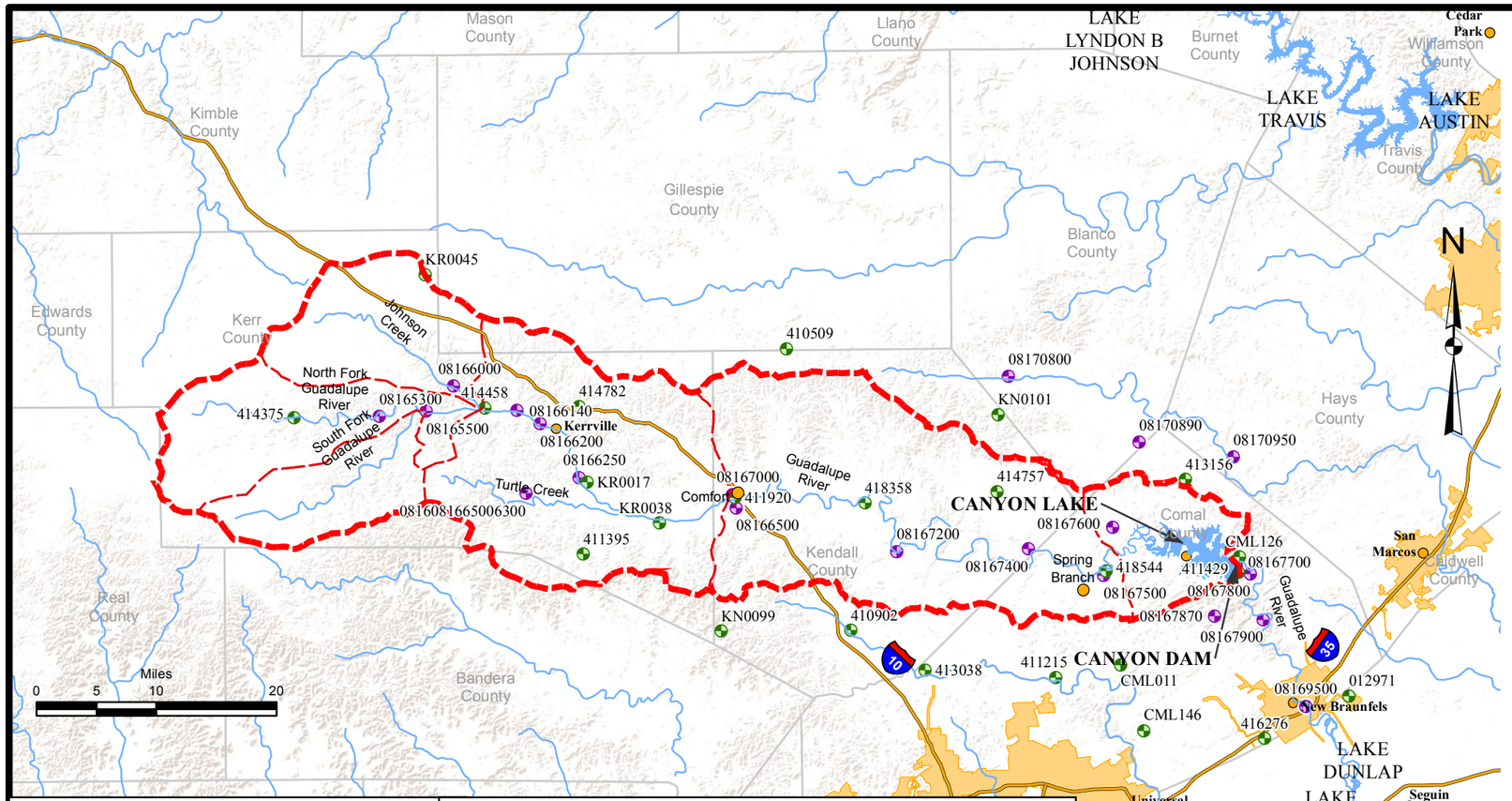
LINES OF COMMUNICATION

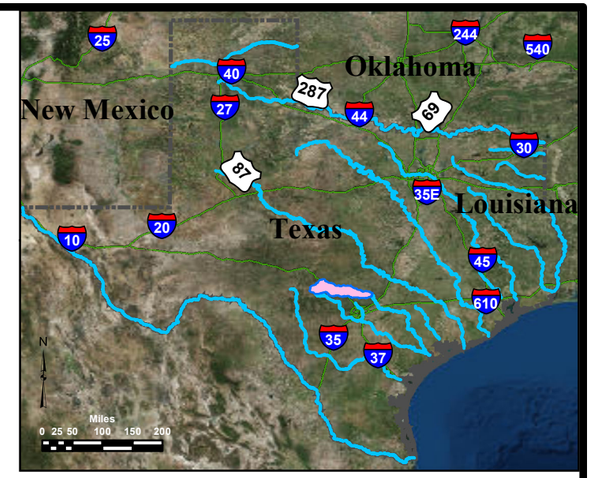
U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 5 - 3

CORPS OF ENGINEERS

U.S. ARMY





LEGEND

- RIVER BASIN BOUNDARY
- SUB BASIN BOUNDARY
- RIVERS
- LAKE BOUNDARY
- NWS GAGES
- USGS GAGES
- CITIES
- INTERSTATE
- METRO AREAS

NWS RAIN GAGES

GAGE ID:	LOCATION:
012971	NEW BRAUNFELS AP, TX
410509	BANKERSMITH 2 SE, TX
410902	BOERNE, TX
411215	BULVERDE, TX
411395	CAMP VERDE, TX
411429	CANYON DAM, TX
411920	COMFORT 2, TX
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414375	HUNT 10 W, TX
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414782	KERRVILLE 3 NNE, TX
416276	NEW BRAUNFELS WFO, TX
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08170950	BLANCO RIVER AT FISCHER STORE RD NEAR FISCHER, TX

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

REAL TIME WATER CONTROL BASE MAP

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018

PLATE 6 - 1

CANYON DAM AND LAKE
NORMAL SCHEDULE FOR LAKE REGULATION

FORECASTED LAKE ELEVATION	DOWNSTREAM CONTROL DISCHARGES	SCHEDULE OF CONTROL OPERATIONS
1. CONSERVATION WATER CONTROL		
a. At or below 909.0	No flood control releases will be made when the lake level is at or below the top of conservation pool (elevation 909.0).	Releases from the conservation storage will be made as instructed by the Fort Worth District Water Management Office at the request of the Guadalupe-Blanco River Authority (GBRA). Releases ranging from about 300 cfs to 600 cfs can be made through the Canyon Lake hydropower turbine.
2. FLOODWATER CONTROL CONDITIONS		
a. Above 909.0 Below 911.0	Flood control releases will normally be made not to exceed the control point capacities shown in Table 7-1.	When the lake elevation is above 909.0 feet (the top of conservation pool), and is forecasted to remain below elevation 911.0 feet (top of flood control pool), flood control releases will be made not to exceed 1,500 cfs.
b. Above 911.0 Below 943.0	Flood control releases will normally be made not to exceed the control point capacities shown in Table 7-1.	When the lake elevation is above 911.0 feet, and is forecasted to remain below elevation 943.0 feet (top of control flood), the suggested flood control releases for this range of elevation will be made not to exceed 5,000 cfs.
c. Above 943.0	All gates will be closed at such time as spillway discharge alone is sufficient to cause the control point capacities listed in Table 7-1 to be met or exceeded.	As the lake elevation rises above top of flood pool and spillway crest elevation 943.0 feet the gated release shall be adjusted as required such that the combination of spillway discharge and gated release does not cause the control point capacities listed in Table 7-1 to be exceeded.
d. Above 943.0 and falling	Gated release, when combined with spillway discharges, should not exceed the control point capacities listed in Table 7-1.	As the lake elevation begins to fall and the spillway flows decrease, the gated releases may be increased as long as the combined gated plus spillway release does not cause the control point capacities shown in Table 7-1 to be exceeded.

TABLE 7-1

Downstream Control Points

River Channel and USGS Gaging Station	Control Capacity (cfs)
Guadalupe River at Sattler	5,000
Guadalupe River above Comal River at New Braunfels	12,000
Guadalupe River at Cuero	12,000
Guadalupe River at Victoria	12,000

TABLE 7-3

Low Flood Pool Release Guidance

Pool Elevation Range (ft)	Flood Pool Range (%)	Release Rates* (cfs)
909.0 – 909.5	0.0 – 1.2	300**
909.5 – 910.0	1.2 – 2.4	300 – 600***
910.0 – 911.0	2.4 – 4.7	600 – 1100

*Desired rate of release will vary with prevailing rates of inflow, lake evaporation, and water supply withdrawals. General objective is to evacuate from 4.7% to 2.4% of the flood pool in about one week, from 2.4% to 1.2% the following week, then from 1.2% to top of conservation pool (909.0) over an additional two to three week period.
**Minimum turbine release.
***Maximum turbine release.

GUADALUPE RIVER BASIN, TEXAS
CANYON DAM AND LAKE
GUADALUPE RIVER

NORMAL REGULATION PLAN FOR FLOOD CONTROL

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 7 - 1

CANYON DAM AND LAKE
EMERGENCY REGULATION PLAN
INSTRUCTIONS TO LAKE MANAGER FOR USE WHEN COMMUNICATIONS WITH DISTRICT OFFICE FAIL

LAKE STAGE	LAKE CONDITIONS	OPERATION
A. Lake elevation at or below elevation 909.0	Rising, Standing, or Falling	Continue the releases from the conservation pool as previously instructed by Fort Worth District Water Management Office.
B. Lake elevation between 909.0 and 911.0	Rising, Standing, or Falling	Maintain releases in effect at the time communications was lost. The Lake Manager will initiate gate closing operations as soon as one of the following conditions occurs: 1. Should the Lake Manager have knowledge of pending flood condition on the Guadalupe River below the project, or 2. Two or more inches of rain has been recorded at the dam in a two hour period or less, or 3. Six hours of time has elapsed after losing communications. Close all gates and leave closed until communications have been restored with the Fort Worth District Water Management Office.
C. Lake elevation between 911.0 and 943.0	Rising, Standing, or Falling	
D. Lake elevation above 943.0	Rising, Standing, or Falling	

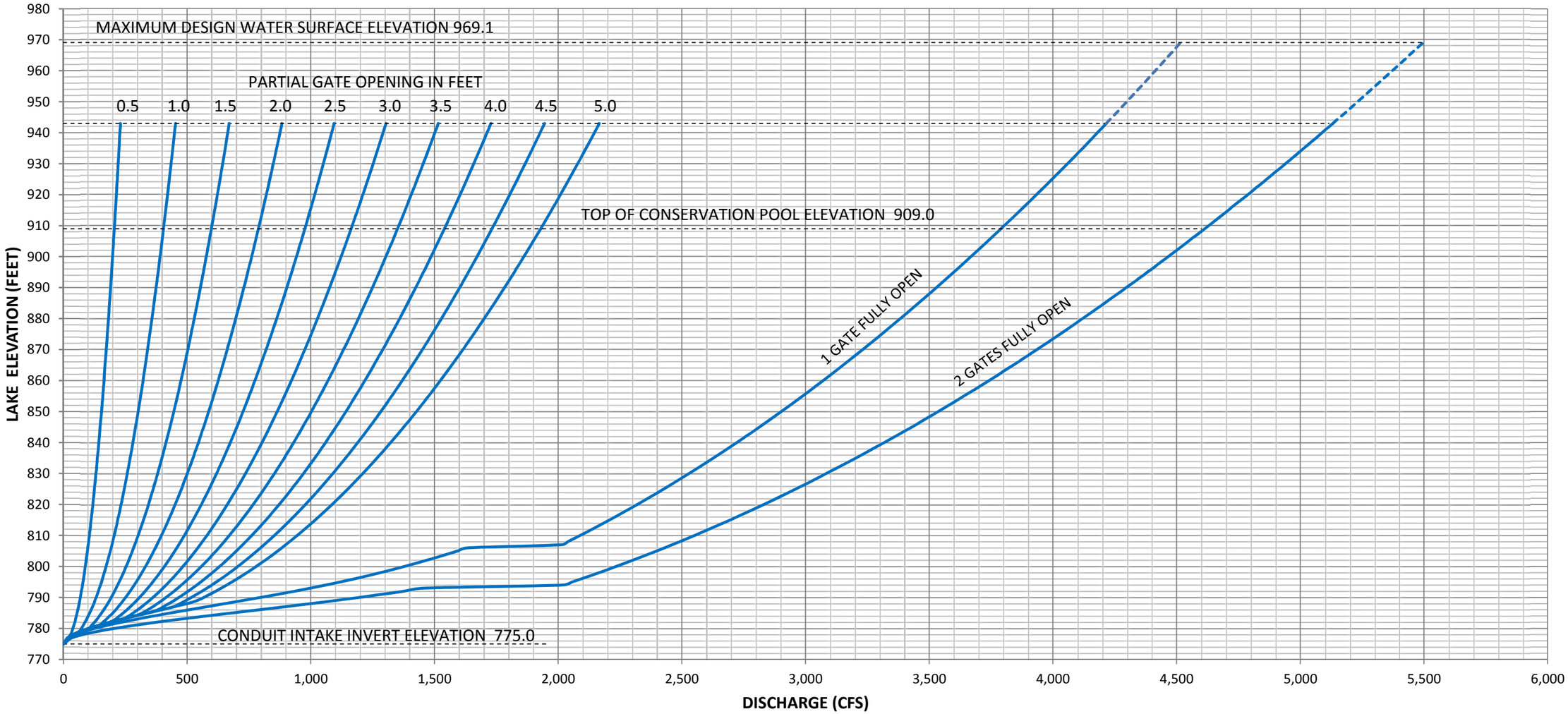
Note: Gate changes are limited to a maximum rate of one-half gate-foot per half hour. Once the gates have been closed, they will remain closed until communications have been restored with the Fort Worth Distrcit Water Management Office.

GUADALUPE RIVER BASIN, TEXAS
CANYON DAM AND LAKE
GUADALUPE RIVER

EMERGENCY REGULATION PLAN FOR CONSERVATION AND FLOOD CONTROL OPERATIONS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

CORPS OF ENGINEERS U.S. ARMY



1. . THE FLOOD CONTROL OUTLET WORKS CONSISTS OF SINGLE 9 FEET 4 INCH STEEL LINED DIAMETER CONDUIT CONTROLLED BY 2 - 5.67' X 10' GATES.

2. FOR PARTIAL GATE OPERATION WITH TWO GATES, THE TOTAL DISCHARGE THROUGH TWO GATES IS EQUAL TO THE SUM OF THE DISCHARGE THROUGH EACH GATE.

3. ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF

GUADALUPE RIVER BASIN, TEXAS

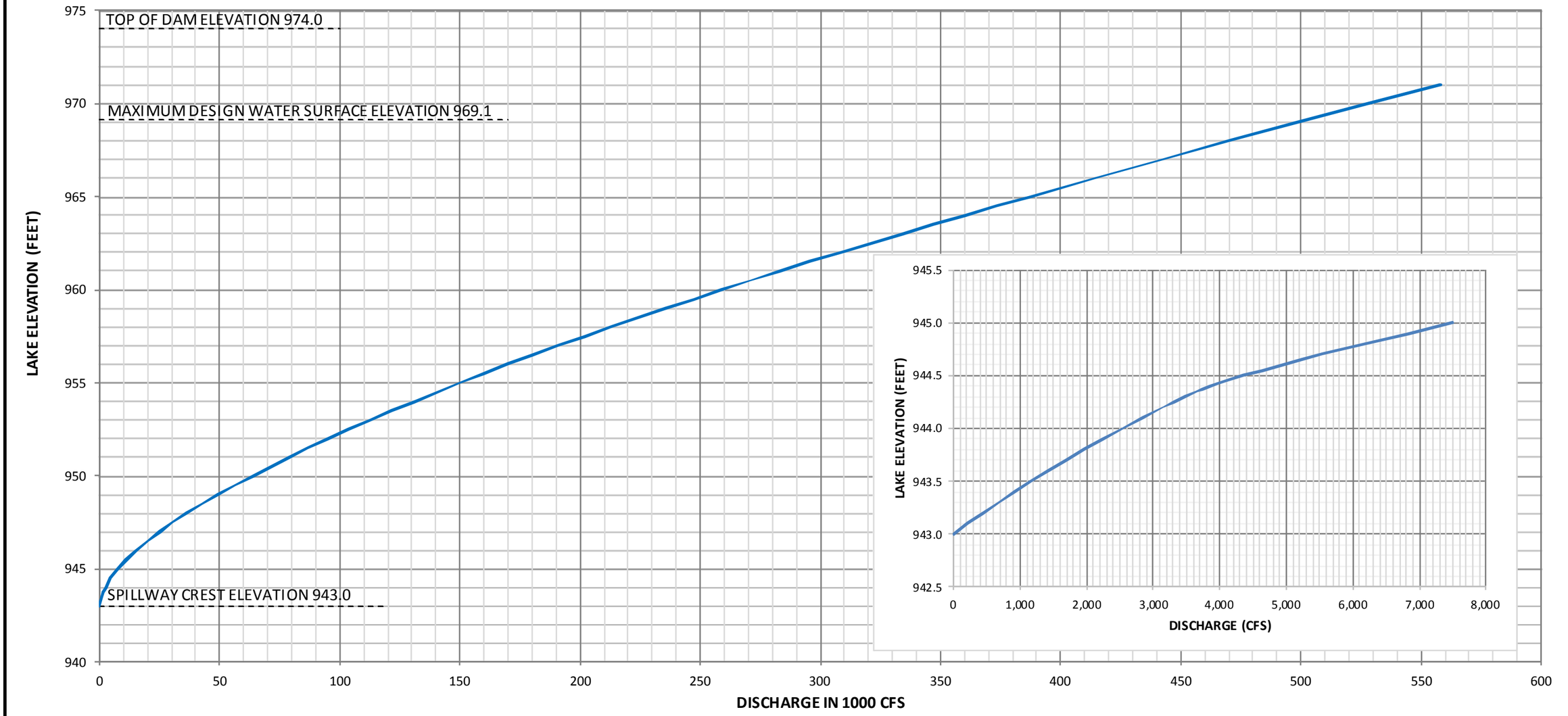
CANYON DAM AND LAKE

GUADALUPE RIVER

OUTLET WORKS RATING CURVES

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 7 - 3



THE SPILLWAY IS AN UNCONTROLLED, BROADCRESTED WEIR. WEIR LENGTH = 1,260 FEET.

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 FOR CANYON DAM AND LAKE IS: NGVD29 + 0.3 FEET = NAVD88.

GUADALUPE RIVER BASIN, TEXAS

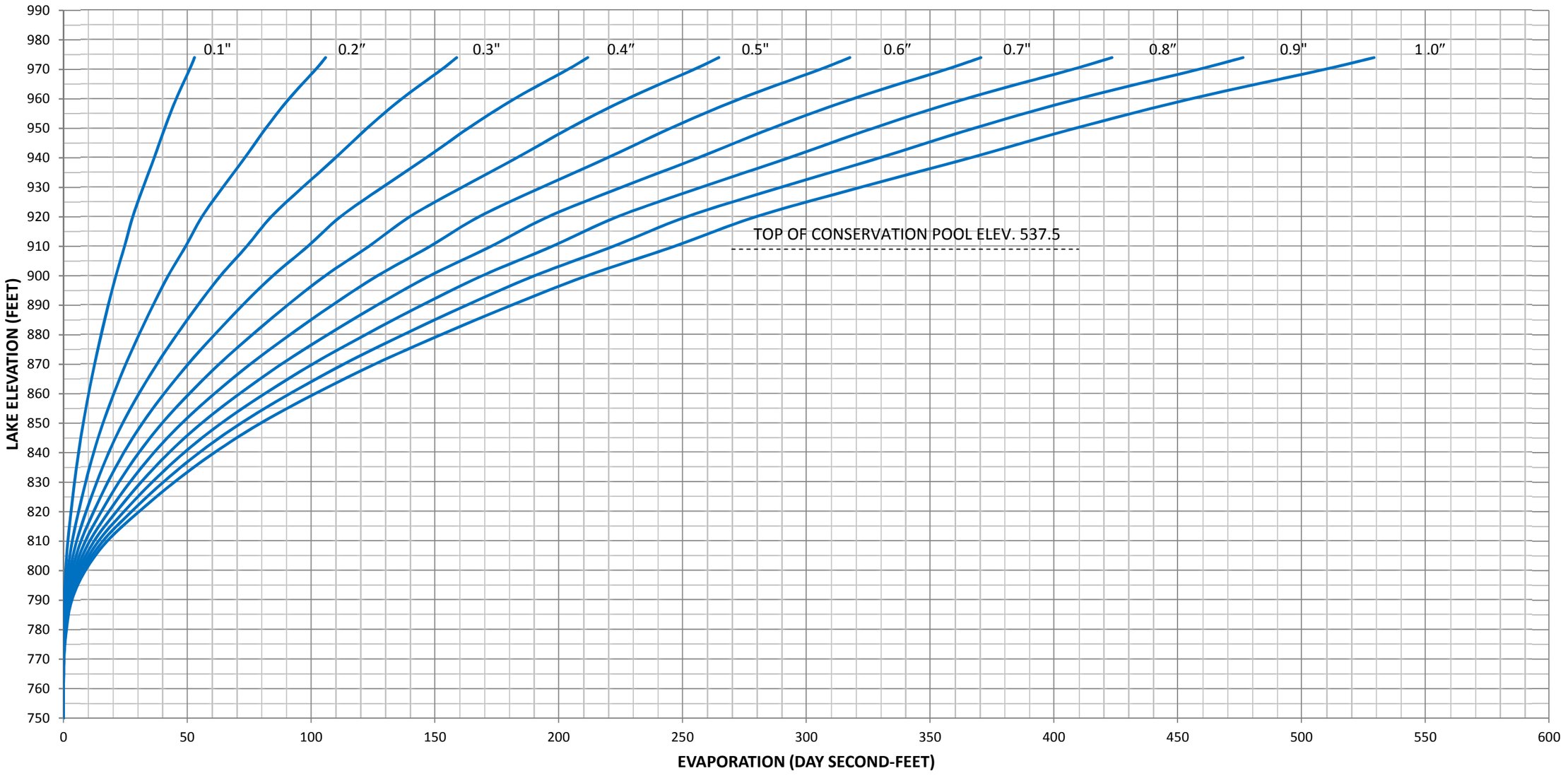
CANYON DAM AND LAKE

GUADALUPE RIVER

SPILLWAY RATING CURVE

U.S. ARMY ENGINEER DISTRICT, FORT WORTH

September 2018



ONE DAY SECOND-FEET = 1.9835 ACRE FEET

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 FOR CANYON DAM AND LAKE IS: NGVD29 + 0.3 FEET = NAVD88

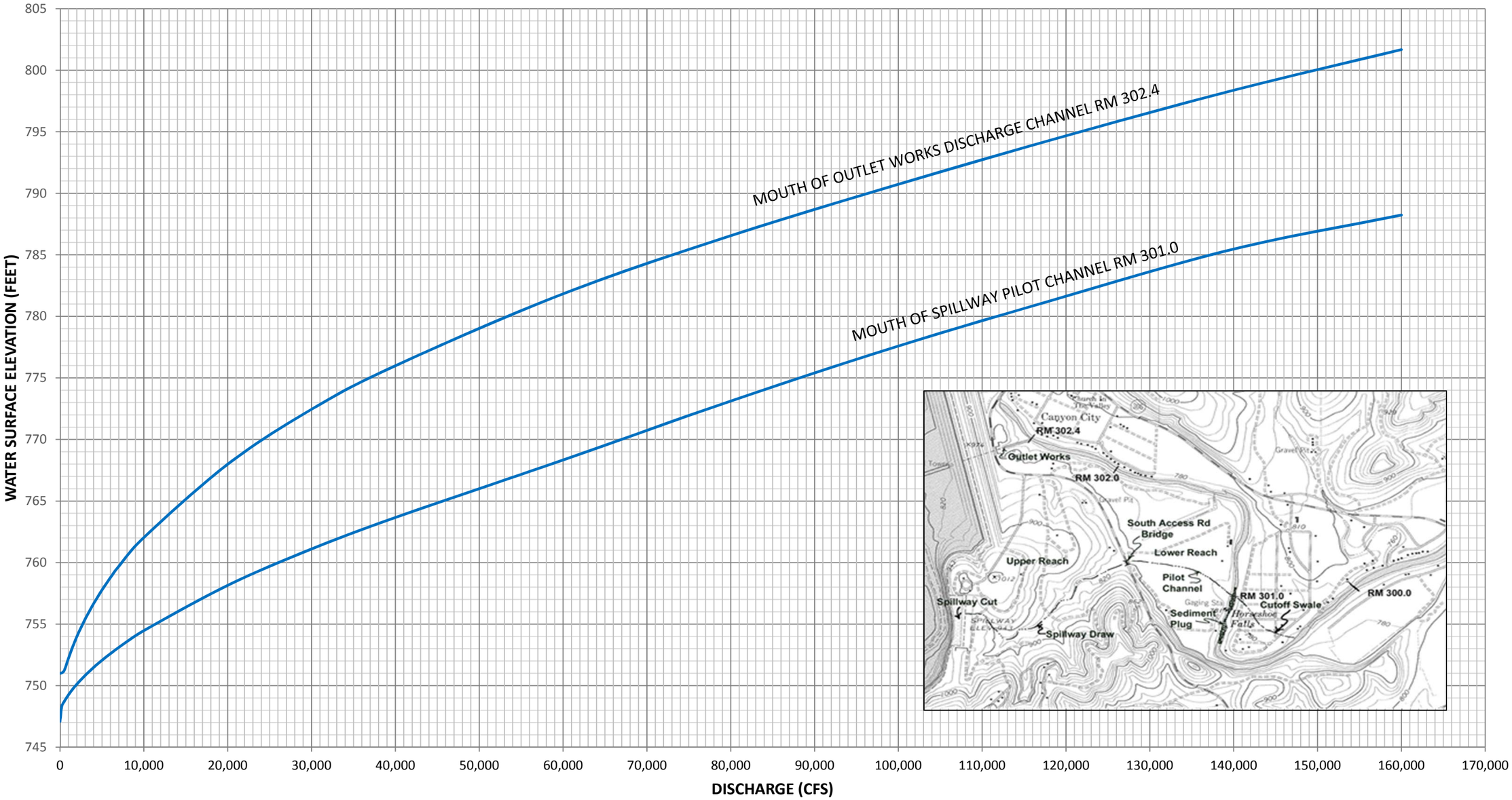
GUADALUPE RIVER BASIN, TEXAS

GUADALUPE DAM AND LAKE

GUADALUPE RIVER

LAKE EVAPORATION CURVES

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018



1. TAILWATER CURVED DEVELOPLED FROM 2003 GUADALUPE RIVER BACKWATER MODEL.

2. ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 FOR CANYON DAM AND LAKE IS: NGVD29 + 0.3 FEET = NAVD88

GUADALUPE RIVER BASIN, TEXAS

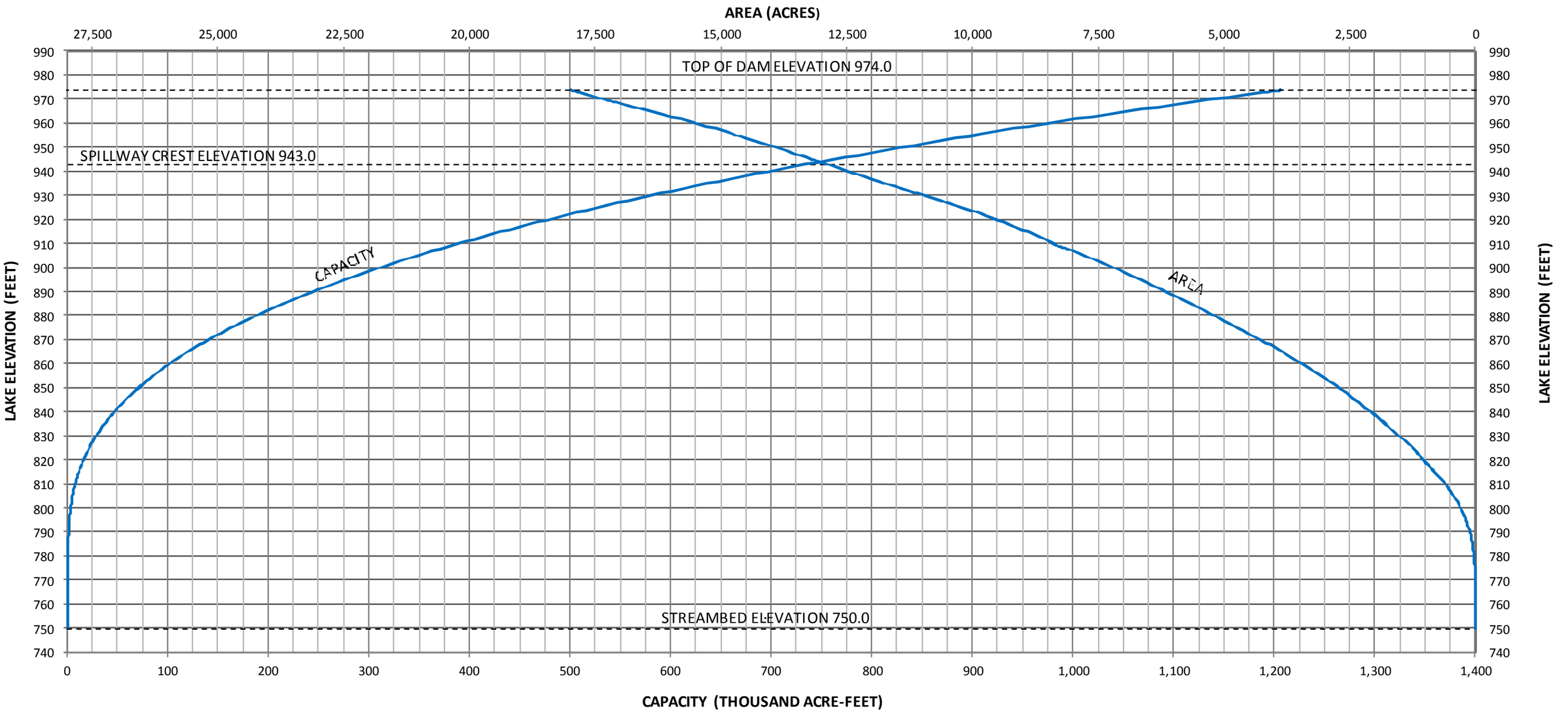
CANYON DAM AND LAKE

GUADALUPE RIVER

TAILWATER RATING CURVES

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 7 -6



LEWISVILLE LAKE VOLUMETRIC SURVEY PERFORMED BY THE TEXAS WATER DEVELOPMENT BOARD IN 2002.

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 FOR CANYON DAM AND LAKE IS: NGVD29 + 0.3 FEET = NAVD88

GUADALUPE RIVER BASIN, TEXAS

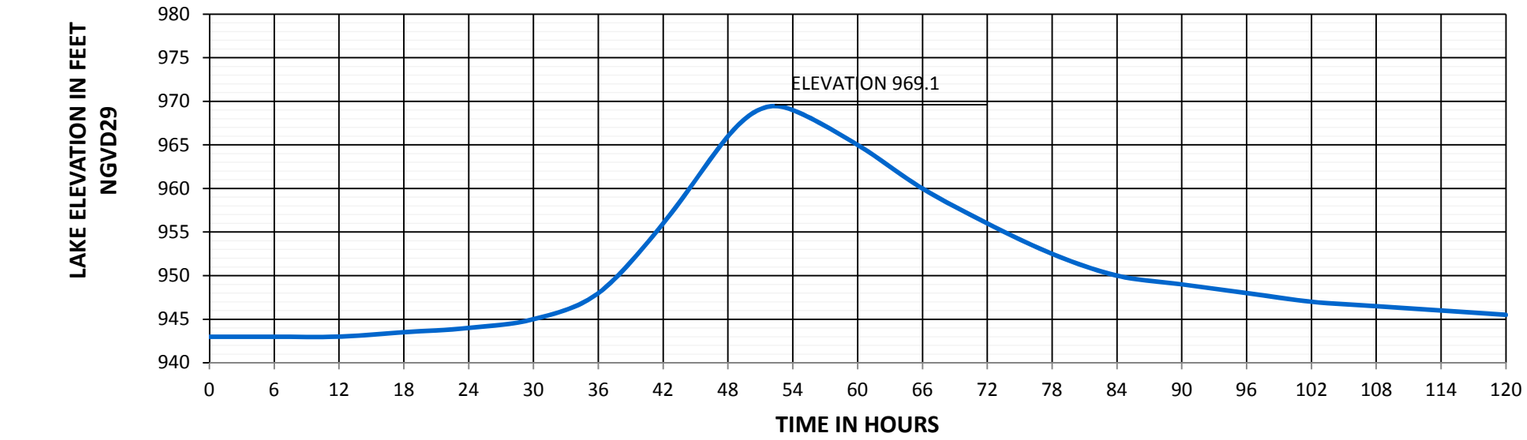
CANYON DAM AND LAK

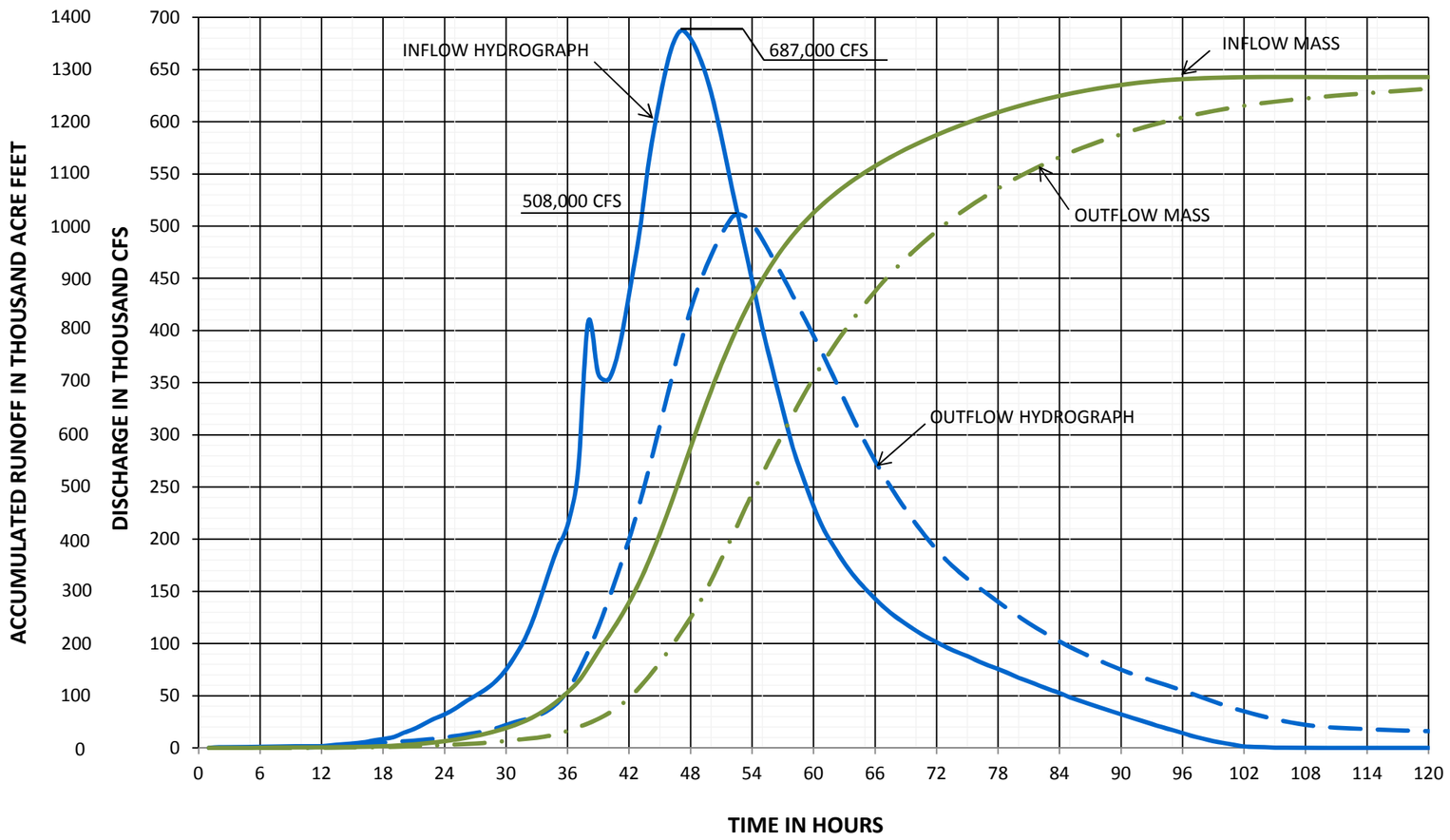
GUADALUPE RIVER

AREA AND CAPACITY CURVI

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

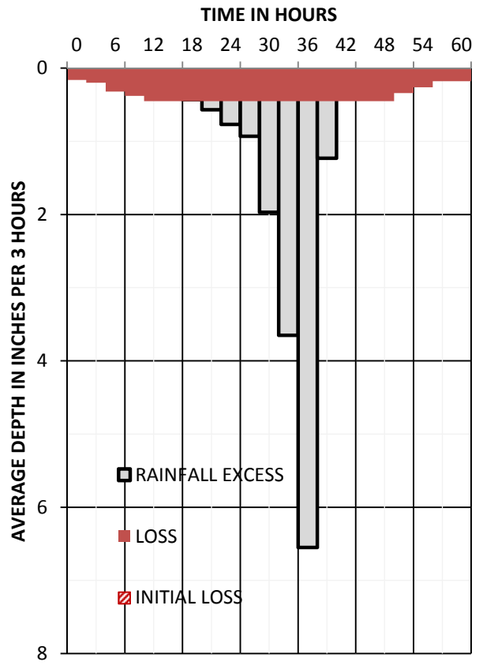
PLATE 7 - 7





HYETOGRAPH (INCHES)

RAINFALL TOTAL----------	24.50
LOSS TOTAL----------	7.69
RAINFALL - EXCESS TOTAL----------	16.81
INFILTRATION INDEX (F.A.V.G.) (IN/HR)-----	0.15



NOTE: DATA IS FROM 1959 "DESIGN MEMORANDUM NO. 12 ON CANYON RESERVOIR, HYDROLOGY (REVISED), GUADALUPE RIVER, TEXAS".

GUADALUPE RIVER BASIN, TEXAS

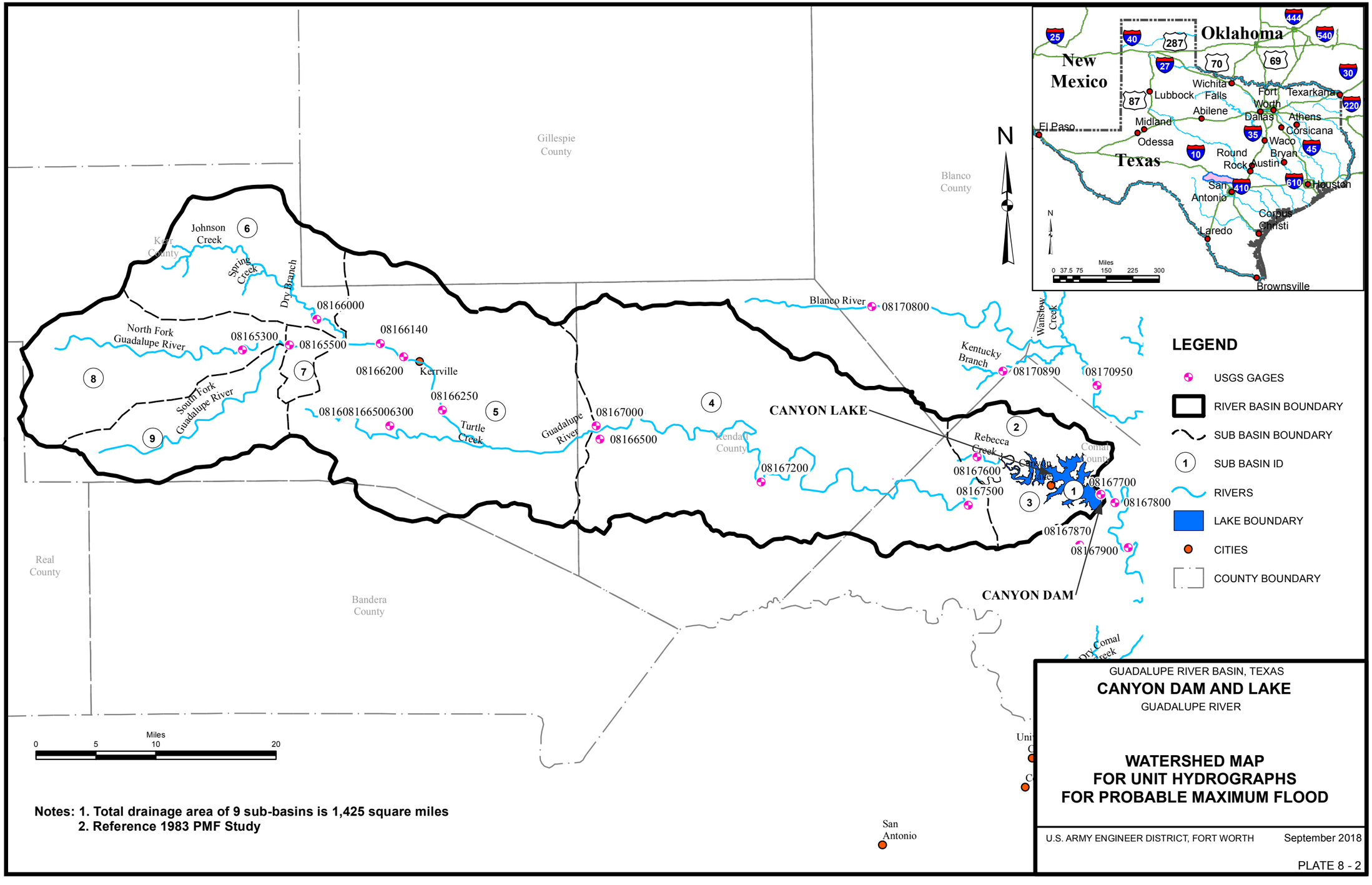
CANYON DAM AND LAKE

GUADALUPE RIVER

SPILLWAY DESIGN FLOOD

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

PLATE 8 - 1



Notes: 1. Total drainage area of 9 sub-basins is 1,425 square miles
2. Reference 1983 PMF Study

GUADALUPE RIVER BASIN, TEXAS

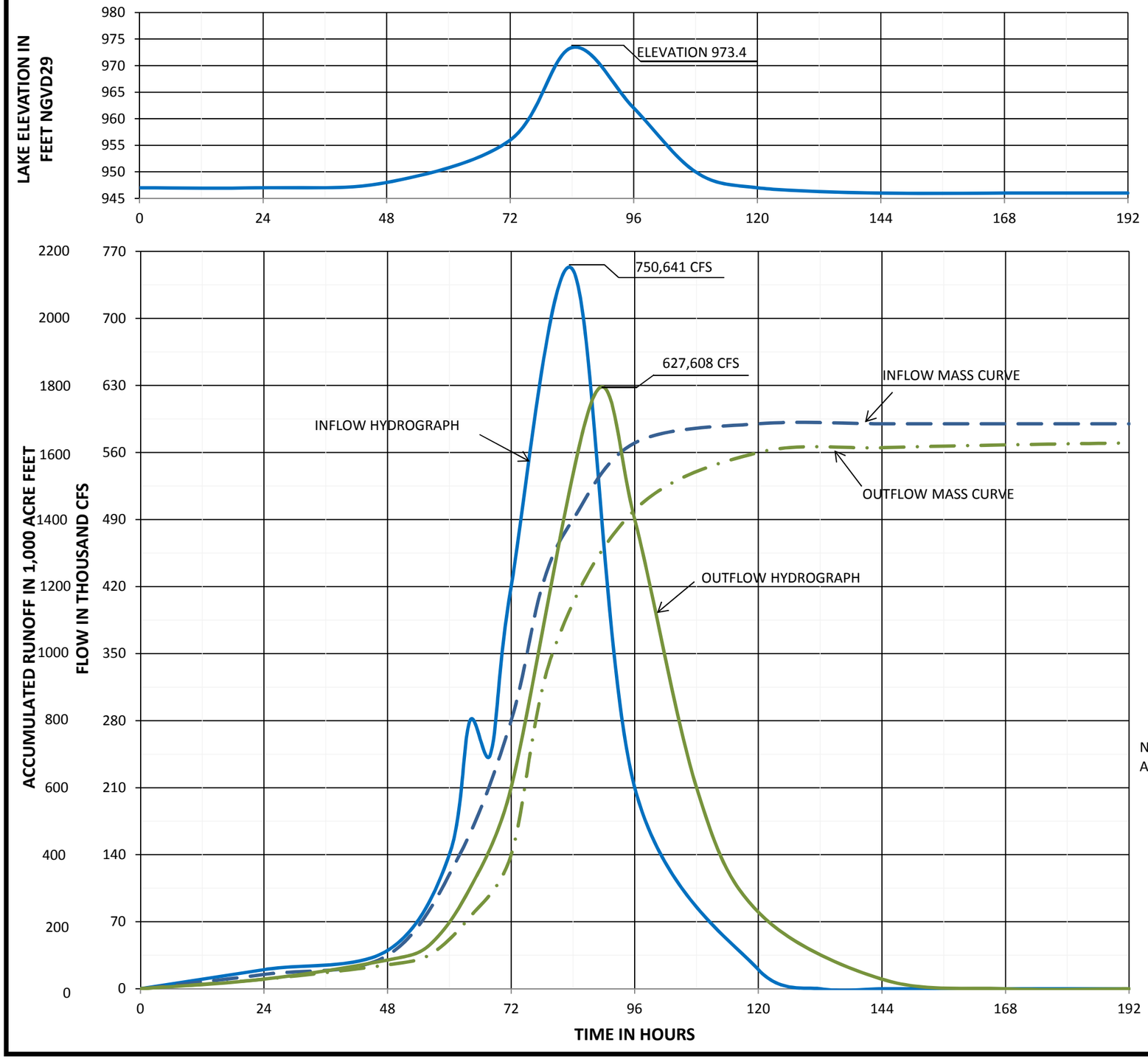
CANYON DAM AND LAKE

GUADALUPE RIVER

WATERSHED MAP FOR UNIT HYDROGRAPHS FOR PROBABLE MAXIMUM FLOOD

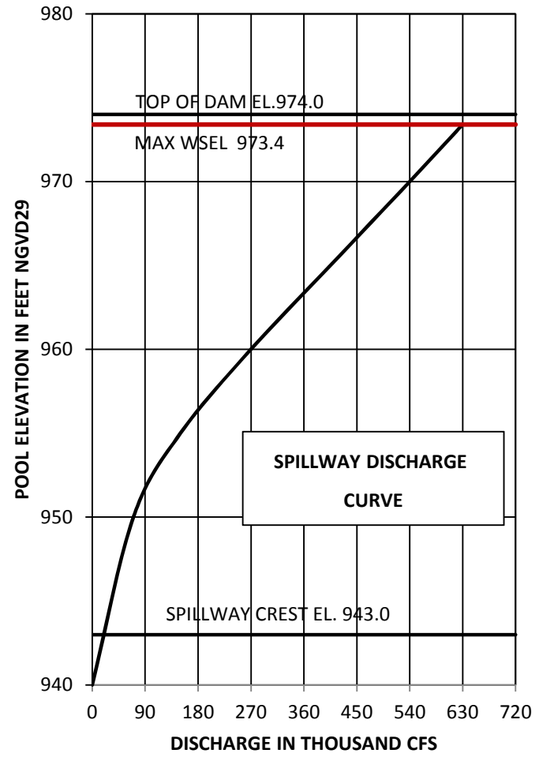
U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

PLATE 8 - 2



HYETOGRAPH (INCHES)

RAINFALL	34.56
LOSS	11.56
RAINFALL - EXCESS	23.00
INITIAL LOSS	1.00
INFILTRATION INDEX (F.A.V.G.) (IN/HR)	0.15



NOTE: FROM "CANYON LAKE, GUADALUPE RIVER, TEXAS, DAM SAFETY ASSURANCE STUDY, HYDROLOGY AND HYDRAULICS, MARCH 1983".

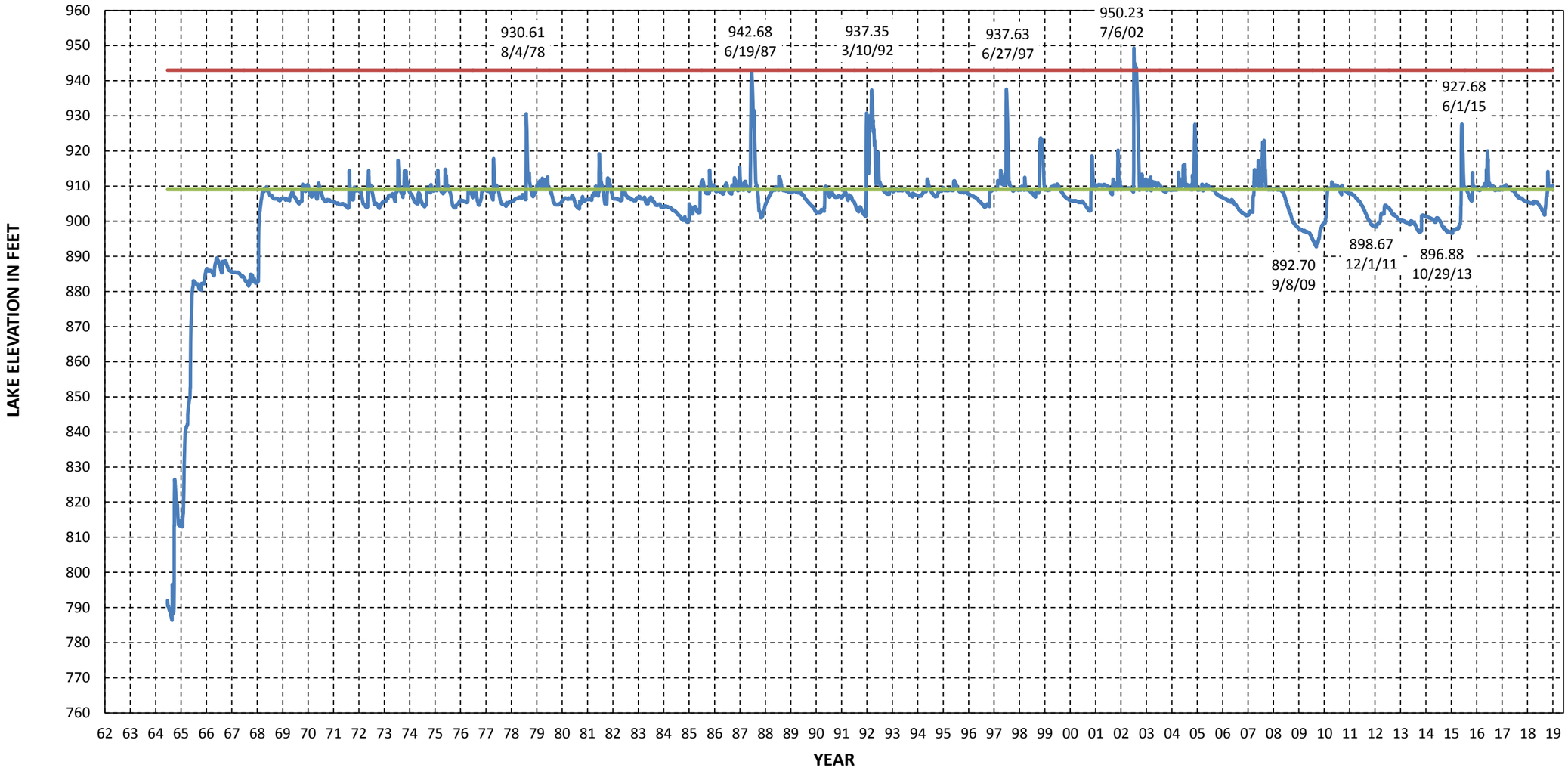
GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

PROBABLE MAXIMUM FLOOD INFLOW-OUTFLOW HYDROGRAPHS

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018



LAKE ELEVATION

SPILLWAY CREST ELEVATION 943.0

TOP OF CONSERVATION POOL ELEVATION 909.0

DELIBERATE IMPOUNDMENT BEGAN: 06/16/1964

RECORD LAKE ELEVATION AND DATE: 950.23 NGVD29, 07/06/2002

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 IS: NGVD29 + 0.3 FEET = NAVD88 FOR CANYON DAM AND LAKE.

GUADALUPE RIVER BASIN, TEXAS

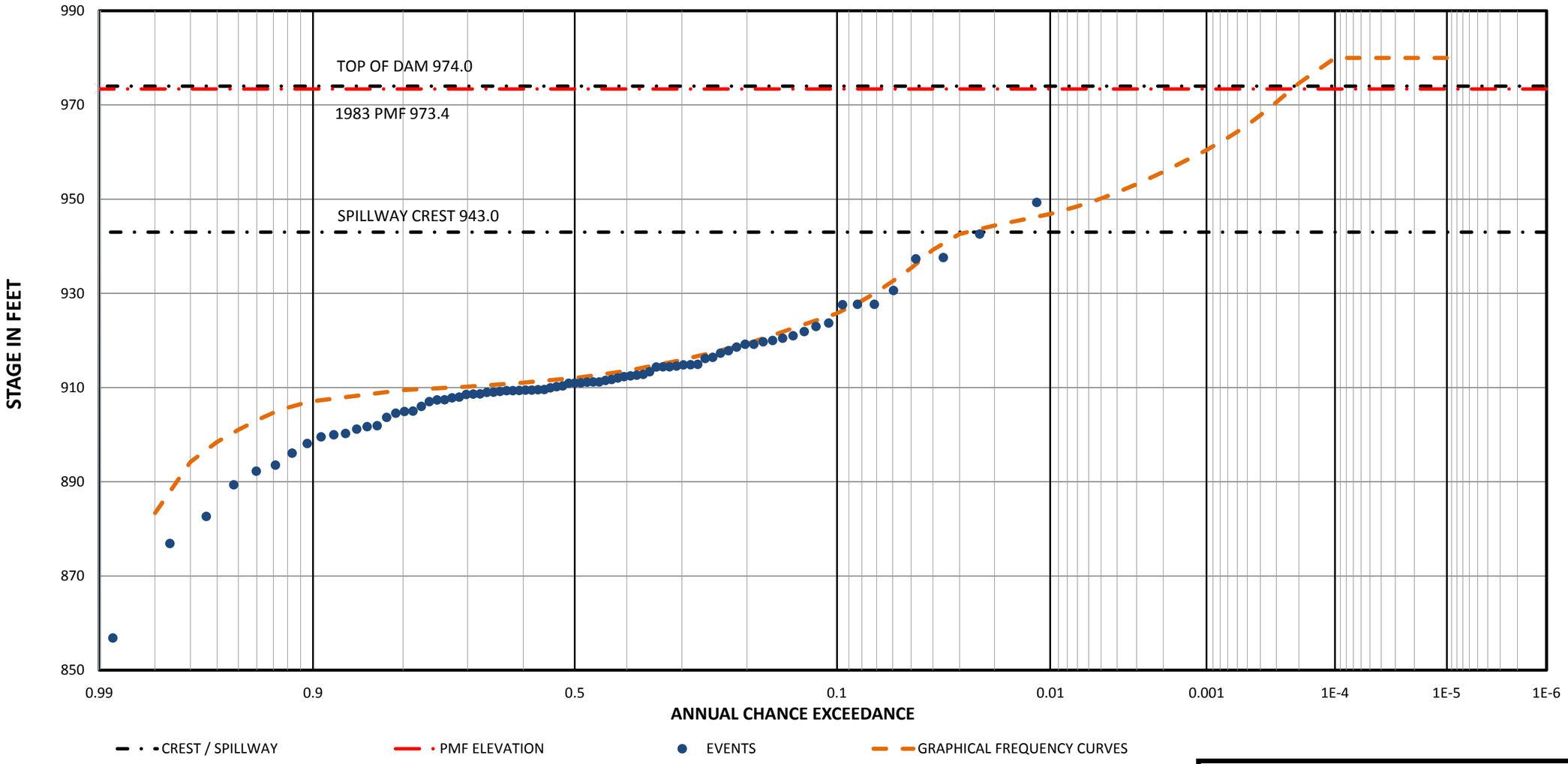
CANYON DAM AND LAKE

GUADALUPE RIVER

PERIOD OF RECORD LAKE LEVEL

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

CANYON DAM STAGE FREQUENCY



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GUADALUPE RIVER BASIN, TEXAS

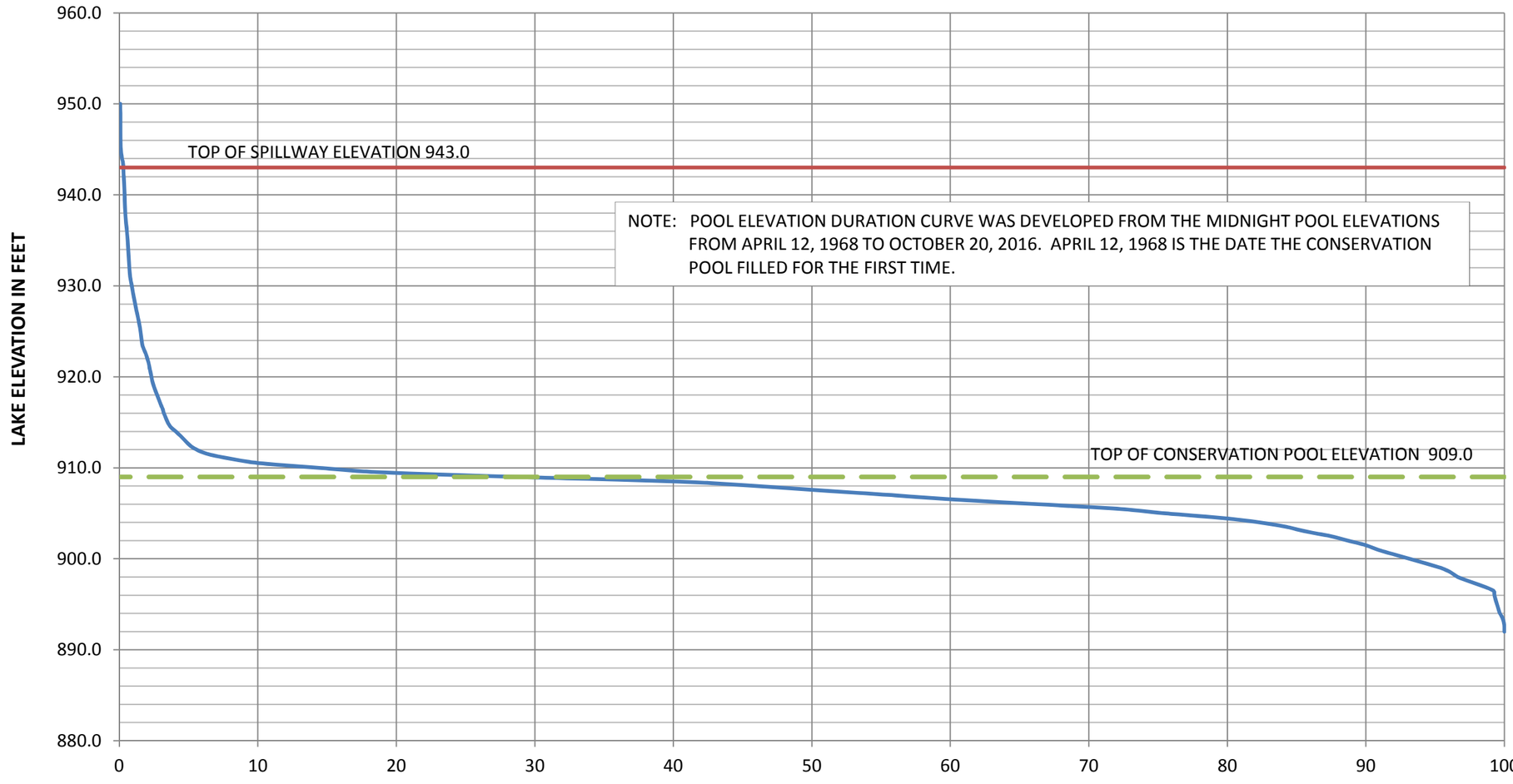
CANYON DAM AND LAKE

GUADALUPE RIVER

ANNUAL PEAK ELEVATION FREQUENCY

U.S. ARMY ENGINEER DISTRICT, FORT WORTH — September 2018

CANYON LAKE



NOTE: POOL ELEVATION DURATION CURVE WAS DEVELOPED FROM THE MIDNIGHT POOL ELEVATIONS FROM APRIL 12, 1968 TO OCTOBER 20, 2016. APRIL 12, 1968 IS THE DATE THE CONSERVATION POOL FILLED FOR THE FIRST TIME.

ALL ELEVATIONS REFERRED TO ON THIS PLATE, UNLESS NOTED OTHERWISE, ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE DATUM CONVERSION FROM NGVD29 TO NAVD88 IS: NGVD29 + 0.3 FEET = NAVD88 FOR CANYON DAM AND LAKE.

GUADALUPE RIVER BASIN, TEXAS

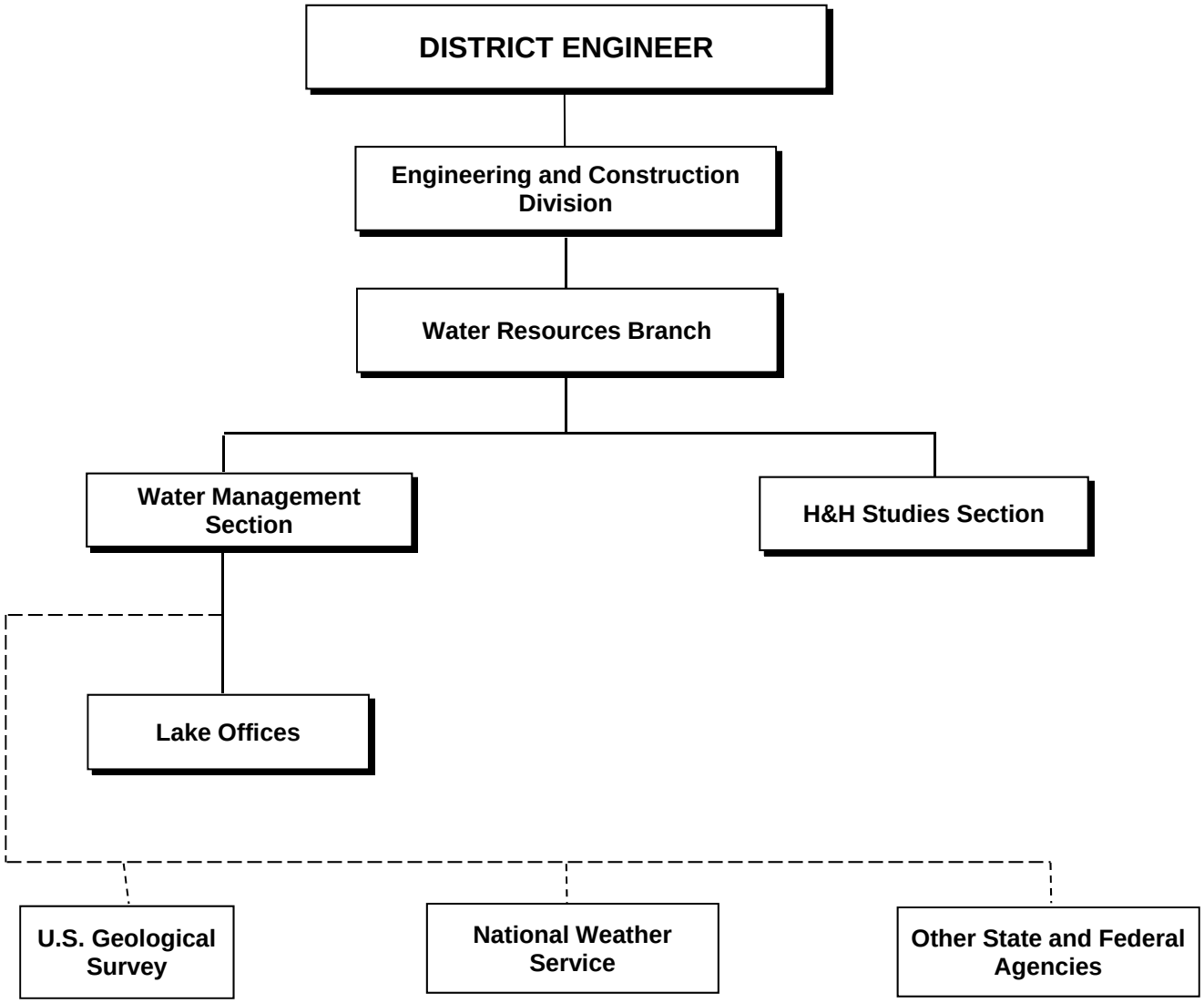
CANYON DAM AND LAKE

GUADALUPE RIVER

LAKE ELEVATION DURATION

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

FORT WORTH DISTRICT
ORGANIZATION FOR LAKE REGULATION



LINES OF COMMAND AUTHORITY

LINES OF DIRECT COMMUNICATION

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

ORGANIZATION FOR FLOOD CONTROL REGULATION

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

PLATE 9 - 1

FORT WORTH DISTRICT CORPS OF ENGINEERS
RESERVOIR REPORT FOR SATURDAY 01AUG2015

RESERVOIR	ELEVATION 0800 FT-NGVD	TOP CONS POOL	MEAN INFLOW DSF	MEAN TURBINE DSF	DAILY RELEASES PUMP MGD	OTHER DSF	RAIN INCHES	EVAP	0800 RELEASE CFS	POOL OCCUPIED %		POOL OCCUPIED A-F
RED RIVER BASIN												
Cooper	439.78	440.0	-162	--	18.618	5	0.00	.31	5	98	C	256411
Wright Patm	235.53	226.3	9205	--	49.706	9907	0.00	.16	10352	16	F	367034
Bob Sandlin	337.08	337.5	-239	--	--	0	--	--	0	98	C	198196
Lake O Pine	230.81	230.0	-221	--	--	301	0.00	--	301	3	F	16271
Caddo	169.30	168.5	1962	--	--	3141	0.00	--	2918	8	S	22059
NECHES RIVER BASIN												
Sam Rayburn	166.72	164.4	3597	1671	--	9487	0.00	.23	12744	25	F	251677
B.A. Steinh	82.06	83.0	9841	872	--	10477	0.32	.49	10886	86	C	57375
TRINITY RIVER BASIN												
Bridgeport	835.67	836.0	-494	--	--	0	0.02	--	0	99	C	356972
Eagle Mount	648.96	649.0	168	--	61.781	169	0.00	--	169	100	C	181265
Lake Worth	593.14	594.0	106	--	82.316	0	0.00	--	0	92	C	33791
Benbrook	695.18	694.0	-21	--	167.659	0	0.00	.64	0	6	F	4443
Joe Pool	532.15	522.0	23	--	9.236	358	0.00	.34	358	69	F	87158
Mountain Ck	458.14	457.0	307	--	--	0	--	--	794	--	S	3312
Ray Roberts	637.82	632.5	-273	--	11.629	1939	--	--	1938	64	F	169234
Lewisville	528.47	522.0	2092	0	76.759	4844	0.00	--	4839	61	F	207643
Grapevine	553.33	535.0	-927	--	--	1898	0.00	.37	1894	68	F	164553
Lavon	492.66	492.0	-123	--	410.157	394	0.00	.25	393	5	F	13893
Ray Hubbard	435.45	435.5	153	--	212.700	0	0.00	--	0	100	C	488563
Cedar Creek	321.39	322.0	50	--	28.040	0	0.00	--	0	97	C	648093
Navarro Mil	429.39	424.5	-294	--	9.420	1484	0.00	.52	1464	19	F	28189
Bardwell	421.51	421.0	-4	--	6.470	173	0.00	.40	91	2	F	1674
Richland Cr	315.32	315.0	2191	--	63.240	1870	0.00	--	1864	--	S	13463
BRAZOS RIVER BASIN												
Possum King	999.34	999.0	422	--	--	201	0.00	.29	201	--	C	5522
Granbury	692.64	692.7	-161	--	72.250	2	0.00	.34	2	100	C	126327
Whitney	532.96	533.0	277	846	--	25	0.00	.34	25	100	P	232827
Aquilla	537.22	537.5	-14	--	--	1	--	--	1	97	C	30412
Waco	461.92	462.0	81	--	46.791	60	0.00	.30	60	100	C	180188
Proctor	1168.98	1162.0	111	--	3.176	1456	0.00	.41	1410	12	F	37753
Belton	594.92	594.0	1089	--	58.305	1293	--	--	1031	2	F	11271
Stillhouse	622.11	622.0	-19	--	0.000	1	0.00	.41	1	0	F	714
Georgetown	790.27	791.0	6	--	51.045	0	0.00	.27	0	97	C	35900
Granger	504.48	504.0	56	--	4.408	121	0.00	.47	91	1	F	2054
Somerville	247.68	238.0	122	--	4.377	2166	0.00	.34	2159	39	F	136049
Limestone	362.08	363.0	-137	--	--	29	0.00	.05	28	94	C	192490
COLORADO RIVER BASIN												
Twin Buttes	1900.36	1940.2	-9	--	--	0	0.00	--	0	9	C	15073
O.C. Fisher	1873.74	1908.0	-9	--	0.000	0	0.00	.45	0	39	D	14239
O.H. Ivie	1510.48	1551.5	--	--	--	--	--	--	--	16	C	90730
Hords Creek	1886.20	1900.0	1	--	0.000	1	0.00	.44	1	27	C	1820
Buchanan	1007.43	1020.5	--	--	--	--	--	--	--	68	C	571665
Marshall Fo	670.40	681.0	-216	202	--	0	0.00	.34	0	83	C	927623
GUADALUPE RIVER BASIN												
Canyon	909.27	909.0	176	260	--	0	0.17	.17	256	1	F	2246

Pumpage below dam (MGD): Grapevine 7.515, and Belton 24.453.
Total outflow includes this and pumpage tabulated.
Preliminary data--Inflow not adjusted for wind effect, etc.

D = Sediment Pool
C = Conservation Pool
P = Power Pool
F = Flood Pool
S = Surcharge Pool
nr = Not reported today

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

DAILY REPORT

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

Canyon
Monthly Report
SEP2013

DAY:	ELEVATIONS 0800 FEET-NGVD	ELEVATIONS 2400 FEET-NGVD	STORAGE: 2400 A-F	EVAP: DSF	PUMP: DSF	RELEASES TURBINE: DSF	RELEASES OTHER DSF	ADJ. : INFLOW: DSF	RAIN INCH
1	897.68	897.68	293105	97	20.7	0	63	0	0.00
2	897.63	897.64	292827	71	19.9	0	0	19	0.00
3	897.59	897.60	292550	102	19.9	0	62	19	0.00
4	897.55	897.56	292273	92	19.9	0	62	30	0.20
5	897.53	897.53	292066	66	19.9	0	62	38	0.08
6	897.50	897.50	291858	76	19.9	0	62	47	0.00
7	897.46	897.47	291651	71	19.9	0	0	0	0.00
8	897.41	897.41	291236	81	19.9	0	63	0	0.00
9	897.39	897.40	291167	17	19.9	0	63	58	0.08
10	897.35	897.36	290891	61	19.9	0	62	3	0.05
11	897.34	897.34	290753	43	19.9	0	63	50	0.07
12	897.31	897.31	290546	68	19.9	0	63	41	0.00
13	897.27	897.27	290270	76	19.9	0	62	16	0.00
14	897.24	897.24	290063	91	19.9	0	0	6	0.00
15	897.18	897.18	289650	81	19.9	0	62	0	0.06
16	897.15	897.16	289513	71	19.9	0	62	74	0.00
17	897.16	897.16	289513	22	19.9	0	63	93	0.57
18	897.15	897.15	289444	25	19.9	0	0	9	0.06
19	897.11	897.11	289169	55	19.9	0	0	40	0.01
20	897.08	897.08	288962	35	19.9	0	63	12	0.12
21	897.13	897.15	289444	25	19.9	0	63	310	1.26
22	897.09	897.11	289169	53	19.9	0	63	15	0.00
23	897.05	897.06	288825	60	19.9	0	63	0	0.00
24	897.01	897.02	288550	33	19.9	0	63	0	0.00
25	896.98	896.98	288276	114	19.9	0	63	0	0.00
26	896.94	896.94	288001	73	19.9	0	63	0	0.00
27	896.90	896.90	287727	70	19.9	0	93	0	0.00
28	896.85	896.86	287453	37	19.9	0	63	51	0.01
29	897.21	896.86	287453	25	19.9	0	63	95	2.20
30	897.21	897.21	289857	25	19.9	0	63	1166	0.00
MONTHLY TOTAL (DSF)				1832	596	0.	1597.	2203.	4.77
		(A-F)	-5999	3635	1183	0	3167	4368	

GUADALUPE RIVER BASIN, TEXAS

CANYON DAM AND LAKE

GUADALUPE RIVER

MONTHLY RESERVOIR REPORT

U.S. ARMY ENGINEER DISTRICT, FORT WORTH September 2018

TABLE 4-8

All Recorded Major Floods at USGS Gages in the Guadalupe River Watershed, 1869-2016

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016

Date	Guadalupe River at Kerrville (1932-2016)		Guadalupe River at Hunt (1932-2016)		Guadalupe River at Comfort (1869-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1869, Jul	—	—	—	—	40.30	0
1900, Jul 16	—	—	—	—	38.40	182,000
1915, Sep 16	—	—	—	—	34.90	114,000
1932, Jul 2-3	39.00	196,000	36.60	206,000	—	—
1935, Jun 14-15	—	—	—	—	36.90	148,000
1936, Sep	—	—	—	—	34.40	107,000
1939, Jul 13	—	—	—	—	12.40	3,820
1939, Oct 10	—	—	—	—	14.79	7,520
1941, Apr 27	—	—	—	—	19.14	15,400
1942, Apr 25	—	—	—	—	14.50	7,010
1942, Oct 15	—	—	—	—	12.10	3,870
1944, May 26-27	—	—	—	—	29.40	74,200
1945, Sep 29-30	—	—	—	—	18.50	15,000
1946, May 6-16	—	—	—	—	14.04	6,400
1947, Jun 24-25	—	—	—	—	18.20	14,400
1948, Jun 24- Jul 12	—	—	—	—	7.04	1,390
1949, Feb 26	—	—	—	—	17.23	12,100
1950, Apr 2	—	—	—	—	9.89	2,630
1951, May 15-16	—	—	—	—	14.98	7,970
1952, Sep 10-11	—	—	—	—	25.44	45,600
1952, Dec 19	—	—	—	—	12.51	4,430
1954, Apr 30 -May 1	—	—	—	—	14.90	7,830
1955, Jul 17-18	—	—	—	—	15.58	9,030
1956, Aug 20	—	—	—	—	10.03	2,450
1957, Apr 24	—	—	—	—	24.59	40,500
1957, Oct 15	—	—	—	—	21.68	24,200
1959, Jun 26-27	—	—	—	—	21.19	22,500
1959, Oct 4-5	—	—	—	—	33.15	111,000

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River at Kerrville (1932-2016)		Guadalupe River at Hunt (1932-2016)		Guadalupe River at Comfort (1869-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1960, Oct 16-29	—	—	—	—	18.54	15,000
1962, May 29- Jun 4	—	—	—	—	6.92	1,220
1962, Oct 28	—	—	—	—	8.70	1,880
1964, Sep 22-25	—	—	—	—	17.50	12,800
1965, Jun 23	—	—	—	—	18.05	13,900
1966, Aug 13-14	—	—	21.40	47,000	23.99	37,000
1967, Jul 20	—	—	10.10	3,990	—	—
1967, Sep 3-15	—	—	—	—	10.43	2,620
1967, Oct 15	—	—	13.61	9,180	—	—
1968, Jan 20	—	—	—	—	15.56	8,960
1969, Sep 17	—	—	1.93	165	10.44	2,690
1969, Oct 5-12	—	—	9.98	3,880	21.20	22,500
1971, Aug 13-23	—	—	18.00	26,500	27.67	60,700
1971, Oct 19	—	—	—	—	14.64	7,460
1972, Aug 26	—	—	10.01	3,910	—	—
1973, Jul 8-20	—	—	6.94	1,770	15.10	8,180
1973, Oct 13-14	—	—	18.85	31,200	22.06	31,300
1974, Oct 31	—	—	—	—	17.41	14,400
1975. May 23-24	—	—	12.00	6,170	—	—
1976, Jul 16	—	—	8.66	2,820	8.78	2,230
1977, Apr 15-22	—	—	18.37	28,400	25.93	54,400
1978, Aug 2-5	—	—	23.50	62,900	40.90	240,000
1979, Jun 1	—	—	9.20	2,910	14.89	8,610
1980, Sep 7-29	—	—	16.14	18,000	12.72	12,000
1981, Jun 16-18	—	—	13.99	10,700	16.92	24,200
1981, Oct 13-16	—	—	15.37	15,100	20.38	36,400
1983, Feb 15	—	—	2.19	203	—	—
1983, Jun 5-15	—	—	—	—	3.80	1,260

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River at Kerrville (1932-2016)		Guadalupe River at Hunt (1932-2016)		Guadalupe River at Comfort (1869-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1984, May 20-28	—	—	1.56	79	1.58	243
1984, Dec 31	—	—	18.46	28,800	19.88	43,900
1985, Oct 19-24	—	—	22.80	56,800	27.50	73,700
1986, Sep 26	28.80	45,800	—	—	—	—
1987, Jul 17	37.72	141,000	28.38	108,000	31.50	130,000
1988, Jul 11-12	28.81	45,900	19.55	34,800	23.26	54,000
1989, Jan 28- Feb 9	21.88	421	8.20	126	5.27	1,020
1990, May 3-4	—	—	—	—	18.59	27,900
1990, Aug 3	8.22	10,700	15.15	13,900	—	—
1991, Sep 15-16	3.98	1,930	10.69	2,350	13.28	10,000
1991, Dec 20-28	7.49	8,710	13.50	8,340	23.37	54,700
1992, Nov 19	3.94	1,880	10.60	2,210	6.91	1,880
1994, May 14-23	9.35	14,100	16.59	19,800	16.33	18,900
1994, Dec 9	—	—	—	—	8.47	3,110
1995, Jun 29	4.88	3,240	—	—	—	—
1995, Sep 21	—	—	9.65	1,080	—	—
1996, Sep 15-24	4.33	2,400	10.50	2,080	6.70	1,740
1996, Oct 28	17.73	54,400	19.73	35,900	—	—
1997, Jun 22-27	—	—	—	—	25.91	73,700
1998, Aug 23	9.81	15,700	17.57	24,300	16.64	20,000
1998, Oct 17	—	—	—	—	—	—
1999, Jun 20-21	4.87	3,320	11.08	2,980	7.35	2,580
2000, May 19	2.22	286	—	—	—	—
2000, Jun 18	—	—	8.44	197	—	—
2000, Sep 13	—	—	—	—	3.09	417
2000, Oct 23-24	17.94	55,700	22.40	53,900	24.08	59,400
2001, Nov 15	—	—	17.77	25,200	—	—
2002, Jul 4-6	14.56	35,900	—	—	31.38	128,000

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River at Kerrville (1932-2016)		Guadalupe River at Hunt (1932-2016)		Guadalupe River at Comfort (1869-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
2002, Oct 7-24	2.68	576	8.81	407	9.00	3,950
2003, Feb 20	—	—	—	—	—	—
2003, Mar 3	—	—	—	—	—	—
2004, Apr 6-11	—	—	18.28	27,800	—	—
2004, Jun 9	20.53	72,700	—	—	23.54	55,600
2004, Oct 23	—	—	—	—	15.63	16,400
2004, Nov 16-17	—	—	8.32	175	—	—
2004, Dec 3	—	—	—	—	—	—
2005, May 8	2.48	419	—	—	—	—
2005, Oct 1	—	—	—	—	—	—
2005, Nov 26	2.25	270	8.02	79	—	—
2006, Mar 20	—	—	—	—	3.29	559
2006, May 5	—	—	—	—	—	—
2007, May 25	15.21	39,400	14.99	13,400	—	—
2007, Aug 17	—	—	—	—	24.54	62,800
2007, Sep 4	—	—	—	—	—	—
2007, Oct 11-23	—	—	—	—	3.54	640
2008, May 14-15	2.09	198	8.08	103		
2009, Jun 30	2.55	484	—	—	—	—
2009, Aug 2	—	—	8.55	277	—	—
2009, Sep 10-11	—	—	—	—	2.13	253
2010, Apr 16-22	13.51	30,700	18.51	29,000	19.17	30,500
2010, Nov 17	2.01	140	—	—	—	—
2011, Jan 9-11	—	—	7.85	33	4.15	165
2012, Jan 25	—	—	—	—	—	—

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River at Kerrville (1932-2016)		Guadalupe River at Hunt (1932-2016)		Guadalupe River at Comfort (1869-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
2012, Mar 20	—	—	—	—	12.48	6,890
2012, May 10-11	5.69	4,670	11.31	3,380	—	—
2013, Jan 6-9	2.17	255	8.31	129	4.58	320
2013, May 25					—	—
2013, Oct 31					—	—
2014, May 26	4.17	2,180	11.07	2,960	8.36	2,450
2015, May 23-24	4.61	2,810	10.58	2,190	26.67	72,600
2015, Jun 4					—	—
2015, Oct 30					—	—
2016, May 29	8.38	11,100	10.28	1,790	27.90	83,800

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River near Spring Branch (1869-2016)		Guadalupe River at Sattler (1960-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1869, Jul	53.00	—	—	—
1900, Jul 16	49.00	—	—	—
1923, Sep 19	19.75	18,200	—	—
1924, May 26	9.50	4,950	—	—
1925, May 29	6.50	2,380	—	—
1926, Apr 21	20.72	19,800	—	—
1927, Jun 5	11.80	7,070	—	—
1928, Mar 9	11.32	6,570	—	—
1929, May 29	19.82	18,600	—	—
1930, Jun 12	15.80	11,800	—	—
1930, Oct 7	24.57	24,000	—	—
1932, Jul 3	42.10	121,000	—	—
1933, May 26	8.78	4,120	—	—
1934, Apr 18	7.96	3,400	—	—
1935, Jun 14-15	41.30	114,000	—	—
1936, Sep	33.45	48,600	—	—
1937, Jun 1	10.88	6,240	—	—
1938, Apr 27	11.22	6,520	—	—
1939, Jul 13	8.27	3,870	—	—
1939, Oct 10	12.38	7,670	—	—
1941, Feb 1	17.98	15,300	—	—
1942, Sep 8	16.80	13,500	—	—
1943, Jun 5	7.71	3,330	—	—
1944, May 26-27	25.60	28,000	—	—
1945, Sep 29-30	14.43	10,100	—	—
1946, May 6-16	11.75	7,070	—	—
1947, Jun 24-25	14.37	10,100	—	—
1948, Jun 24- Jul 12	12.47	7,770	—	—

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River near Spring Branch (1869-2016)		Guadalupe River at Sattler (1960-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1949, Feb 26	13.16	8,540	—	—
1950, May 16	9.21	4,680	—	—
1951, May 15-16	8.81	4,330	—	—
1952, Sep 10-11	35.83	66,900	—	—
1953, Sep 4	8.80	4,320	—	—
1954, Apr 30 -May 1	7.88	3,430	—	—
1955, Jul 17-18	9.93	5,310	—	—
1956, Aug 20	4.23	810	—	—
1957, Apr 24	24.55	25,600	—	—
1958, May 2	33.60	55,200	—	—
1959, Jun 26-27	18.40	15,300	—	—
1959, Oct 4-5	29.61	42,500	—	—
1960, Aug 17	—	—	10.80	15,500
1960, Oct 16-29	17.22	14,500	12.20	20,800
1962, May 29- Jun 4	7.70	3,430	6.02	2,200
1962, Oct 28	—	—	—	—
1963, Apr 5	8.70	4,400	5.49	1,450
1964, Mar 20	—	—	5.55	1,520
1964, Sep 22-25	13.10	9,120	—	—
1964, Oct 26	—	—	5.15	1,010
1965, May 16	20.50	19,600	—	—
1966, Feb 15	—	—	5.65	575
1966, Aug 13-14	20.10	19,000	—	—
1967, Sep 3-15	11.03	6,800	5.61	547
1968, Jan 20	17.30	13,600	—	—
1968, May 14	—	—	6.36	1,240
1969, May 16-22	9.39	4,560	5.70	610
1969, Oct 5-6	21.85	20,900	—	—

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River near Spring Branch (1869-2016)		Guadalupe River at Sattler (1960-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1970, Jun 3	—	—	6.29	1,170
1971, Aug 13-23	31.36	43,600	7.69	3,800
1972, May 12-23	18.13	14,900	7.60	3,550
1973, Jul 15-20	32.48	47,900	8.04	4,770
1973, Oct 13-14	19.97	17,800	—	—
1973, Nov 13	—	—	7.76	3,950
1975, Feb 11	—	—	8.18	5,390
1975, May 24	17.44	13,900	—	—
1976, Apr 18	18.50	15,600	—	—
1976, May 7	—	—	5.93	763
1977, Apr 15-22	30.93	41,900	8.16	5,320
1978, Aug 2-5	45.25	160,000	8.31	5,850
1979, Mar 21	15.08	11,800	—	—
1979, May 7	—	—	8.22	5,530
1980, Sep 7-19	12.32	8,370	5.51	476
1981, Jun 16-18	23.03	24,500	8.21	5,490
1981, Oct 13-16	23.53	25,500	6.12	946
1983, Mar 28	—	—	5.57	512
1983, Jun 5-15	7.18	3,450	—	—
1983, Oct 9	7.01	3,300	—	—
1984, Sep 1	—	—	5.28	355
1985, Jun 6	30.65	47,500	6.04	866
1985, Oct 19-24	32.06	55,500	8.10	5,110
1987, Jun 24	—	—	8.30	5,560
1987, Jul 17	35.58	76,500	—	—
1987, Oct 1	—	—	6.78	1,860
1988, Jul 11-12	27.25	35,100	—	—
1989, Jan 28- Feb 9	—	—	5.26	345

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River near Spring Branch (1869-2016)		Guadalupe River at Sattler (1960-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
1989, May 15-17	5.63	1,620	5.74	621
1990, May 3-4	20.23	18,800	—	—
1991, Apr 5	—	—	5.75	628
1991, Sep 15-16	9.92	5,560	—	—
1991, Dec 20-28	36.00	79,300	8.27	5,710
1993, Jan 19	7.09	2,840	—	—
1993, Mar 23	—	—	5.70	594
1994, May 14-23	14.88	11,200	6.18	957
1995, Jan 4	—	—	6.15	978
1995, May 30	11.56	7,310	—	—
1995, Nov 8	—	—	4.92	218
1996, Sep 15-24	9.70	5,320	—	—
1997, Jun 22-27	45.12	116,000	8.26	5,670
1998, Mar 16-17	18.18	15,500	7.10	2,380
1998, Oct 17	32.68	51,400	9.29	10,300
2000, Jun 10-11	4.08	739	4.71	171
2000, Oct 23-24	27.46	35,100	—	—
2000, Nov 15	—	—	7.75	4,030
2002, Jul 4-6	41.60	94,400	36.36	70,000
2003, Feb 20	7.16	2,910	—	—
2003, Mar 3	—	—	8.19	5,420
2004, Apr 7-11	23.51	31,600	9.10	9,300
2004, Nov 17	27.31	34,800	—	—
2004, Dec 3	—	—	7.90	5,310
2005, Oct 1	—	—	4.97	209
2006, May 5	6.28	2,090	—	—
2007, Aug 17	33.68	56,400	—	—
2007, Sep 4	—	—	8.47	6,700

Table 4-8 All Recorded Major Floods at USGS Gages In The Guadalupe River Watershed, 1869-2016 (Continued)

Date	Guadalupe River near Spring Branch (1869-2016)		Guadalupe River at Sattler (1960-2016)	
	Gage Height (ft)	Peak Discharge (cfs)	Gage Height (ft)	Peak Discharge (cfs)
2007, Oct 11-23	4.31	808	6.28	1,250
2009, Mar 13	3.62	527	—	—
2009, Sep 10-11	—	—	5.03	243
2010, Apr 16-22	16.09	14,700	7.70	4,050
2011, Jan 9-11	2.73	173	4.97	224
2012, Jan 25	10.09	6,110	5.01	237
2013, Jan 6-9	—	—	5.51	446
2013, May 25	6.92	2,600	—	—
2013, Oct 31	14.95	13,000	7.14	2,470
2015, May 23	34.50	59,800	—	—
2015, Jun 4	—	—	8.56	6,110
2015, Oct 30	—	—	8.39	7,100
2016, Oct 10	30.06	43,100	—	—

TABLE 4-9

Canyon Lake and Dam Monthly and Annual Inflow Volumes in Acre-feet

TABLE 4-9

Canyon Dam and Lake Monthly and Annual Inflow Volumes in Acre-Feet

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1915	-	12,800	22,100	140,100	69,700	29,500	20,400	14,400	105,100	16,000	10,900	12,000	453,000
1916	12,200	8,200	7,200	70,300	98,100	16,700	13,600	10,200	5,800	7,400	5,500	5,900	261,100
1917	6,200	3,700	5,100	4,100	9,900	2,900	4,100	2,600	5,800	1,500	2,000	2,700	50,600
1918	2,900	1,700	2,700	12,300	7,000	1,100	700	2,300	2,700	3,600	16,100	26,600	79,700
1919	28,500	17,500	24,500	20,600	29,600	44,100	72,200	145,100	255,100	327,100	113,100	66,000	1,143,400
1920	74,000	56,900	47,000	35,900	58,000	35,400	20,300	29,500	15,200	13,900	13,300	13,800	413,200
1921	11,800	8,400	21,500	53,100	15,800	56,100	12,400	6,500	85,100	14,900	10,800	10,200	306,600
1922	8,800	5,900	8,400	44,900	60,200	18,700	11,200	7,900	5,600	6,500	8,400	6,600	193,100
1923	6,200	5,900	8,700	23,100	18,500	8,300	1,700	800	54,100	15,200	40,000	70,700	253,200
1924	41,600	37,500	55,700	46,900	88,100	48,700	31,000	23,700	15,000	13,000	10,600	11,700	423,500
1925	10,500	7,000	7,200	6,500	8,300	5,700	3,500	3,600	2,300	18,800	13,400	6,500	93,300
1926	7,900	7,200	14,000	92,100	54,600	18,700	21,400	12,900	7,100	6,800	10,000	12,500	265,200
1927	10,100	20,800	30,800	23,100	13,700	22,900	9,600	4,400	4,200	9,000	4,700	5,600	158,900
1928	5,180	11,200	14,900	5,550	5,450	8,810	2,100	1,330	1,860	2,390	2,450	3,540	64,760
1929	5,690	3,120	3,940	8,210	89,800	30,100	44,000	6,270	4,440	3,390	4,250	5,260	208,470
1930	4,560	4,370	4,300	3,310	38,500	28,200	6,520	1,890	1,350	52,800	11,700	12,500	170,000
1931	24,400	42,400	44,400	44,700	87,300	24,000	30,800	12,500	6,250	4,880	6,010	8,180	335,820
1932	17,300	15,500	28,900	16,800	18,000	7,560	225,000	13,800	39,700	17,700	11,400	13,600	425,260
1933	23,100	14,900	16,200	12,900	14,600	7,580	4,670	4,490	4,500	3,440	3,610	4,070	114,060
1934	9,160	9,390	16,800	22,600	8,480	3,180	5,560	2,910	1,700	1,190	2,950	3,770	87,690
1935	3,990	8,200	4,600	4,080	96,750	272,000	44,530	21,000	65,430	28,480	17,240	24,610	590,910
1936	18,940	13,050	15,270	10,680	45,580	45,250	119,900	18,500	249,900	78,850	42,330	33,660	691,910
1937	30,230	24,760	34,060	22,150	13,270	48,090	12,640	6,120	5,900	7,580	6,400	22,180	233,380
1938	50,550	29,210	21,340	38,920	42,920	15,830	8,760	5,320	5,250	4,200	4,450	5,670	232,420
1939	7,640	5,040	4,900	4,700	5,160	2,050	9,020	3,830	1,700	12,660	3,840	4,040	64,580
1940	4,380	5,950	8,980	23,320	15,920	21,090	13,120	4,710	2,820	2,920	15,640	55,490	174,340
1941	18,410	77,850	79,610	109,300	144,500	51,310	38,180	18,320	19,120	32,410	17,390	14,180	620,580
1942	12,060	10,330	9,850	45,160	52,840	16,210	13,420	8,510	48,650	51,170	27,150	22,620	317,970
1943	17,580	11,960	12,660	14,810	10,820	21,820	14,740	5,640	7,890	6,470	5,170	6,720	136,280
1944	18,490	28,060	54,040	28,960	121,100	55,620	20,700	20,370	25,920	18,800	14,720	43,360	450,140
1945	64,500	63,380	76,830	63,900	30,450	18,520	14,440	8,510	14,860	27,750	12,320	25,200	420,660
1946	20,980	26,520	36,190	22,270	37,840	24,750	9,220	6,410	30,270	41,540	71,670	50,540	378,200
1947	77,226	47,870	37,815	31,320	27,487	29,040	12,835	9,701	5,400	4,820	5,393	7	288,914
1948	5,920	6,212	6,268	5,518	6,333	10,975	6,797	2,140	2,330	3,961	3,010	3,709	63,173
1949	4,963	21,590	18,347	30,449	26,349	13,295	7,089	9,053	6,670	8,027	5,770	6,321	157,923
1950	6,466	9,443	7,049	8,190	13,067	8,241	5,949	2,039	2,470	2,160	2,190	3,110	70,374
1951	3,150	3,537	5,504	4,955	10,990	8,749	1,110	343	557	472	1,240	2,471	43,078
1952	2,358	1,990	2,520	7,976	22,499	12,288	2,596	670	161,784	8,733	7,404	17,183	248,001
1953	17,201	9,076	8,790	7,748	4,588	1,369	1,797	1,753	21,561	10,415	5,469	8,856	98,623
1954	5,857	4,170	3,220	2,210	6,890	1,486	423	319	216	803	1,759	1,360	28,713
1955	2,210	3,990	2,174	1,250	8,540	2,586	7,260	2,320	715	1,090	704	1,540	34,379
1956	1,560	1,800	1,210	556	785	40	3	335	260	615	1,212	1,353	9,729
1957	755	1,809	18,046	139,755	62,105	56,207	10,740	4,620	27,080	105,700	57,340	40,300	524,457
1958	61,070	79,710	87,550	44,660	134,600	50,600	24,020	12,780	49,570	37,370	44,100	27,930	653,960
1959	22,600	21,320	21,280	25,090	18,950	39,480	20,590	11,150	7,220	91,970	19,520	20,040	319,210
1960	28,680	25,990	21,600	18,730	13,160	8,610	11,720	49,570	13,520	89,980	44,460	55,960	381,980
1961	51,710	88,920	52,390	27,940	17,330	31,250	19,560	11,600	8,040	7,460	8,280	8,560	333,040
1962	7,860	6,650	6,800	7,570	6,430	10,280	2,300	450	2,990	4,670	5,230	6,360	67,590
1963	5,020	4,590	4,470	10,280	4,850	2,150	1,360	620	630	2,840	5,280	4,410	46,500
1964	4,390	9,490	15,360	8,370	4,750	5,370	1,160	4,110	29,340	16,280	15,480	7,960	122,060
1965	8,020	31,640	17,810	26,010	102,100	60,740	13,440	6,180	7,480	17,160	10,220	25,980	326,780
1966	13,300	16,860	16,580	29,170	26,830	12,100	7,870	29,670	22,150	9,890	6,770	5,190	196,380
1967	6,580	5,900	8,250	5,310	5,929	2,210	2,860	2,320	32,160	20,490	27,480	15,230	134,719
1968	127,724	47,318	47,412	46,719	52,912	32,129	18,042	7,815	9,644	6,613	8,800	9,695	414,823
1982	-	-	-	-	-	24,228	10,290	8,194	6,329	6,155	9,979	10,445	
1983	9,683	12,119	79	13,182	21,176	25,478	12,167	7,248	5,748	7,680	8,733	5,524	128,818
1984	8,910	6,609	6,926	5,322	4,756	4,165	1,777	3,570	403	16,983	8,956	21,771	90,148
1985	71,489	37,948	56,169	35,657	36,506	103,049	45,529	12,903	15,854	80,976	37,044	39,495	572,621
1986	25,694	33,809	21,120	15,537	36,667	55,401	17,679	9,455	51,510	91,820	52,747	116,154	527,593
1987	74,820	50,815	65,965	40,265	86,473	384,767	157,924	51,658	30,143	21,934	25,067	21,701	1,011,533
1988	17,598	15,007	16,588	13,293	22,582	17,340	61,419	22,642	14,537	10,280	7,131	7,922	226,339
1989	15,328	12,712	14,841	13,773	13,252	8,589	4,505	3,959	4,009	7,115	5,663	4,007	107,752
1990	6,944	8,545	17,830	21,596	80,217	13,442	30,808	30,693	14,672	13,422	13,972	8,531	260,672
1991	19,651	28,832	20,378	33,720	33,476	19,240	11,282	8,045	26,256	12,552	12,651	314,779	540,861
1992	142,272	256,814	223,170	110,903	147,027	121,926	53,071	31,825	21,168	15,467	26,630	27,717	1,177,991
1993	29,288	32,037	33,910	30,250	29,663	24,125	13,038	7,204	9,382	16,576	7,787	8,848	242,110
1994	9,580	12,171	21,438	14,353	55,326	18,381	8,255	6,591	10,889	23,219	17,314	27,527	225,044
1995	27,358	15,973	22,596	23,501	35,697	36,431	19,167	9,027	13,359	9,783	13,775	8,910	235,576
1996	7,678	8,015	7,444	8,164	6,050	5,992	2,128	6,714	12,716	36,957	14,872	16,092	132,823
1997	10,967	39,073	50,434	103,882	78,880	375,798	98,723	42,290	20,309	364,825	15,055	17,028	1,217,264

TABLE 4-9 (CONTINUED)

Canyon Dam and Lake Monthly and Annual Inflow Volumes in Acre-Feet

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1998	27,077	40,057	97,128	35,981	18,064	13,026	10,255	26,952	17,992	147,925	63,577	35,854	533,887
1999	22,060	15,862	18,689	15,166	16,124	21,023	15,098	6,222	4,173	5,748	4,875	4,939	149,980
2000	6,645	8,491	7,188	5,788	9,670	11,246	3,318	2,075	1,841	58,097	146,543	37,548	298,449
2001	53,729	49,720	64,499	44,660	37,978	14,319	8,009	21,487	46,366	31,982	145,373	64,454	582,578
2002	34,102	21,511	18,530	16,634	11,421	21,836	862,329	76,656	47,217	66,376	62,363	52,537	1,291,512
2003	39,410	52,138	52,454	30,621	18,685	28,303	20,345	13,406	15,422	21,112	10,445	9,196	311,536
2004	15,628	16,314	23,967	116,743	59,025	136,102	86,578	35,963	22,842	85,423	237,167	66,634	902,385
2005	45,121	49,228	91,187	39,174	32,936	21,313	14,960	17,748	8,926	6,912	6,740	6,811	341,057
2006	7,067	6,040	9,689	8,134	14,095	5,149	4,626	2,628	4,868	5,816	3,779	5,621	77,511
2007	15,608	7,000	102,077	56,577	120,107	82,512	205,013	245,873	102,876	39,382	20,414	17,078	1,014,517
2008	13,295	11,516	13,293	8,075	7,730	2,638	4,126	4,971	6	2,832	2,573	2,940	73,994
2009	4,215	3,648	7,262	6,516	5,673	3,015	2,715	1,944	13,684	33,327	19,198	14,499	115,696
2010	30,046	73,689	37,189	56,466	43,865	24,127	22,172	7,880	42,076	10,643	6,242	7,151	361,546
2011	9,765	6,768	5,877	4,100	3,543	2,961	1,462	1,859	1,644	1,277	1,904	5,381	46,541
2012	9,894	9,983	27,160	7,863	28,675	5,766	5,776	1,613	6,012	2,664	1,793	2,414	109,612
2013	6,593	3,513	3,711	4,992	14,918	6,583	4,998	1,369	4,754	38,412	7,508	4,911	102,263
2014	3,664	3,787	3,876	2,848	15,005	7,728	3,715	1,474	5,125	0	6,726	2,894	56,841
2015	12,280	6,262	9,557	15,523	272,537	83,753	26,547	9,900	5,683	68,349	30,613	29,784	570,788
2016	20,398	12,712	18,934	38,682	161,340	133,801	29,826	29,681	18,819	12,730	13,408	24,564	514,897
2017	30,282	35,848	32,670	27,152	13,520	10,604	4,661	10,132	5,645				170,514
TOTAL	1,926,601	2,053,132	2,376,940	2,590,191	3,580,909	3,284,123	2,923,230	1,385,738	2,145,653	2,678,593	1,895,220	1,935,176	
AVG	21,893	23,069	26,707	29,103	40,235	36,490	32,480	15,397	23,841	30,097	21,295	21,744	322,471

NOTES: **1. Data for period from January 1915 to December 1968 are from Canyon Lake Water Control Manual, revised in January 2005.**
2. Data for period from June 1982 to September 2017 are from the USACE hydrologic data.

TABLE 7-4

Tabulated Area and Capacity Curves

TABLE 7-4

Tabulated Area and Capacity Curves

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
762.0	0.000	0.002	0.005	0.007	0.010	0.013	0.015	0.018	0.020	0.023
762.1	0.025	0.027	0.030	0.032	0.035	0.038	0.040	0.043	0.045	0.047
762.2	0.050	0.052	0.055	0.058	0.060	0.062	0.065	0.068	0.070	0.072
762.3	0.075	0.078	0.080	0.083	0.085	0.087	0.090	0.093	0.095	0.097
762.4	0.100	0.102	0.105	0.108	0.110	0.112	0.115	0.117	0.120	0.123
762.5	0.125	0.127	0.130	0.132	0.135	0.138	0.140	0.142	0.145	0.147
762.6	0.150	0.153	0.155	0.157	0.160	0.162	0.165	0.168	0.170	0.172
762.7	0.175	0.177	0.180	0.183	0.185	0.188	0.190	0.192	0.195	0.198
762.8	0.200	0.203	0.205	0.207	0.210	0.213	0.215	0.218	0.220	0.222
762.9	0.225	0.228	0.230	0.233	0.235	0.237	0.240	0.243	0.245	0.248
763.0	0.250	0.252	0.255	0.257	0.260	0.262	0.265	0.268	0.270	0.273
763.1	0.275	0.278	0.280	0.282	0.285	0.287	0.290	0.292	0.295	0.298
763.2	0.300	0.303	0.305	0.308	0.310	0.312	0.315	0.317	0.320	0.322
763.3	0.325	0.327	0.330	0.333	0.335	0.338	0.340	0.343	0.345	0.347
763.4	0.350	0.352	0.355	0.357	0.360	0.363	0.365	0.368	0.370	0.373
763.5	0.375	0.377	0.380	0.382	0.385	0.387	0.390	0.393	0.395	0.398
763.6	0.400	0.403	0.405	0.407	0.410	0.412	0.415	0.417	0.420	0.423
763.7	0.425	0.428	0.430	0.433	0.435	0.438	0.440	0.442	0.445	0.447
763.8	0.450	0.452	0.455	0.458	0.460	0.463	0.465	0.468	0.470	0.472
763.9	0.475	0.477	0.480	0.482	0.485	0.488	0.490	0.493	0.495	0.498
764.0	0.500	0.505	0.510	0.515	0.520	0.525	0.530	0.535	0.540	0.545
764.1	0.550	0.555	0.560	0.565	0.570	0.575	0.580	0.585	0.590	0.595
764.2	0.600	0.605	0.610	0.615	0.620	0.625	0.630	0.635	0.640	0.645
764.3	0.650	0.655	0.660	0.665	0.670	0.675	0.680	0.685	0.690	0.695
764.4	0.700	0.705	0.710	0.715	0.720	0.725	0.730	0.735	0.740	0.745
764.5	0.750	0.755	0.760	0.765	0.770	0.775	0.780	0.785	0.790	0.795
764.6	0.800	0.805	0.810	0.815	0.820	0.825	0.830	0.835	0.840	0.845
764.7	0.850	0.855	0.860	0.865	0.870	0.875	0.880	0.885	0.890	0.895
764.8	0.900	0.905	0.910	0.915	0.920	0.925	0.930	0.935	0.940	0.945
764.9	0.950	0.955	0.960	0.965	0.970	0.975	0.980	0.985	0.990	0.995
765.0	1.000	1.003	1.005	1.008	1.010	1.013	1.015	1.018	1.020	1.023
765.1	1.025	1.028	1.030	1.033	1.035	1.038	1.040	1.043	1.045	1.048
765.2	1.050	1.053	1.055	1.058	1.060	1.062	1.065	1.067	1.070	1.072
765.3	1.075	1.077	1.080	1.082	1.085	1.087	1.090	1.092	1.095	1.097
765.4	1.100	1.102	1.105	1.107	1.110	1.112	1.115	1.117	1.120	1.122
765.5	1.125	1.128	1.130	1.133	1.135	1.138	1.140	1.143	1.145	1.148
765.6	1.150	1.153	1.155	1.158	1.160	1.163	1.165	1.168	1.170	1.173
765.7	1.175	1.178	1.180	1.183	1.185	1.188	1.190	1.192	1.195	1.197
765.8	1.200	1.202	1.205	1.207	1.210	1.212	1.215	1.217	1.220	1.222
765.9	1.225	1.227	1.230	1.232	1.235	1.237	1.240	1.242	1.245	1.247
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
766.0	1.250	1.253	1.255	1.258	1.260	1.263	1.265	1.268	1.270	1.273
766.1	1.275	1.278	1.280	1.283	1.285	1.288	1.290	1.293	1.295	1.298
766.2	1.300	1.303	1.305	1.308	1.310	1.312	1.315	1.317	1.320	1.322
766.3	1.325	1.327	1.330	1.332	1.335	1.337	1.340	1.342	1.345	1.347
766.4	1.350	1.352	1.355	1.357	1.360	1.362	1.365	1.367	1.370	1.372
766.5	1.375	1.378	1.380	1.383	1.385	1.388	1.390	1.393	1.395	1.398
766.6	1.400	1.403	1.405	1.408	1.410	1.413	1.415	1.418	1.420	1.423
766.7	1.425	1.428	1.430	1.433	1.435	1.438	1.440	1.442	1.445	1.447
766.8	1.450	1.452	1.455	1.457	1.460	1.462	1.465	1.467	1.470	1.472
766.9	1.475	1.477	1.480	1.482	1.485	1.487	1.490	1.492	1.495	1.497
767.0	1.500	1.505	1.510	1.515	1.520	1.525	1.530	1.535	1.540	1.545
767.1	1.550	1.555	1.560	1.565	1.570	1.575	1.580	1.585	1.590	1.595
767.2	1.600	1.605	1.610	1.615	1.620	1.625	1.630	1.635	1.640	1.645
767.3	1.650	1.655	1.660	1.665	1.670	1.675	1.680	1.685	1.690	1.695
767.4	1.700	1.705	1.710	1.715	1.720	1.725	1.730	1.735	1.740	1.745
767.5	1.750	1.755	1.760	1.765	1.770	1.775	1.780	1.785	1.790	1.795
767.6	1.800	1.805	1.810	1.815	1.820	1.825	1.830	1.835	1.840	1.845
767.7	1.850	1.855	1.860	1.865	1.870	1.875	1.880	1.885	1.890	1.895
767.8	1.900	1.905	1.910	1.915	1.920	1.925	1.930	1.935	1.940	1.945
767.9	1.950	1.955	1.960	1.965	1.970	1.975	1.980	1.985	1.990	1.995
768.0	2.000	2.020	2.040	2.060	2.080	2.100	2.120	2.140	2.160	2.180
768.1	2.200	2.220	2.240	2.260	2.280	2.300	2.320	2.340	2.360	2.380
768.2	2.400	2.420	2.440	2.460	2.480	2.500	2.520	2.540	2.560	2.580
768.3	2.600	2.620	2.640	2.660	2.680	2.700	2.720	2.740	2.760	2.780
768.4	2.800	2.820	2.840	2.860	2.880	2.900	2.920	2.940	2.960	2.980
768.5	3.000	3.020	3.040	3.060	3.080	3.100	3.120	3.140	3.160	3.180
768.6	3.200	3.220	3.240	3.260	3.280	3.300	3.320	3.340	3.360	3.380
768.7	3.400	3.420	3.440	3.460	3.480	3.500	3.520	3.540	3.560	3.580
768.8	3.600	3.620	3.640	3.660	3.680	3.700	3.720	3.740	3.760	3.780
768.9	3.800	3.820	3.840	3.860	3.880	3.900	3.920	3.940	3.960	3.980
769.0	4.000	4.020	4.040	4.060	4.080	4.100	4.120	4.140	4.160	4.180
769.1	4.200	4.220	4.240	4.260	4.280	4.300	4.320	4.340	4.360	4.380
769.2	4.400	4.420	4.440	4.460	4.480	4.500	4.520	4.540	4.560	4.580
769.3	4.600	4.620	4.640	4.660	4.680	4.700	4.720	4.740	4.760	4.780
769.4	4.800	4.820	4.840	4.860	4.880	4.900	4.920	4.940	4.960	4.980
769.5	5.000	5.020	5.040	5.060	5.080	5.100	5.120	5.140	5.160	5.180
769.6	5.200	5.220	5.240	5.260	5.280	5.300	5.320	5.340	5.360	5.380
769.7	5.400	5.420	5.440	5.460	5.480	5.500	5.520	5.540	5.560	5.580
769.8	5.600	5.620	5.640	5.660	5.680	5.700	5.720	5.740	5.760	5.780
769.9	5.800	5.820	5.840	5.860	5.880	5.900	5.920	5.940	5.960	5.980
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-3 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
770.0	6.000	6.020	6.040	6.060	6.080	6.100	6.120	6.140	6.160	6.180
770.1	6.200	6.220	6.240	6.260	6.280	6.300	6.320	6.340	6.360	6.380
770.2	6.400	6.420	6.440	6.460	6.480	6.500	6.520	6.540	6.560	6.580
770.3	6.600	6.620	6.640	6.660	6.680	6.700	6.720	6.740	6.760	6.780
770.4	6.800	6.820	6.840	6.860	6.880	6.900	6.920	6.940	6.960	6.980
770.5	7.000	7.020	7.040	7.060	7.080	7.100	7.120	7.140	7.160	7.180
770.6	7.200	7.220	7.240	7.260	7.280	7.300	7.320	7.340	7.360	7.380
770.7	7.400	7.420	7.440	7.460	7.480	7.500	7.520	7.540	7.560	7.580
770.8	7.600	7.620	7.640	7.660	7.680	7.700	7.720	7.740	7.760	7.780
770.9	7.800	7.820	7.840	7.860	7.880	7.900	7.920	7.940	7.960	7.980
771.0	8.000	8.020	8.040	8.060	8.080	8.100	8.120	8.140	8.160	8.180
771.1	8.200	8.220	8.240	8.260	8.280	8.300	8.320	8.340	8.360	8.380
771.2	8.400	8.420	8.440	8.460	8.480	8.500	8.520	8.540	8.560	8.580
771.3	8.600	8.620	8.640	8.660	8.680	8.700	8.720	8.740	8.760	8.780
771.4	8.800	8.820	8.840	8.860	8.880	8.900	8.920	8.940	8.960	8.980
771.5	9.000	9.020	9.040	9.060	9.080	9.100	9.120	9.140	9.160	9.180
771.6	9.200	9.220	9.240	9.260	9.280	9.300	9.320	9.340	9.360	9.380
771.7	9.400	9.420	9.440	9.460	9.480	9.500	9.520	9.540	9.560	9.580
771.8	9.600	9.620	9.640	9.660	9.680	9.700	9.720	9.740	9.760	9.780
771.9	9.800	9.820	9.840	9.860	9.880	9.900	9.920	9.940	9.960	9.980
772.0	10.000	10.030	10.060	10.090	10.120	10.150	10.180	10.210	10.240	10.270
772.1	10.300	10.330	10.360	10.390	10.420	10.450	10.480	10.510	10.540	10.570
772.2	10.600	10.630	10.660	10.690	10.720	10.750	10.780	10.810	10.840	10.870
772.3	10.900	10.930	10.960	10.990	11.020	11.050	11.080	11.110	11.140	11.170
772.4	11.200	11.230	11.260	11.290	11.320	11.350	11.380	11.410	11.440	11.470
772.5	11.500	11.530	11.560	11.590	11.620	11.650	11.680	11.710	11.740	11.770
772.6	11.800	11.830	11.860	11.890	11.920	11.950	11.980	12.010	12.040	12.070
772.7	12.100	12.130	12.160	12.190	12.220	12.250	12.280	12.310	12.340	12.370
772.8	12.400	12.430	12.460	12.490	12.520	12.550	12.580	12.610	12.640	12.670
772.9	12.700	12.730	12.760	12.790	12.820	12.850	12.880	12.910	12.940	12.970
773.0	13.000	13.030	13.060	13.090	13.120	13.150	13.180	13.210	13.240	13.270
773.1	13.300	13.330	13.360	13.390	13.420	13.450	13.480	13.510	13.540	13.570
773.2	13.600	13.630	13.660	13.690	13.720	13.750	13.780	13.810	13.840	13.870
773.3	13.900	13.930	13.960	13.990	14.020	14.050	14.080	14.110	14.140	14.170
773.4	14.200	14.230	14.260	14.290	14.320	14.350	14.380	14.410	14.440	14.470
773.5	14.500	14.530	14.560	14.590	14.620	14.650	14.680	14.710	14.740	14.770
773.6	14.800	14.830	14.860	14.890	14.920	14.950	14.980	15.010	15.040	15.070
773.7	15.100	15.130	15.160	15.190	15.220	15.250	15.280	15.310	15.340	15.370
773.8	15.400	15.430	15.460	15.490	15.520	15.550	15.580	15.610	15.640	15.670
773.9	15.700	15.730	15.760	15.790	15.820	15.850	15.880	15.910	15.940	15.970
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-3 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
774.0	16.000	16.030	16.060	16.090	16.120	16.150	16.180	16.210	16.240	16.270
774.1	16.300	16.330	16.360	16.390	16.420	16.450	16.480	16.510	16.540	16.570
774.2	16.600	16.630	16.660	16.690	16.720	16.750	16.780	16.810	16.840	16.870
774.3	16.900	16.930	16.960	16.990	17.020	17.050	17.080	17.110	17.140	17.170
774.4	17.200	17.230	17.260	17.290	17.320	17.350	17.380	17.410	17.440	17.470
774.5	17.500	17.530	17.560	17.590	17.620	17.650	17.680	17.710	17.740	17.770
774.6	17.800	17.830	17.860	17.890	17.920	17.950	17.980	18.010	18.040	18.070
774.7	18.100	18.130	18.160	18.190	18.220	18.250	18.280	18.310	18.340	18.370
774.8	18.400	18.430	18.460	18.490	18.520	18.550	18.580	18.610	18.640	18.670
774.9	18.700	18.730	18.760	18.790	18.820	18.850	18.880	18.910	18.940	18.970
775.0	19.000	19.040	19.080	19.120	19.160	19.200	19.240	19.280	19.320	19.360
775.1	19.400	19.440	19.480	19.520	19.560	19.600	19.640	19.680	19.720	19.760
775.2	19.800	19.840	19.880	19.920	19.960	20.000	20.040	20.080	20.120	20.160
775.3	20.200	20.240	20.280	20.320	20.360	20.400	20.440	20.480	20.520	20.560
775.4	20.600	20.640	20.680	20.720	20.760	20.800	20.840	20.880	20.920	20.960
775.5	21.000	21.040	21.080	21.120	21.160	21.200	21.240	21.280	21.320	21.360
775.6	21.400	21.440	21.480	21.520	21.560	21.600	21.640	21.680	21.720	21.760
775.7	21.800	21.840	21.880	21.920	21.960	22.000	22.040	22.080	22.120	22.160
775.8	22.200	22.240	22.280	22.320	22.360	22.400	22.440	22.480	22.520	22.560
775.9	22.600	22.640	22.680	22.720	22.760	22.800	22.840	22.880	22.920	22.960
776.0	23.000	23.040	23.080	23.120	23.160	23.200	23.240	23.280	23.320	23.360
776.1	23.400	23.440	23.480	23.520	23.560	23.600	23.640	23.680	23.720	23.760
776.2	23.800	23.840	23.880	23.920	23.960	24.000	24.040	24.080	24.120	24.160
776.3	24.200	24.240	24.280	24.320	24.360	24.400	24.440	24.480	24.520	24.560
776.4	24.600	24.640	24.680	24.720	24.760	24.800	24.840	24.880	24.920	24.960
776.5	25.000	25.040	25.080	25.120	25.160	25.200	25.240	25.280	25.320	25.360
776.6	25.400	25.440	25.480	25.520	25.560	25.600	25.640	25.680	25.720	25.760
776.7	25.800	25.840	25.880	25.920	25.960	26.000	26.040	26.080	26.120	26.160
776.8	26.200	26.240	26.280	26.320	26.360	26.400	26.440	26.480	26.520	26.560
776.9	26.600	26.640	26.680	26.720	26.760	26.800	26.840	26.880	26.920	26.960
777.0	27.000	27.040	27.080	27.120	27.160	27.200	27.240	27.280	27.320	27.360
777.1	27.400	27.440	27.480	27.520	27.560	27.600	27.640	27.680	27.720	27.760
777.2	27.800	27.840	27.880	27.920	27.960	28.000	28.040	28.080	28.120	28.160
777.3	28.200	28.240	28.280	28.320	28.360	28.400	28.440	28.480	28.520	28.560
777.4	28.600	28.640	28.680	28.720	28.760	28.800	28.840	28.880	28.920	28.960
777.5	29.000	29.040	29.080	29.120	29.160	29.200	29.240	29.280	29.320	29.360
777.6	29.400	29.440	29.480	29.520	29.560	29.600	29.640	29.680	29.720	29.760
777.7	29.800	29.840	29.880	29.920	29.960	30.000	30.040	30.080	30.120	30.160
777.8	30.200	30.240	30.280	30.320	30.360	30.400	30.440	30.480	30.520	30.560
777.9	30.600	30.640	30.680	30.720	30.760	30.800	30.840	30.880	30.920	30.960
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
778.0	31.000	31.040	31.080	31.120	31.160	31.200	31.240	31.280	31.320	31.360
778.1	31.400	31.440	31.480	31.520	31.560	31.600	31.640	31.680	31.720	31.760
778.2	31.800	31.840	31.880	31.920	31.960	32.000	32.040	32.080	32.120	32.160
778.3	32.200	32.240	32.280	32.320	32.360	32.400	32.440	32.480	32.520	32.560
778.4	32.600	32.640	32.680	32.720	32.760	32.800	32.840	32.880	32.920	32.960
778.5	33.000	33.040	33.080	33.120	33.160	33.200	33.240	33.280	33.320	33.360
778.6	33.400	33.440	33.480	33.520	33.560	33.600	33.640	33.680	33.720	33.760
778.7	33.800	33.840	33.880	33.920	33.960	34.000	34.040	34.080	34.120	34.160
778.8	34.200	34.240	34.280	34.320	34.360	34.400	34.440	34.480	34.520	34.560
778.9	34.600	34.640	34.680	34.720	34.760	34.800	34.840	34.880	34.920	34.960
779.0	35.000	35.050	35.100	35.150	35.200	35.250	35.300	35.350	35.400	35.450
779.1	35.500	35.550	35.600	35.650	35.700	35.750	35.800	35.850	35.900	35.950
779.2	36.000	36.050	36.100	36.150	36.200	36.250	36.300	36.350	36.400	36.450
779.3	36.500	36.550	36.600	36.650	36.700	36.750	36.800	36.850	36.900	36.950
779.4	37.000	37.050	37.100	37.150	37.200	37.250	37.300	37.350	37.400	37.450
779.5	37.500	37.550	37.600	37.650	37.700	37.750	37.800	37.850	37.900	37.950
779.6	38.000	38.050	38.100	38.150	38.200	38.250	38.300	38.350	38.400	38.450
779.7	38.500	38.550	38.600	38.650	38.700	38.750	38.800	38.850	38.900	38.950
779.8	39.000	39.050	39.100	39.150	39.200	39.250	39.300	39.350	39.400	39.450
779.9	39.500	39.550	39.600	39.650	39.700	39.750	39.800	39.850	39.900	39.950
780.0	40.000	40.050	40.100	40.150	40.200	40.250	40.300	40.350	40.400	40.450
780.1	40.500	40.550	40.600	40.650	40.700	40.750	40.800	40.850	40.900	40.950
780.2	41.000	41.050	41.100	41.150	41.200	41.250	41.300	41.350	41.400	41.450
780.3	41.500	41.550	41.600	41.650	41.700	41.750	41.800	41.850	41.900	41.950
780.4	42.000	42.050	42.100	42.150	42.200	42.250	42.300	42.350	42.400	42.450
780.5	42.500	42.550	42.600	42.650	42.700	42.750	42.800	42.850	42.900	42.950
780.6	43.000	43.050	43.100	43.150	43.200	43.250	43.300	43.350	43.400	43.450
780.7	43.500	43.550	43.600	43.650	43.700	43.750	43.800	43.850	43.900	43.950
780.8	44.000	44.050	44.100	44.150	44.200	44.250	44.300	44.350	44.400	44.450
780.9	44.500	44.550	44.600	44.650	44.700	44.750	44.800	44.850	44.900	44.950
781.0	45.000	45.050	45.100	45.150	45.200	45.250	45.300	45.350	45.400	45.450
781.1	45.500	45.550	45.600	45.650	45.700	45.750	45.800	45.850	45.900	45.950
781.2	46.000	46.050	46.100	46.150	46.200	46.250	46.300	46.350	46.400	46.450
781.3	46.500	46.550	46.600	46.650	46.700	46.750	46.800	46.850	46.900	46.950
781.4	47.000	47.050	47.100	47.150	47.200	47.250	47.300	47.350	47.400	47.450
781.5	47.500	47.550	47.600	47.650	47.700	47.750	47.800	47.850	47.900	47.950
781.6	48.000	48.050	48.100	48.150	48.200	48.250	48.300	48.350	48.400	48.450
781.7	48.500	48.550	48.600	48.650	48.700	48.750	48.800	48.850	48.900	48.950
781.8	49.000	49.050	49.100	49.150	49.200	49.250	49.300	49.350	49.400	49.450
781.9	49.500	49.550	49.600	49.650	49.700	49.750	49.800	49.850	49.900	49.950
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
782.0	50.000	50.060	50.120	50.180	50.240	50.300	50.360	50.420	50.480	50.540
782.1	50.600	50.660	50.720	50.780	50.840	50.900	50.960	51.020	51.080	51.140
782.2	51.200	51.260	51.320	51.380	51.440	51.500	51.560	51.620	51.680	51.740
782.3	51.800	51.860	51.920	51.980	52.040	52.100	52.160	52.220	52.280	52.340
782.4	52.400	52.460	52.520	52.580	52.640	52.700	52.760	52.820	52.880	52.940
782.5	53.000	53.060	53.120	53.180	53.240	53.300	53.360	53.420	53.480	53.540
782.6	53.600	53.660	53.720	53.780	53.840	53.900	53.960	54.020	54.080	54.140
782.7	54.200	54.260	54.320	54.380	54.440	54.500	54.560	54.620	54.680	54.740
782.8	54.800	54.860	54.920	54.980	55.040	55.100	55.160	55.220	55.280	55.340
782.9	55.400	55.460	55.520	55.580	55.640	55.700	55.760	55.820	55.880	55.940
783.0	56.000	56.070	56.140	56.210	56.280	56.350	56.420	56.490	56.560	56.630
783.1	56.700	56.770	56.840	56.910	56.980	57.050	57.120	57.190	57.260	57.330
783.2	57.400	57.470	57.540	57.610	57.680	57.750	57.820	57.890	57.960	58.030
783.3	58.100	58.170	58.240	58.310	58.380	58.450	58.520	58.590	58.660	58.730
783.4	58.800	58.870	58.940	59.010	59.080	59.150	59.220	59.290	59.360	59.430
783.5	59.500	59.570	59.640	59.710	59.780	59.850	59.920	59.990	60.060	60.130
783.6	60.200	60.270	60.340	60.410	60.480	60.550	60.620	60.690	60.760	60.830
783.7	60.900	60.970	61.040	61.110	61.180	61.250	61.320	61.390	61.460	61.530
783.8	61.600	61.670	61.740	61.810	61.880	61.950	62.020	62.090	62.160	62.230
783.9	62.300	62.370	62.440	62.510	62.580	62.650	62.720	62.790	62.860	62.930
784.0	63.000	63.070	63.140	63.210	63.280	63.350	63.420	63.490	63.560	63.630
784.1	63.700	63.770	63.840	63.910	63.980	64.050	64.120	64.190	64.260	64.330
784.2	64.400	64.470	64.540	64.610	64.680	64.750	64.820	64.890	64.960	65.030
784.3	65.100	65.170	65.240	65.310	65.380	65.450	65.520	65.590	65.660	65.730
784.4	65.800	65.870	65.940	66.010	66.080	66.150	66.220	66.290	66.360	66.430
784.5	66.500	66.570	66.640	66.710	66.780	66.850	66.920	66.990	67.060	67.130
784.6	67.200	67.270	67.340	67.410	67.480	67.550	67.620	67.690	67.760	67.830
784.7	67.900	67.970	68.040	68.110	68.180	68.250	68.320	68.390	68.460	68.530
784.8	68.600	68.670	68.740	68.810	68.880	68.950	69.020	69.090	69.160	69.230
784.9	69.300	69.370	69.440	69.510	69.580	69.650	69.720	69.790	69.860	69.930
785.0	70.000	70.070	70.140	70.210	70.280	70.350	70.420	70.490	70.560	70.630
785.1	70.700	70.770	70.840	70.910	70.980	71.050	71.120	71.190	71.260	71.330
785.2	71.400	71.470	71.540	71.610	71.680	71.750	71.820	71.890	71.960	72.030
785.3	72.100	72.170	72.240	72.310	72.380	72.450	72.520	72.590	72.660	72.730
785.4	72.800	72.870	72.940	73.010	73.080	73.150	73.220	73.290	73.360	73.430
785.5	73.500	73.570	73.640	73.710	73.780	73.850	73.920	73.990	74.060	74.130
785.6	74.200	74.270	74.340	74.410	74.480	74.550	74.620	74.690	74.760	74.830
785.7	74.900	74.970	75.040	75.110	75.180	75.250	75.320	75.390	75.460	75.530
785.8	75.600	75.670	75.740	75.810	75.880	75.950	76.020	76.090	76.160	76.230
785.9	76.300	76.370	76.440	76.510	76.580	76.650	76.720	76.790	76.860	76.930
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
786.0	77.000	77.070	77.140	77.210	77.280	77.350	77.420	77.490	77.560	77.630
786.1	77.700	77.770	77.840	77.910	77.980	78.050	78.120	78.190	78.260	78.330
786.2	78.400	78.470	78.540	78.610	78.680	78.750	78.820	78.890	78.960	79.030
786.3	79.100	79.170	79.240	79.310	79.380	79.450	79.520	79.590	79.660	79.730
786.4	79.800	79.870	79.940	80.010	80.080	80.150	80.220	80.290	80.360	80.430
786.5	80.500	80.570	80.640	80.710	80.780	80.850	80.920	80.990	81.060	81.130
786.6	81.200	81.270	81.340	81.410	81.480	81.550	81.620	81.690	81.760	81.830
786.7	81.900	81.970	82.040	82.110	82.180	82.250	82.320	82.390	82.460	82.530
786.8	82.600	82.670	82.740	82.810	82.880	82.950	83.020	83.090	83.160	83.230
786.9	83.300	83.370	83.440	83.510	83.580	83.650	83.720	83.790	83.860	83.930
787.0	84.000	84.080	84.160	84.240	84.320	84.400	84.480	84.560	84.640	84.720
787.1	84.800	84.880	84.960	85.040	85.120	85.200	85.280	85.360	85.440	85.520
787.2	85.600	85.680	85.760	85.840	85.920	86.000	86.080	86.160	86.240	86.320
787.3	86.400	86.480	86.560	86.640	86.720	86.800	86.880	86.960	87.040	87.120
787.4	87.200	87.280	87.360	87.440	87.520	87.600	87.680	87.760	87.840	87.920
787.5	88.000	88.080	88.160	88.240	88.320	88.400	88.480	88.560	88.640	88.720
787.6	88.800	88.880	88.960	89.040	89.120	89.200	89.280	89.360	89.440	89.520
787.7	89.600	89.680	89.760	89.840	89.920	90.000	90.080	90.160	90.240	90.320
787.8	90.400	90.480	90.560	90.640	90.720	90.800	90.880	90.960	91.040	91.120
787.9	91.200	91.280	91.360	91.440	91.520	91.600	91.680	91.760	91.840	91.920
788.0	92.000	92.100	92.200	92.300	92.400	92.500	92.600	92.700	92.800	92.900
788.1	93.000	93.100	93.200	93.300	93.400	93.500	93.600	93.700	93.800	93.900
788.2	94.000	94.100	94.200	94.300	94.400	94.500	94.600	94.700	94.800	94.900
788.3	95.000	95.100	95.200	95.300	95.400	95.500	95.600	95.700	95.800	95.900
788.4	96.000	96.100	96.200	96.300	96.400	96.500	96.600	96.700	96.800	96.900
788.5	97.000	97.100	97.200	97.300	97.400	97.500	97.600	97.700	97.800	97.900
788.6	98.000	98.100	98.200	98.300	98.400	98.500	98.600	98.700	98.800	98.900
788.7	99.000	99.100	99.200	99.300	99.400	99.500	99.600	99.700	99.800	99.900
788.8	100.000	100.100	100.200	100.300	100.400	100.500	100.600	100.700	100.800	100.900
788.9	101.000	101.100	101.200	101.300	101.400	101.500	101.600	101.700	101.800	101.900
789.0	102.000	102.120	102.240	102.360	102.480	102.600	102.720	102.840	102.960	103.080
789.1	103.200	103.320	103.440	103.560	103.680	103.800	103.920	104.040	104.160	104.280
789.2	104.400	104.520	104.640	104.760	104.880	105.000	105.120	105.240	105.360	105.480
789.3	105.600	105.720	105.840	105.960	106.080	106.200	106.320	106.440	106.560	106.680
789.4	106.800	106.920	107.040	107.160	107.280	107.400	107.520	107.640	107.760	107.880
789.5	108.000	108.120	108.240	108.360	108.480	108.600	108.720	108.840	108.960	109.080
789.6	109.200	109.320	109.440	109.560	109.680	109.800	109.920	110.040	110.160	110.280
789.7	110.400	110.520	110.640	110.760	110.880	111.000	111.120	111.240	111.360	111.480
789.8	111.600	111.720	111.840	111.960	112.080	112.200	112.320	112.440	112.560	112.680
789.9	112.800	112.920	113.040	113.160	113.280	113.400	113.520	113.640	113.760	113.880
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
790.0	114.000	114.160	114.320	114.480	114.640	114.800	114.960	115.120	115.280	115.440
790.1	115.600	115.760	115.920	116.080	116.240	116.400	116.560	116.720	116.880	117.040
790.2	117.200	117.360	117.520	117.680	117.840	118.000	118.160	118.320	118.480	118.640
790.3	118.800	118.960	119.120	119.280	119.440	119.600	119.760	119.920	120.080	120.240
790.4	120.400	120.560	120.720	120.880	121.040	121.200	121.360	121.520	121.680	121.840
790.5	122.000	122.160	122.320	122.480	122.640	122.800	122.960	123.120	123.280	123.440
790.6	123.600	123.760	123.920	124.080	124.240	124.400	124.560	124.720	124.880	125.040
790.7	125.200	125.360	125.520	125.680	125.840	126.000	126.160	126.320	126.480	126.640
790.8	126.800	126.960	127.120	127.280	127.440	127.600	127.760	127.920	128.080	128.240
790.9	128.400	128.560	128.720	128.880	129.040	129.200	129.360	129.520	129.680	129.840
791.0	130.000	130.160	130.320	130.480	130.640	130.800	130.960	131.120	131.280	131.440
791.1	131.600	131.760	131.920	132.080	132.240	132.400	132.560	132.720	132.880	133.040
791.2	133.200	133.360	133.520	133.680	133.840	134.000	134.160	134.320	134.480	134.640
791.3	134.800	134.960	135.120	135.280	135.440	135.600	135.760	135.920	136.080	136.240
791.4	136.400	136.560	136.720	136.880	137.040	137.200	137.360	137.520	137.680	137.840
791.5	138.000	138.160	138.320	138.480	138.640	138.800	138.960	139.120	139.280	139.440
791.6	139.600	139.760	139.920	140.080	140.240	140.400	140.560	140.720	140.880	141.040
791.7	141.200	141.360	141.520	141.680	141.840	142.000	142.160	142.320	142.480	142.640
791.8	142.800	142.960	143.120	143.280	143.440	143.600	143.760	143.920	144.080	144.240
791.9	144.400	144.560	144.720	144.880	145.040	145.200	145.360	145.520	145.680	145.840
792.0	146.000	146.180	146.360	146.540	146.720	146.900	147.080	147.260	147.440	147.620
792.1	147.800	147.980	148.160	148.340	148.520	148.700	148.880	149.060	149.240	149.420
792.2	149.600	149.780	149.960	150.140	150.320	150.500	150.680	150.860	151.040	151.220
792.3	151.400	151.580	151.760	151.940	152.120	152.300	152.480	152.660	152.840	153.020
792.4	153.200	153.380	153.560	153.740	153.920	154.100	154.280	154.460	154.640	154.820
792.5	155.000	155.180	155.360	155.540	155.720	155.900	156.080	156.260	156.440	156.620
792.6	156.800	156.980	157.160	157.340	157.520	157.700	157.880	158.060	158.240	158.420
792.7	158.600	158.780	158.960	159.140	159.320	159.500	159.680	159.860	160.040	160.220
792.8	160.400	160.580	160.760	160.940	161.120	161.300	161.480	161.660	161.840	162.020
792.9	162.200	162.380	162.560	162.740	162.920	163.100	163.280	163.460	163.640	163.820
793.0	164.000	164.180	164.360	164.540	164.720	164.900	165.080	165.260	165.440	165.620
793.1	165.800	165.980	166.160	166.340	166.520	166.700	166.880	167.060	167.240	167.420
793.2	167.600	167.780	167.960	168.140	168.320	168.500	168.680	168.860	169.040	169.220
793.3	169.400	169.580	169.760	169.940	170.120	170.300	170.480	170.660	170.840	171.020
793.4	171.200	171.380	171.560	171.740	171.920	172.100	172.280	172.460	172.640	172.820
793.5	173.000	173.180	173.360	173.540	173.720	173.900	174.080	174.260	174.440	174.620
793.6	174.800	174.980	175.160	175.340	175.520	175.700	175.880	176.060	176.240	176.420
793.7	176.600	176.780	176.960	177.140	177.320	177.500	177.680	177.860	178.040	178.220
793.8	178.400	178.580	178.760	178.940	179.120	179.300	179.480	179.660	179.840	180.020
793.9	180.200	180.380	180.560	180.740	180.920	181.100	181.280	181.460	181.640	181.820
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
794.0	182.000	182.160	182.320	182.480	182.640	182.800	182.960	183.120	183.280	183.440
794.1	183.600	183.760	183.920	184.080	184.240	184.400	184.560	184.720	184.880	185.040
794.2	185.200	185.360	185.520	185.680	185.840	186.000	186.160	186.320	186.480	186.640
794.3	186.800	186.960	187.120	187.280	187.440	187.600	187.760	187.920	188.080	188.240
794.4	188.400	188.560	188.720	188.880	189.040	189.200	189.360	189.520	189.680	189.840
794.5	190.000	190.160	190.320	190.480	190.640	190.800	190.960	191.120	191.280	191.440
794.6	191.600	191.760	191.920	192.080	192.240	192.400	192.560	192.720	192.880	193.040
794.7	193.200	193.360	193.520	193.680	193.840	194.000	194.160	194.320	194.480	194.640
794.8	194.800	194.960	195.120	195.280	195.440	195.600	195.760	195.920	196.080	196.240
794.9	196.400	196.560	196.720	196.880	197.040	197.200	197.360	197.520	197.680	197.840
795.0	198.000	198.160	198.320	198.480	198.640	198.800	198.960	199.120	199.280	199.440
795.1	199.600	199.760	199.920	200.080	200.240	200.400	200.560	200.720	200.880	201.040
795.2	201.200	201.360	201.520	201.680	201.840	202.000	202.160	202.320	202.480	202.640
795.3	202.800	202.960	203.120	203.280	203.440	203.600	203.760	203.920	204.080	204.240
795.4	204.400	204.560	204.720	204.880	205.040	205.200	205.360	205.520	205.680	205.840
795.5	206.000	206.160	206.320	206.480	206.640	206.800	206.960	207.120	207.280	207.440
795.6	207.600	207.760	207.920	208.080	208.240	208.400	208.560	208.720	208.880	209.040
795.7	209.200	209.360	209.520	209.680	209.840	210.000	210.160	210.320	210.480	210.640
795.8	210.800	210.960	211.120	211.280	211.440	211.600	211.760	211.920	212.080	212.240
795.9	212.400	212.560	212.720	212.880	213.040	213.200	213.360	213.520	213.680	213.840
796.0	214.000	214.170	214.340	214.510	214.680	214.850	215.020	215.190	215.360	215.530
796.1	215.700	215.870	216.040	216.210	216.380	216.550	216.720	216.890	217.060	217.230
796.2	217.400	217.570	217.740	217.910	218.080	218.250	218.420	218.590	218.760	218.930
796.3	219.100	219.270	219.440	219.610	219.780	219.950	220.120	220.290	220.460	220.630
796.4	220.800	220.970	221.140	221.310	221.480	221.650	221.820	221.990	222.160	222.330
796.5	222.500	222.670	222.840	223.010	223.180	223.350	223.520	223.690	223.860	224.030
796.6	224.200	224.370	224.540	224.710	224.880	225.050	225.220	225.390	225.560	225.730
796.7	225.900	226.070	226.240	226.410	226.580	226.750	226.920	227.090	227.260	227.430
796.8	227.600	227.770	227.940	228.110	228.280	228.450	228.620	228.790	228.960	229.130
796.9	229.300	229.470	229.640	229.810	229.980	230.150	230.320	230.490	230.660	230.830
797.0	231.000	231.200	231.400	231.600	231.800	232.000	232.200	232.400	232.600	232.800
797.1	233.000	233.200	233.400	233.600	233.800	234.000	234.200	234.400	234.600	234.800
797.2	235.000	235.200	235.400	235.600	235.800	236.000	236.200	236.400	236.600	236.800
797.3	237.000	237.200	237.400	237.600	237.800	238.000	238.200	238.400	238.600	238.800
797.4	239.000	239.200	239.400	239.600	239.800	240.000	240.200	240.400	240.600	240.800
797.5	241.000	241.200	241.400	241.600	241.800	242.000	242.200	242.400	242.600	242.800
797.6	243.000	243.200	243.400	243.600	243.800	244.000	244.200	244.400	244.600	244.800
797.7	245.000	245.200	245.400	245.600	245.800	246.000	246.200	246.400	246.600	246.800
797.8	247.000	247.200	247.400	247.600	247.800	248.000	248.200	248.400	248.600	248.800
797.9	249.000	249.200	249.400	249.600	249.800	250.000	250.200	250.400	250.600	250.800
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
798.0	251.000	251.230	251.460	251.690	251.920	252.150	252.380	252.610	252.840	253.070
798.1	253.300	253.530	253.760	253.990	254.220	254.450	254.680	254.910	255.140	255.370
798.2	255.600	255.830	256.060	256.290	256.520	256.750	256.980	257.210	257.440	257.670
798.3	257.900	258.130	258.360	258.590	258.820	259.050	259.280	259.510	259.740	259.970
798.4	260.200	260.430	260.660	260.890	261.120	261.350	261.580	261.810	262.040	262.270
798.5	262.500	262.730	262.960	263.190	263.420	263.650	263.880	264.110	264.340	264.570
798.6	264.800	265.030	265.260	265.490	265.720	265.950	266.180	266.410	266.640	266.870
798.7	267.100	267.330	267.560	267.790	268.020	268.250	268.480	268.710	268.940	269.170
798.8	269.400	269.630	269.860	270.090	270.320	270.550	270.780	271.010	271.240	271.470
798.9	271.700	271.930	272.160	272.390	272.620	272.850	273.080	273.310	273.540	273.770
799.0	274.000	274.250	274.500	274.750	275.000	275.250	275.500	275.750	276.000	276.250
799.1	276.500	276.750	277.000	277.250	277.500	277.750	278.000	278.250	278.500	278.750
799.2	279.000	279.250	279.500	279.750	280.000	280.250	280.500	280.750	281.000	281.250
799.3	281.500	281.750	282.000	282.250	282.500	282.750	283.000	283.250	283.500	283.750
799.4	284.000	284.250	284.500	284.750	285.000	285.250	285.500	285.750	286.000	286.250
799.5	286.500	286.750	287.000	287.250	287.500	287.750	288.000	288.250	288.500	288.750
799.6	289.000	289.250	289.500	289.750	290.000	290.250	290.500	290.750	291.000	291.250
799.7	291.500	291.750	292.000	292.250	292.500	292.750	293.000	293.250	293.500	293.750
799.8	294.000	294.250	294.500	294.750	295.000	295.250	295.500	295.750	296.000	296.250
799.9	296.500	296.750	297.000	297.250	297.500	297.750	298.000	298.250	298.500	298.750
800.0	299.000	299.260	299.520	299.780	300.040	300.300	300.560	300.820	301.080	301.340
800.1	301.600	301.860	302.120	302.380	302.640	302.900	303.160	303.420	303.680	303.940
800.2	304.200	304.460	304.720	304.980	305.240	305.500	305.760	306.020	306.280	306.540
800.3	306.800	307.060	307.320	307.580	307.840	308.100	308.360	308.620	308.880	309.140
800.4	309.400	309.660	309.920	310.180	310.440	310.700	310.960	311.220	311.480	311.740
800.5	312.000	312.260	312.520	312.780	313.040	313.300	313.560	313.820	314.080	314.340
800.6	314.600	314.860	315.120	315.380	315.640	315.900	316.160	316.420	316.680	316.940
800.7	317.200	317.460	317.720	317.980	318.240	318.500	318.760	319.020	319.280	319.540
800.8	319.800	320.060	320.320	320.580	320.840	321.100	321.360	321.620	321.880	322.140
800.9	322.400	322.660	322.920	323.180	323.440	323.700	323.960	324.220	324.480	324.740
801.0	325.000	325.240	325.480	325.720	325.960	326.200	326.440	326.680	326.920	327.160
801.1	327.400	327.640	327.880	328.120	328.360	328.600	328.840	329.080	329.320	329.560
801.2	329.800	330.040	330.280	330.520	330.760	331.000	331.240	331.480	331.720	331.960
801.3	332.200	332.440	332.680	332.920	333.160	333.400	333.640	333.880	334.120	334.360
801.4	334.600	334.840	335.080	335.320	335.560	335.800	336.040	336.280	336.520	336.760
801.5	337.000	337.240	337.480	337.720	337.960	338.200	338.440	338.680	338.920	339.160
801.6	339.400	339.640	339.880	340.120	340.360	340.600	340.840	341.080	341.320	341.560
801.7	341.800	342.040	342.280	342.520	342.760	343.000	343.240	343.480	343.720	343.960
801.8	344.200	344.440	344.680	344.920	345.160	345.400	345.640	345.880	346.120	346.360
801.9	346.600	346.840	347.080	347.320	347.560	347.800	348.040	348.280	348.520	348.760
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
802.0	349.000	349.260	349.520	349.780	350.040	350.300	350.560	350.820	351.080	351.340
802.1	351.600	351.860	352.120	352.380	352.640	352.900	353.160	353.420	353.680	353.940
802.2	354.200	354.460	354.720	354.980	355.240	355.500	355.760	356.020	356.280	356.540
802.3	356.800	357.060	357.320	357.580	357.840	358.100	358.360	358.620	358.880	359.140
802.4	359.400	359.660	359.920	360.180	360.440	360.700	360.960	361.220	361.480	361.740
802.5	362.000	362.260	362.520	362.780	363.040	363.300	363.560	363.820	364.080	364.340
802.6	364.600	364.860	365.120	365.380	365.640	365.900	366.160	366.420	366.680	366.940
802.7	367.200	367.460	367.720	367.980	368.240	368.500	368.760	369.020	369.280	369.540
802.8	369.800	370.060	370.320	370.580	370.840	371.100	371.360	371.620	371.880	372.140
802.9	372.400	372.660	372.920	373.180	373.440	373.700	373.960	374.220	374.480	374.740
803.0	375.000	375.300	375.600	375.900	376.200	376.500	376.800	377.100	377.400	377.700
803.1	378.000	378.300	378.600	378.900	379.200	379.500	379.800	380.100	380.400	380.700
803.2	381.000	381.300	381.600	381.900	382.200	382.500	382.800	383.100	383.400	383.700
803.3	384.000	384.300	384.600	384.900	385.200	385.500	385.800	386.100	386.400	386.700
803.4	387.000	387.300	387.600	387.900	388.200	388.500	388.800	389.100	389.400	389.700
803.5	390.000	390.300	390.600	390.900	391.200	391.500	391.800	392.100	392.400	392.700
803.6	393.000	393.300	393.600	393.900	394.200	394.500	394.800	395.100	395.400	395.700
803.7	396.000	396.300	396.600	396.900	397.200	397.500	397.800	398.100	398.400	398.700
803.8	399.000	399.300	399.600	399.900	400.200	400.500	400.800	401.100	401.400	401.700
803.9	402.000	402.300	402.600	402.900	403.200	403.500	403.800	404.100	404.400	404.700
804.0	405.000	405.340	405.680	406.020	406.360	406.700	407.040	407.380	407.720	408.060
804.1	408.400	408.740	409.080	409.420	409.760	410.100	410.440	410.780	411.120	411.460
804.2	411.800	412.140	412.480	412.820	413.160	413.500	413.840	414.180	414.520	414.860
804.3	415.200	415.540	415.880	416.220	416.560	416.900	417.240	417.580	417.920	418.260
804.4	418.600	418.940	419.280	419.620	419.960	420.300	420.640	420.980	421.320	421.660
804.5	422.000	422.340	422.680	423.020	423.360	423.700	424.040	424.380	424.720	425.060
804.6	425.400	425.740	426.080	426.420	426.760	427.100	427.440	427.780	428.120	428.460
804.7	428.800	429.140	429.480	429.820	430.160	430.500	430.840	431.180	431.520	431.860
804.8	432.200	432.540	432.880	433.220	433.560	433.900	434.240	434.580	434.920	435.260
804.9	435.600	435.940	436.280	436.620	436.960	437.300	437.640	437.980	438.320	438.660
805.0	439.000	439.310	439.620	439.930	440.240	440.550	440.860	441.170	441.480	441.790
805.1	442.100	442.410	442.720	443.030	443.340	443.650	443.960	444.270	444.580	444.890
805.2	445.200	445.510	445.820	446.130	446.440	446.750	447.060	447.370	447.680	447.990
805.3	448.300	448.610	448.920	449.230	449.540	449.850	450.160	450.470	450.780	451.090
805.4	451.400	451.710	452.020	452.330	452.640	452.950	453.260	453.570	453.880	454.190
805.5	454.500	454.810	455.120	455.430	455.740	456.050	456.360	456.670	456.980	457.290
805.6	457.600	457.910	458.220	458.530	458.840	459.150	459.460	459.770	460.080	460.390
805.7	460.700	461.010	461.320	461.630	461.940	462.250	462.560	462.870	463.180	463.490
805.8	463.800	464.110	464.420	464.730	465.040	465.350	465.660	465.970	466.280	466.590
805.9	466.900	467.210	467.520	467.830	468.140	468.450	468.760	469.070	469.380	469.690
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
806.0	470.000	470.310	470.620	470.930	471.240	471.550	471.860	472.170	472.480	472.790
806.1	473.100	473.410	473.720	474.030	474.340	474.650	474.960	475.270	475.580	475.890
806.2	476.200	476.510	476.820	477.130	477.440	477.750	478.060	478.370	478.680	478.990
806.3	479.300	479.610	479.920	480.230	480.540	480.850	481.160	481.470	481.780	482.090
806.4	482.400	482.710	483.020	483.330	483.640	483.950	484.260	484.570	484.880	485.190
806.5	485.500	485.810	486.120	486.430	486.740	487.050	487.360	487.670	487.980	488.290
806.6	488.600	488.910	489.220	489.530	489.840	490.150	490.460	490.770	491.080	491.390
806.7	491.700	492.010	492.320	492.630	492.940	493.250	493.560	493.870	494.180	494.490
806.8	494.800	495.110	495.420	495.730	496.040	496.350	496.660	496.970	497.280	497.590
806.9	497.900	498.210	498.520	498.830	499.140	499.450	499.760	500.070	500.380	500.690
807.0	501.000	501.320	501.640	501.960	502.280	502.600	502.920	503.240	503.560	503.880
807.1	504.200	504.520	504.840	505.160	505.480	505.800	506.120	506.440	506.760	507.080
807.2	507.400	507.720	508.040	508.360	508.680	509.000	509.320	509.640	509.960	510.280
807.3	510.600	510.920	511.240	511.560	511.880	512.200	512.520	512.840	513.160	513.480
807.4	513.800	514.120	514.440	514.760	515.080	515.400	515.720	516.040	516.360	516.680
807.5	517.000	517.320	517.640	517.960	518.280	518.600	518.920	519.240	519.560	519.880
807.6	520.200	520.520	520.840	521.160	521.480	521.800	522.120	522.440	522.760	523.080
807.7	523.400	523.720	524.040	524.360	524.680	525.000	525.320	525.640	525.960	526.280
807.8	526.600	526.920	527.240	527.560	527.880	528.200	528.520	528.840	529.160	529.480
807.9	529.800	530.120	530.440	530.760	531.080	531.400	531.720	532.040	532.360	532.680
808.0	533.000	533.320	533.640	533.960	534.280	534.600	534.920	535.240	535.560	535.880
808.1	536.200	536.520	536.840	537.160	537.480	537.800	538.120	538.440	538.760	539.080
808.2	539.400	539.720	540.040	540.360	540.680	541.000	541.320	541.640	541.960	542.280
808.3	542.600	542.920	543.240	543.560	543.880	544.200	544.520	544.840	545.160	545.480
808.4	545.800	546.120	546.440	546.760	547.080	547.400	547.720	548.040	548.360	548.680
808.5	549.000	549.320	549.640	549.960	550.280	550.600	550.920	551.240	551.560	551.880
808.6	552.200	552.520	552.840	553.160	553.480	553.800	554.120	554.440	554.760	555.080
808.7	555.400	555.720	556.040	556.360	556.680	557.000	557.320	557.640	557.960	558.280
808.8	558.600	558.920	559.240	559.560	559.880	560.200	560.520	560.840	561.160	561.480
808.9	561.800	562.120	562.440	562.760	563.080	563.400	563.720	564.040	564.360	564.680
809.0	565.000	565.340	565.680	566.020	566.360	566.700	567.040	567.380	567.720	568.060
809.1	568.400	568.740	569.080	569.420	569.760	570.100	570.440	570.780	571.120	571.460
809.2	571.800	572.140	572.480	572.820	573.160	573.500	573.840	574.180	574.520	574.860
809.3	575.200	575.540	575.880	576.220	576.560	576.900	577.240	577.580	577.920	578.260
809.4	578.600	578.940	579.280	579.620	579.960	580.300	580.640	580.980	581.320	581.660
809.5	582.000	582.340	582.680	583.020	583.360	583.700	584.040	584.380	584.720	585.060
809.6	585.400	585.740	586.080	586.420	586.760	587.100	587.440	587.780	588.120	588.460
809.7	588.800	589.140	589.480	589.820	590.160	590.500	590.840	591.180	591.520	591.860
809.8	592.200	592.540	592.880	593.220	593.560	593.900	594.240	594.580	594.920	595.260
809.9	595.600	595.940	596.280	596.620	596.960	597.300	597.640	597.980	598.320	598.660
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
810.0	599.000	599.410	599.820	600.230	600.640	601.050	601.460	601.870	602.280	602.690
810.1	603.100	603.510	603.920	604.330	604.740	605.150	605.560	605.970	606.380	606.790
810.2	607.200	607.610	608.020	608.430	608.840	609.250	609.660	610.070	610.480	610.890
810.3	611.300	611.710	612.120	612.530	612.940	613.350	613.760	614.170	614.580	614.990
810.4	615.400	615.810	616.220	616.630	617.040	617.450	617.860	618.270	618.680	619.090
810.5	619.500	619.910	620.320	620.730	621.140	621.550	621.960	622.370	622.780	623.190
810.6	623.600	624.010	624.420	624.830	625.240	625.650	626.060	626.470	626.880	627.290
810.7	627.700	628.110	628.520	628.930	629.340	629.750	630.160	630.570	630.980	631.390
810.8	631.800	632.210	632.620	633.030	633.440	633.850	634.260	634.670	635.080	635.490
810.9	635.900	636.310	636.720	637.130	637.540	637.950	638.360	638.770	639.180	639.590
811.0	640.000	640.430	640.860	641.290	641.720	642.150	642.580	643.010	643.440	643.870
811.1	644.300	644.730	645.160	645.590	646.020	646.450	646.880	647.310	647.740	648.170
811.2	648.600	649.030	649.460	649.890	650.320	650.750	651.180	651.610	652.040	652.470
811.3	652.900	653.330	653.760	654.190	654.620	655.050	655.480	655.910	656.340	656.770
811.4	657.200	657.630	658.060	658.490	658.920	659.350	659.780	660.210	660.640	661.070
811.5	661.500	661.930	662.360	662.790	663.220	663.650	664.080	664.510	664.940	665.370
811.6	665.800	666.230	666.660	667.090	667.520	667.950	668.380	668.810	669.240	669.670
811.7	670.100	670.530	670.960	671.390	671.820	672.250	672.680	673.110	673.540	673.970
811.8	674.400	674.830	675.260	675.690	676.120	676.550	676.980	677.410	677.840	678.270
811.9	678.700	679.130	679.560	679.990	680.420	680.850	681.280	681.710	682.140	682.570
812.0	683.000	683.430	683.860	684.290	684.720	685.150	685.580	686.010	686.440	686.870
812.1	687.300	687.730	688.160	688.590	689.020	689.450	689.880	690.310	690.740	691.170
812.2	691.600	692.030	692.460	692.890	693.320	693.750	694.180	694.610	695.040	695.470
812.3	695.900	696.330	696.760	697.190	697.620	698.050	698.480	698.910	699.340	699.770
812.4	700.200	700.630	701.060	701.490	701.920	702.350	702.780	703.210	703.640	704.070
812.5	704.500	704.930	705.360	705.790	706.220	706.650	707.080	707.510	707.940	708.370
812.6	708.800	709.230	709.660	710.090	710.520	710.950	711.380	711.810	712.240	712.670
812.7	713.100	713.530	713.960	714.390	714.820	715.250	715.680	716.110	716.540	716.970
812.8	717.400	717.830	718.260	718.690	719.120	719.550	719.980	720.410	720.840	721.270
812.9	721.700	722.130	722.560	722.990	723.420	723.850	724.280	724.710	725.140	725.570
813.0	726.000	726.460	726.920	727.380	727.840	728.300	728.760	729.220	729.680	730.140
813.1	730.600	731.060	731.520	731.980	732.440	732.900	733.360	733.820	734.280	734.740
813.2	735.200	735.660	736.120	736.580	737.040	737.500	737.960	738.420	738.880	739.340
813.3	739.800	740.260	740.720	741.180	741.640	742.100	742.560	743.020	743.480	743.940
813.4	744.400	744.860	745.320	745.780	746.240	746.700	747.160	747.620	748.080	748.540
813.5	749.000	749.460	749.920	750.380	750.840	751.300	751.760	752.220	752.680	753.140
813.6	753.600	754.060	754.520	754.980	755.440	755.900	756.360	756.820	757.280	757.740
813.7	758.200	758.660	759.120	759.580	760.040	760.500	760.960	761.420	761.880	762.340
813.8	762.800	763.260	763.720	764.180	764.640	765.100	765.560	766.020	766.480	766.940
813.9	767.400	767.860	768.320	768.780	769.240	769.700	770.160	770.620	771.080	771.540
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
814.0	772.000	772.430	772.860	773.290	773.720	774.150	774.580	775.010	775.440	775.870
814.1	776.300	776.730	777.160	777.590	778.020	778.450	778.880	779.310	779.740	780.170
814.2	780.600	781.030	781.460	781.890	782.320	782.750	783.180	783.610	784.040	784.470
814.3	784.900	785.330	785.760	786.190	786.620	787.050	787.480	787.910	788.340	788.770
814.4	789.200	789.630	790.060	790.490	790.920	791.350	791.780	792.210	792.640	793.070
814.5	793.500	793.930	794.360	794.790	795.220	795.650	796.080	796.510	796.940	797.370
814.6	797.800	798.230	798.660	799.090	799.520	799.950	800.380	800.810	801.240	801.670
814.7	802.100	802.530	802.960	803.390	803.820	804.250	804.680	805.110	805.540	805.970
814.8	806.400	806.830	807.260	807.690	808.120	808.550	808.980	809.410	809.840	810.270
814.9	810.700	811.130	811.560	811.990	812.420	812.850	813.280	813.710	814.140	814.570
815.0	815.000	815.450	815.900	816.350	816.800	817.250	817.700	818.150	818.600	819.050
815.1	819.500	819.950	820.400	820.850	821.300	821.750	822.200	822.650	823.100	823.550
815.2	824.000	824.450	824.900	825.350	825.800	826.250	826.700	827.150	827.600	828.050
815.3	828.500	828.950	829.400	829.850	830.300	830.750	831.200	831.650	832.100	832.550
815.4	833.000	833.450	833.900	834.350	834.800	835.250	835.700	836.150	836.600	837.050
815.5	837.500	837.950	838.400	838.850	839.300	839.750	840.200	840.650	841.100	841.550
815.6	842.000	842.450	842.900	843.350	843.800	844.250	844.700	845.150	845.600	846.050
815.7	846.500	846.950	847.400	847.850	848.300	848.750	849.200	849.650	850.100	850.550
815.8	851.000	851.450	851.900	852.350	852.800	853.250	853.700	854.150	854.600	855.050
815.9	855.500	855.950	856.400	856.850	857.300	857.750	858.200	858.650	859.100	859.550
816.0	860.000	860.440	860.880	861.320	861.760	862.200	862.640	863.080	863.520	863.960
816.1	864.400	864.840	865.280	865.720	866.160	866.600	867.040	867.480	867.920	868.360
816.2	868.800	869.240	869.680	870.120	870.560	871.000	871.440	871.880	872.320	872.760
816.3	873.200	873.640	874.080	874.520	874.960	875.400	875.840	876.280	876.720	877.160
816.4	877.600	878.040	878.480	878.920	879.360	879.800	880.240	880.680	881.120	881.560
816.5	882.000	882.440	882.880	883.320	883.760	884.200	884.640	885.080	885.520	885.960
816.6	886.400	886.840	887.280	887.720	888.160	888.600	889.040	889.480	889.920	890.360
816.7	890.800	891.240	891.680	892.120	892.560	893.000	893.440	893.880	894.320	894.760
816.8	895.200	895.640	896.080	896.520	896.960	897.400	897.840	898.280	898.720	899.160
816.9	899.600	900.040	900.480	900.920	901.360	901.800	902.240	902.680	903.120	903.560
817.0	904.000	904.440	904.880	905.320	905.760	906.200	906.640	907.080	907.520	907.960
817.1	908.400	908.840	909.280	909.720	910.160	910.600	911.040	911.480	911.920	912.360
817.2	912.800	913.240	913.680	914.120	914.560	915.000	915.440	915.880	916.320	916.760
817.3	917.200	917.640	918.080	918.520	918.960	919.400	919.840	920.280	920.720	921.160
817.4	921.600	922.040	922.480	922.920	923.360	923.800	924.240	924.680	925.120	925.560
817.5	926.000	926.440	926.880	927.320	927.760	928.200	928.640	929.080	929.520	929.960
817.6	930.400	930.840	931.280	931.720	932.160	932.600	933.040	933.480	933.920	934.360
817.7	934.800	935.240	935.680	936.120	936.560	937.000	937.440	937.880	938.320	938.760
817.8	939.200	939.640	940.080	940.520	940.960	941.400	941.840	942.280	942.720	943.160
817.9	943.600	944.040	944.480	944.920	945.360	945.800	946.240	946.680	947.120	947.560
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
818.0	948.000	948.440	948.880	949.320	949.760	950.200	950.640	951.080	951.520	951.960
818.1	952.400	952.840	953.280	953.720	954.160	954.600	955.040	955.480	955.920	956.360
818.2	956.800	957.240	957.680	958.120	958.560	959.000	959.440	959.880	960.320	960.760
818.3	961.200	961.640	962.080	962.520	962.960	963.400	963.840	964.280	964.720	965.160
818.4	965.600	966.040	966.480	966.920	967.360	967.800	968.240	968.680	969.120	969.560
818.5	970.000	970.440	970.880	971.320	971.760	972.200	972.640	973.080	973.520	973.960
818.6	974.400	974.840	975.280	975.720	976.160	976.600	977.040	977.480	977.920	978.360
818.7	978.800	979.240	979.680	980.120	980.560	981.000	981.440	981.880	982.320	982.760
818.8	983.200	983.640	984.080	984.520	984.960	985.400	985.840	986.280	986.720	987.160
818.9	987.600	988.040	988.480	988.920	989.360	989.800	990.240	990.680	991.120	991.560
819.0	992.000	992.440	992.880	993.320	993.760	994.200	994.640	995.080	995.520	995.960
819.1	996.400	996.840	997.280	997.720	998.160	998.600	999.040	999.480	999.920	1000.360
819.2	1000.800	1001.240	1001.680	1002.120	1002.560	1003.000	1003.440	1003.880	1004.320	1004.760
819.3	1005.200	1005.640	1006.080	1006.520	1006.960	1007.400	1007.840	1008.280	1008.720	1009.160
819.4	1009.600	1010.040	1010.480	1010.920	1011.360	1011.800	1012.240	1012.680	1013.120	1013.560
819.5	1014.000	1014.440	1014.880	1015.320	1015.760	1016.200	1016.640	1017.080	1017.520	1017.960
819.6	1018.400	1018.840	1019.280	1019.720	1020.160	1020.600	1021.040	1021.480	1021.920	1022.360
819.7	1022.800	1023.240	1023.680	1024.120	1024.560	1025.000	1025.440	1025.880	1026.320	1026.760
819.8	1027.200	1027.640	1028.080	1028.520	1028.960	1029.400	1029.840	1030.280	1030.720	1031.160
819.9	1031.600	1032.040	1032.480	1032.920	1033.360	1033.800	1034.240	1034.680	1035.120	1035.560
820.0	1036.000	1036.410	1036.820	1037.230	1037.640	1038.050	1038.460	1038.870	1039.280	1039.690
820.1	1040.100	1040.510	1040.920	1041.330	1041.740	1042.150	1042.560	1042.970	1043.380	1043.790
820.2	1044.200	1044.610	1045.020	1045.430	1045.840	1046.250	1046.660	1047.070	1047.480	1047.890
820.3	1048.300	1048.710	1049.120	1049.530	1049.940	1050.350	1050.760	1051.170	1051.580	1051.990
820.4	1052.400	1052.810	1053.220	1053.630	1054.040	1054.450	1054.860	1055.270	1055.680	1056.090
820.5	1056.500	1056.910	1057.320	1057.730	1058.140	1058.550	1058.960	1059.370	1059.780	1060.190
820.6	1060.600	1061.010	1061.420	1061.830	1062.240	1062.650	1063.060	1063.470	1063.880	1064.290
820.7	1064.700	1065.110	1065.520	1065.930	1066.340	1066.750	1067.160	1067.570	1067.980	1068.390
820.8	1068.800	1069.210	1069.620	1070.030	1070.440	1070.850	1071.260	1071.670	1072.080	1072.490
820.9	1072.900	1073.310	1073.720	1074.130	1074.540	1074.950	1075.360	1075.770	1076.180	1076.590
821.0	1077.000	1077.400	1077.800	1078.200	1078.600	1079.000	1079.400	1079.800	1080.200	1080.600
821.1	1081.000	1081.400	1081.800	1082.200	1082.600	1083.000	1083.400	1083.800	1084.200	1084.600
821.2	1085.000	1085.400	1085.800	1086.200	1086.600	1087.000	1087.400	1087.800	1088.200	1088.600
821.3	1089.000	1089.400	1089.800	1090.200	1090.600	1091.000	1091.400	1091.800	1092.200	1092.600
821.4	1093.000	1093.400	1093.800	1094.200	1094.600	1095.000	1095.400	1095.800	1096.200	1096.600
821.5	1097.000	1097.400	1097.800	1098.200	1098.600	1099.000	1099.400	1099.800	1100.200	1100.600
821.6	1101.000	1101.400	1101.800	1102.200	1102.600	1103.000	1103.400	1103.800	1104.200	1104.600
821.7	1105.000	1105.400	1105.800	1106.200	1106.600	1107.000	1107.400	1107.800	1108.200	1108.600
821.8	1109.000	1109.400	1109.800	1110.200	1110.600	1111.000	1111.400	1111.800	1112.200	1112.600
821.9	1113.000	1113.400	1113.800	1114.200	1114.600	1115.000	1115.400	1115.800	1116.200	1116.600
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
822.0	1117.000	1117.400	1117.800	1118.200	1118.600	1119.000	1119.400	1119.800	1120.200	1120.600
822.1	1121.000	1121.400	1121.800	1122.200	1122.600	1123.000	1123.400	1123.800	1124.200	1124.600
822.2	1125.000	1125.400	1125.800	1126.200	1126.600	1127.000	1127.400	1127.800	1128.200	1128.600
822.3	1129.000	1129.400	1129.800	1130.200	1130.600	1131.000	1131.400	1131.800	1132.200	1132.600
822.4	1133.000	1133.400	1133.800	1134.200	1134.600	1135.000	1135.400	1135.800	1136.200	1136.600
822.5	1137.000	1137.400	1137.800	1138.200	1138.600	1139.000	1139.400	1139.800	1140.200	1140.600
822.6	1141.000	1141.400	1141.800	1142.200	1142.600	1143.000	1143.400	1143.800	1144.200	1144.600
822.7	1145.000	1145.400	1145.800	1146.200	1146.600	1147.000	1147.400	1147.800	1148.200	1148.600
822.8	1149.000	1149.400	1149.800	1150.200	1150.600	1151.000	1151.400	1151.800	1152.200	1152.600
822.9	1153.000	1153.400	1153.800	1154.200	1154.600	1155.000	1155.400	1155.800	1156.200	1156.600
823.0	1157.000	1157.420	1157.840	1158.260	1158.680	1159.100	1159.520	1159.940	1160.360	1160.780
823.1	1161.200	1161.620	1162.040	1162.460	1162.880	1163.300	1163.720	1164.140	1164.560	1164.980
823.2	1165.400	1165.820	1166.240	1166.660	1167.080	1167.500	1167.920	1168.340	1168.760	1169.180
823.3	1169.600	1170.020	1170.440	1170.860	1171.280	1171.700	1172.120	1172.540	1172.960	1173.380
823.4	1173.800	1174.220	1174.640	1175.060	1175.480	1175.900	1176.320	1176.740	1177.160	1177.580
823.5	1178.000	1178.420	1178.840	1179.260	1179.680	1180.100	1180.520	1180.940	1181.360	1181.780
823.6	1182.200	1182.620	1183.040	1183.460	1183.880	1184.300	1184.720	1185.140	1185.560	1185.980
823.7	1186.400	1186.820	1187.240	1187.660	1188.080	1188.500	1188.920	1189.340	1189.760	1190.180
823.8	1190.600	1191.020	1191.440	1191.860	1192.280	1192.700	1193.120	1193.540	1193.960	1194.380
823.9	1194.800	1195.220	1195.640	1196.060	1196.480	1196.900	1197.320	1197.740	1198.160	1198.580
824.0	1199.000	1199.440	1199.880	1200.320	1200.760	1201.200	1201.640	1202.080	1202.520	1202.960
824.1	1203.400	1203.840	1204.280	1204.720	1205.160	1205.600	1206.040	1206.480	1206.920	1207.360
824.2	1207.800	1208.240	1208.680	1209.120	1209.560	1210.000	1210.440	1210.880	1211.320	1211.760
824.3	1212.200	1212.640	1213.080	1213.520	1213.960	1214.400	1214.840	1215.280	1215.720	1216.160
824.4	1216.600	1217.040	1217.480	1217.920	1218.360	1218.800	1219.240	1219.680	1220.120	1220.560
824.5	1221.000	1221.440	1221.880	1222.320	1222.760	1223.200	1223.640	1224.080	1224.520	1224.960
824.6	1225.400	1225.840	1226.280	1226.720	1227.160	1227.600	1228.040	1228.480	1228.920	1229.360
824.7	1229.800	1230.240	1230.680	1231.120	1231.560	1232.000	1232.440	1232.880	1233.320	1233.760
824.8	1234.200	1234.640	1235.080	1235.520	1235.960	1236.400	1236.840	1237.280	1237.720	1238.160
824.9	1238.600	1239.040	1239.480	1239.920	1240.360	1240.800	1241.240	1241.680	1242.120	1242.560
825.0	1243.000	1243.460	1243.920	1244.380	1244.840	1245.300	1245.760	1246.220	1246.680	1247.140
825.1	1247.600	1248.060	1248.520	1248.980	1249.440	1249.900	1250.360	1250.820	1251.280	1251.740
825.2	1252.200	1252.660	1253.120	1253.580	1254.040	1254.500	1254.960	1255.420	1255.880	1256.340
825.3	1256.800	1257.260	1257.720	1258.180	1258.640	1259.100	1259.560	1260.020	1260.480	1260.940
825.4	1261.400	1261.860	1262.320	1262.780	1263.240	1263.700	1264.160	1264.620	1265.080	1265.540
825.5	1266.000	1266.460	1266.920	1267.380	1267.840	1268.300	1268.760	1269.220	1269.680	1270.140
825.6	1270.600	1271.060	1271.520	1271.980	1272.440	1272.900	1273.360	1273.820	1274.280	1274.740
825.7	1275.200	1275.660	1276.120	1276.580	1277.040	1277.500	1277.960	1278.420	1278.880	1279.340
825.8	1279.800	1280.260	1280.720	1281.180	1281.640	1282.100	1282.560	1283.020	1283.480	1283.940
825.9	1284.400	1284.860	1285.320	1285.780	1286.240	1286.700	1287.160	1287.620	1288.080	1288.540
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
826.0	1289.000	1289.480	1289.960	1290.440	1290.920	1291.400	1291.880	1292.360	1292.840	1293.320
826.1	1293.800	1294.280	1294.760	1295.240	1295.720	1296.200	1296.680	1297.160	1297.640	1298.120
826.2	1298.600	1299.080	1299.560	1300.040	1300.520	1301.000	1301.480	1301.960	1302.440	1302.920
826.3	1303.400	1303.880	1304.360	1304.840	1305.320	1305.800	1306.280	1306.760	1307.240	1307.720
826.4	1308.200	1308.680	1309.160	1309.640	1310.120	1310.600	1311.080	1311.560	1312.040	1312.520
826.5	1313.000	1313.480	1313.960	1314.440	1314.920	1315.400	1315.880	1316.360	1316.840	1317.320
826.6	1317.800	1318.280	1318.760	1319.240	1319.720	1320.200	1320.680	1321.160	1321.640	1322.120
826.7	1322.600	1323.080	1323.560	1324.040	1324.520	1325.000	1325.480	1325.960	1326.440	1326.920
826.8	1327.400	1327.880	1328.360	1328.840	1329.320	1329.800	1330.280	1330.760	1331.240	1331.720
826.9	1332.200	1332.680	1333.160	1333.640	1334.120	1334.600	1335.080	1335.560	1336.040	1336.520
827.0	1337.000	1337.560	1338.120	1338.680	1339.240	1339.800	1340.360	1340.920	1341.480	1342.040
827.1	1342.600	1343.160	1343.720	1344.280	1344.840	1345.400	1345.960	1346.520	1347.080	1347.640
827.2	1348.200	1348.760	1349.320	1349.880	1350.440	1351.000	1351.560	1352.120	1352.680	1353.240
827.3	1353.800	1354.360	1354.920	1355.480	1356.040	1356.600	1357.160	1357.720	1358.280	1358.840
827.4	1359.400	1359.960	1360.520	1361.080	1361.640	1362.200	1362.760	1363.320	1363.880	1364.440
827.5	1365.000	1365.560	1366.120	1366.680	1367.240	1367.800	1368.360	1368.920	1369.480	1370.040
827.6	1370.600	1371.160	1371.720	1372.280	1372.840	1373.400	1373.960	1374.520	1375.080	1375.640
827.7	1376.200	1376.760	1377.320	1377.880	1378.440	1379.000	1379.560	1380.120	1380.680	1381.240
827.8	1381.800	1382.360	1382.920	1383.480	1384.040	1384.600	1385.160	1385.720	1386.280	1386.840
827.9	1387.400	1387.960	1388.520	1389.080	1389.640	1390.200	1390.760	1391.320	1391.880	1392.440
828.0	1393.000	1393.660	1394.320	1394.980	1395.640	1396.300	1396.960	1397.620	1398.280	1398.940
828.1	1399.600	1400.260	1400.920	1401.580	1402.240	1402.900	1403.560	1404.220	1404.880	1405.540
828.2	1406.200	1406.860	1407.520	1408.180	1408.840	1409.500	1410.160	1410.820	1411.480	1412.140
828.3	1412.800	1413.460	1414.120	1414.780	1415.440	1416.100	1416.760	1417.420	1418.080	1418.740
828.4	1419.400	1420.060	1420.720	1421.380	1422.040	1422.700	1423.360	1424.020	1424.680	1425.340
828.5	1426.000	1426.660	1427.320	1427.980	1428.640	1429.300	1429.960	1430.620	1431.280	1431.940
828.6	1432.600	1433.260	1433.920	1434.580	1435.240	1435.900	1436.560	1437.220	1437.880	1438.540
828.7	1439.200	1439.860	1440.520	1441.180	1441.840	1442.500	1443.160	1443.820	1444.480	1445.140
828.8	1445.800	1446.460	1447.120	1447.780	1448.440	1449.100	1449.760	1450.420	1451.080	1451.740
828.9	1452.400	1453.060	1453.720	1454.380	1455.040	1455.700	1456.360	1457.020	1457.680	1458.340
829.0	1459.000	1459.620	1460.240	1460.860	1461.480	1462.100	1462.720	1463.340	1463.960	1464.580
829.1	1465.200	1465.820	1466.440	1467.060	1467.680	1468.300	1468.920	1469.540	1470.160	1470.780
829.2	1471.400	1472.020	1472.640	1473.260	1473.880	1474.500	1475.120	1475.740	1476.360	1476.980
829.3	1477.600	1478.220	1478.840	1479.460	1480.080	1480.700	1481.320	1481.940	1482.560	1483.180
829.4	1483.800	1484.420	1485.040	1485.660	1486.280	1486.900	1487.520	1488.140	1488.760	1489.380
829.5	1490.000	1490.620	1491.240	1491.860	1492.480	1493.100	1493.720	1494.340	1494.960	1495.580
829.6	1496.200	1496.820	1497.440	1498.060	1498.680	1499.300	1499.920	1500.540	1501.160	1501.780
829.7	1502.400	1503.020	1503.640	1504.260	1504.880	1505.500	1506.120	1506.740	1507.360	1507.980
829.8	1508.600	1509.220	1509.840	1510.460	1511.080	1511.700	1512.320	1512.940	1513.560	1514.180
829.9	1514.800	1515.420	1516.040	1516.660	1517.280	1517.900	1518.520	1519.140	1519.760	1520.380
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
830.0	1521.000	1521.610	1522.220	1522.830	1523.440	1524.050	1524.660	1525.270	1525.880	1526.490
830.1	1527.100	1527.710	1528.320	1528.930	1529.540	1530.150	1530.760	1531.370	1531.980	1532.590
830.2	1533.200	1533.810	1534.420	1535.030	1535.640	1536.250	1536.860	1537.470	1538.080	1538.690
830.3	1539.300	1539.910	1540.520	1541.130	1541.740	1542.350	1542.960	1543.570	1544.180	1544.790
830.4	1545.400	1546.010	1546.620	1547.230	1547.840	1548.450	1549.060	1549.670	1550.280	1550.890
830.5	1551.500	1552.110	1552.720	1553.330	1553.940	1554.550	1555.160	1555.770	1556.380	1556.990
830.6	1557.600	1558.210	1558.820	1559.430	1560.040	1560.650	1561.260	1561.870	1562.480	1563.090
830.7	1563.700	1564.310	1564.920	1565.530	1566.140	1566.750	1567.360	1567.970	1568.580	1569.190
830.8	1569.800	1570.410	1571.020	1571.630	1572.240	1572.850	1573.460	1574.070	1574.680	1575.290
830.9	1575.900	1576.510	1577.120	1577.730	1578.340	1578.950	1579.560	1580.170	1580.780	1581.390
831.0	1582.000	1582.640	1583.280	1583.920	1584.560	1585.200	1585.840	1586.480	1587.120	1587.760
831.1	1588.400	1589.040	1589.680	1590.320	1590.960	1591.600	1592.240	1592.880	1593.520	1594.160
831.2	1594.800	1595.440	1596.080	1596.720	1597.360	1598.000	1598.640	1599.280	1599.920	1600.560
831.3	1601.200	1601.840	1602.480	1603.120	1603.760	1604.400	1605.040	1605.680	1606.320	1606.960
831.4	1607.600	1608.240	1608.880	1609.520	1610.160	1610.800	1611.440	1612.080	1612.720	1613.360
831.5	1614.000	1614.640	1615.280	1615.920	1616.560	1617.200	1617.840	1618.480	1619.120	1619.760
831.6	1620.400	1621.040	1621.680	1622.320	1622.960	1623.600	1624.240	1624.880	1625.520	1626.160
831.7	1626.800	1627.440	1628.080	1628.720	1629.360	1630.000	1630.640	1631.280	1631.920	1632.560
831.8	1633.200	1633.840	1634.480	1635.120	1635.760	1636.400	1637.040	1637.680	1638.320	1638.960
831.9	1639.600	1640.240	1640.880	1641.520	1642.160	1642.800	1643.440	1644.080	1644.720	1645.360
832.0	1646.000	1646.500	1647.000	1647.500	1648.000	1648.500	1649.000	1649.500	1650.000	1650.500
832.1	1651.000	1651.500	1652.000	1652.500	1653.000	1653.500	1654.000	1654.500	1655.000	1655.500
832.2	1656.000	1656.500	1657.000	1657.500	1658.000	1658.500	1659.000	1659.500	1660.000	1660.500
832.3	1661.000	1661.500	1662.000	1662.500	1663.000	1663.500	1664.000	1664.500	1665.000	1665.500
832.4	1666.000	1666.500	1667.000	1667.500	1668.000	1668.500	1669.000	1669.500	1670.000	1670.500
832.5	1671.000	1671.500	1672.000	1672.500	1673.000	1673.500	1674.000	1674.500	1675.000	1675.500
832.6	1676.000	1676.500	1677.000	1677.500	1678.000	1678.500	1679.000	1679.500	1680.000	1680.500
832.7	1681.000	1681.500	1682.000	1682.500	1683.000	1683.500	1684.000	1684.500	1685.000	1685.500
832.8	1686.000	1686.500	1687.000	1687.500	1688.000	1688.500	1689.000	1689.500	1690.000	1690.500
832.9	1691.000	1691.500	1692.000	1692.500	1693.000	1693.500	1694.000	1694.500	1695.000	1695.500
833.0	1696.000	1696.480	1696.960	1697.440	1697.920	1698.400	1698.880	1699.360	1699.840	1700.320
833.1	1700.800	1701.280	1701.760	1702.240	1702.720	1703.200	1703.680	1704.160	1704.640	1705.120
833.2	1705.600	1706.080	1706.560	1707.040	1707.520	1708.000	1708.480	1708.960	1709.440	1709.920
833.3	1710.400	1710.880	1711.360	1711.840	1712.320	1712.800	1713.280	1713.760	1714.240	1714.720
833.4	1715.200	1715.680	1716.160	1716.640	1717.120	1717.600	1718.080	1718.560	1719.040	1719.520
833.5	1720.000	1720.480	1720.960	1721.440	1721.920	1722.400	1722.880	1723.360	1723.840	1724.320
833.6	1724.800	1725.280	1725.760	1726.240	1726.720	1727.200	1727.680	1728.160	1728.640	1729.120
833.7	1729.600	1730.080	1730.560	1731.040	1731.520	1732.000	1732.480	1732.960	1733.440	1733.920
833.8	1734.400	1734.880	1735.360	1735.840	1736.320	1736.800	1737.280	1737.760	1738.240	1738.720
833.9	1739.200	1739.680	1740.160	1740.640	1741.120	1741.600	1742.080	1742.560	1743.040	1743.520
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
834.0	1744.000	1744.490	1744.980	1745.470	1745.960	1746.450	1746.940	1747.430	1747.920	1748.410
834.1	1748.900	1749.390	1749.880	1750.370	1750.860	1751.350	1751.840	1752.330	1752.820	1753.310
834.2	1753.800	1754.290	1754.780	1755.270	1755.760	1756.250	1756.740	1757.230	1757.720	1758.210
834.3	1758.700	1759.190	1759.680	1760.170	1760.660	1761.150	1761.640	1762.130	1762.620	1763.110
834.4	1763.600	1764.090	1764.580	1765.070	1765.560	1766.050	1766.540	1767.030	1767.520	1768.010
834.5	1768.500	1768.990	1769.480	1769.970	1770.460	1770.950	1771.440	1771.930	1772.420	1772.910
834.6	1773.400	1773.890	1774.380	1774.870	1775.360	1775.850	1776.340	1776.830	1777.320	1777.810
834.7	1778.300	1778.790	1779.280	1779.770	1780.260	1780.750	1781.240	1781.730	1782.220	1782.710
834.8	1783.200	1783.690	1784.180	1784.670	1785.160	1785.650	1786.140	1786.630	1787.120	1787.610
834.9	1788.100	1788.590	1789.080	1789.570	1790.060	1790.550	1791.040	1791.530	1792.020	1792.510
835.0	1793.000	1793.530	1794.060	1794.590	1795.120	1795.650	1796.180	1796.710	1797.240	1797.770
835.1	1798.300	1798.830	1799.360	1799.890	1800.420	1800.950	1801.480	1802.010	1802.540	1803.070
835.2	1803.600	1804.130	1804.660	1805.190	1805.720	1806.250	1806.780	1807.310	1807.840	1808.370
835.3	1808.900	1809.430	1809.960	1810.490	1811.020	1811.550	1812.080	1812.610	1813.140	1813.670
835.4	1814.200	1814.730	1815.260	1815.790	1816.320	1816.850	1817.380	1817.910	1818.440	1818.970
835.5	1819.500	1820.030	1820.560	1821.090	1821.620	1822.150	1822.680	1823.210	1823.740	1824.270
835.6	1824.800	1825.330	1825.860	1826.390	1826.920	1827.450	1827.980	1828.510	1829.040	1829.570
835.7	1830.100	1830.630	1831.160	1831.690	1832.220	1832.750	1833.280	1833.810	1834.340	1834.870
835.8	1835.400	1835.930	1836.460	1836.990	1837.520	1838.050	1838.580	1839.110	1839.640	1840.170
835.9	1840.700	1841.230	1841.760	1842.290	1842.820	1843.350	1843.880	1844.410	1844.940	1845.470
836.0	1846.000	1846.520	1847.040	1847.560	1848.080	1848.600	1849.120	1849.640	1850.160	1850.680
836.1	1851.200	1851.720	1852.240	1852.760	1853.280	1853.800	1854.320	1854.840	1855.360	1855.880
836.2	1856.400	1856.920	1857.440	1857.960	1858.480	1859.000	1859.520	1860.040	1860.560	1861.080
836.3	1861.600	1862.120	1862.640	1863.160	1863.680	1864.200	1864.720	1865.240	1865.760	1866.280
836.4	1866.800	1867.320	1867.840	1868.360	1868.880	1869.400	1869.920	1870.440	1870.960	1871.480
836.5	1872.000	1872.520	1873.040	1873.560	1874.080	1874.600	1875.120	1875.640	1876.160	1876.680
836.6	1877.200	1877.720	1878.240	1878.760	1879.280	1879.800	1880.320	1880.840	1881.360	1881.880
836.7	1882.400	1882.920	1883.440	1883.960	1884.480	1885.000	1885.520	1886.040	1886.560	1887.080
836.8	1887.600	1888.120	1888.640	1889.160	1889.680	1890.200	1890.720	1891.240	1891.760	1892.280
836.9	1892.800	1893.320	1893.840	1894.360	1894.880	1895.400	1895.920	1896.440	1896.960	1897.480
837.0	1898.000	1898.560	1899.120	1899.680	1900.240	1900.800	1901.360	1901.920	1902.480	1903.040
837.1	1903.600	1904.160	1904.720	1905.280	1905.840	1906.400	1906.960	1907.520	1908.080	1908.640
837.2	1909.200	1909.760	1910.320	1910.880	1911.440	1912.000	1912.560	1913.120	1913.680	1914.240
837.3	1914.800	1915.360	1915.920	1916.480	1917.040	1917.600	1918.160	1918.720	1919.280	1919.840
837.4	1920.400	1920.960	1921.520	1922.080	1922.640	1923.200	1923.760	1924.320	1924.880	1925.440
837.5	1926.000	1926.560	1927.120	1927.680	1928.240	1928.800	1929.360	1929.920	1930.480	1931.040
837.6	1931.600	1932.160	1932.720	1933.280	1933.840	1934.400	1934.960	1935.520	1936.080	1936.640
837.7	1937.200	1937.760	1938.320	1938.880	1939.440	1940.000	1940.560	1941.120	1941.680	1942.240
837.8	1942.800	1943.360	1943.920	1944.480	1945.040	1945.600	1946.160	1946.720	1947.280	1947.840
837.9	1948.400	1948.960	1949.520	1950.080	1950.640	1951.200	1951.760	1952.320	1952.880	1953.440
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
838.0	1954.000	1954.560	1955.120	1955.680	1956.240	1956.800	1957.360	1957.920	1958.480	1959.040
838.1	1959.600	1960.160	1960.720	1961.280	1961.840	1962.400	1962.960	1963.520	1964.080	1964.640
838.2	1965.200	1965.760	1966.320	1966.880	1967.440	1968.000	1968.560	1969.120	1969.680	1970.240
838.3	1970.800	1971.360	1971.920	1972.480	1973.040	1973.600	1974.160	1974.720	1975.280	1975.840
838.4	1976.400	1976.960	1977.520	1978.080	1978.640	1979.200	1979.760	1980.320	1980.880	1981.440
838.5	1982.000	1982.560	1983.120	1983.680	1984.240	1984.800	1985.360	1985.920	1986.480	1987.040
838.6	1987.600	1988.160	1988.720	1989.280	1989.840	1990.400	1990.960	1991.520	1992.080	1992.640
838.7	1993.200	1993.760	1994.320	1994.880	1995.440	1996.000	1996.560	1997.120	1997.680	1998.240
838.8	1998.800	1999.360	1999.920	2000.480	2001.040	2001.600	2002.160	2002.720	2003.280	2003.840
838.9	2004.400	2004.960	2005.520	2006.080	2006.640	2007.200	2007.760	2008.320	2008.880	2009.440
839.0	2010.000	2010.600	2011.200	2011.800	2012.400	2013.000	2013.600	2014.200	2014.800	2015.400
839.1	2016.000	2016.600	2017.200	2017.800	2018.400	2019.000	2019.600	2020.200	2020.800	2021.400
839.2	2022.000	2022.600	2023.200	2023.800	2024.400	2025.000	2025.600	2026.200	2026.800	2027.400
839.3	2028.000	2028.600	2029.200	2029.800	2030.400	2031.000	2031.600	2032.200	2032.800	2033.400
839.4	2034.000	2034.600	2035.200	2035.800	2036.400	2037.000	2037.600	2038.200	2038.800	2039.400
839.5	2040.000	2040.600	2041.200	2041.800	2042.400	2043.000	2043.600	2044.200	2044.800	2045.400
839.6	2046.000	2046.600	2047.200	2047.800	2048.400	2049.000	2049.600	2050.200	2050.800	2051.400
839.7	2052.000	2052.600	2053.200	2053.800	2054.400	2055.000	2055.600	2056.200	2056.800	2057.400
839.8	2058.000	2058.600	2059.200	2059.800	2060.400	2061.000	2061.600	2062.200	2062.800	2063.400
839.9	2064.000	2064.600	2065.200	2065.800	2066.400	2067.000	2067.600	2068.200	2068.800	2069.400
840.0	2070.000	2070.640	2071.280	2071.920	2072.560	2073.200	2073.840	2074.480	2075.120	2075.760
840.1	2076.400	2077.040	2077.680	2078.320	2078.960	2079.600	2080.240	2080.880	2081.520	2082.160
840.2	2082.800	2083.440	2084.080	2084.720	2085.360	2086.000	2086.640	2087.280	2087.920	2088.560
840.3	2089.200	2089.840	2090.480	2091.120	2091.760	2092.400	2093.040	2093.680	2094.320	2094.960
840.4	2095.600	2096.240	2096.880	2097.520	2098.160	2098.800	2099.440	2100.080	2100.720	2101.360
840.5	2102.000	2102.640	2103.280	2103.920	2104.560	2105.200	2105.840	2106.480	2107.120	2107.760
840.6	2108.400	2109.040	2109.680	2110.320	2110.960	2111.600	2112.240	2112.880	2113.520	2114.160
840.7	2114.800	2115.440	2116.080	2116.720	2117.360	2118.000	2118.640	2119.280	2119.920	2120.560
840.8	2121.200	2121.840	2122.480	2123.120	2123.760	2124.400	2125.040	2125.680	2126.320	2126.960
840.9	2127.600	2128.240	2128.880	2129.520	2130.160	2130.800	2131.440	2132.080	2132.720	2133.360
841.0	2134.000	2134.700	2135.400	2136.100	2136.800	2137.500	2138.200	2138.900	2139.600	2140.300
841.1	2141.000	2141.700	2142.400	2143.100	2143.800	2144.500	2145.200	2145.900	2146.600	2147.300
841.2	2148.000	2148.700	2149.400	2150.100	2150.800	2151.500	2152.200	2152.900	2153.600	2154.300
841.3	2155.000	2155.700	2156.400	2157.100	2157.800	2158.500	2159.200	2159.900	2160.600	2161.300
841.4	2162.000	2162.700	2163.400	2164.100	2164.800	2165.500	2166.200	2166.900	2167.600	2168.300
841.5	2169.000	2169.700	2170.400	2171.100	2171.800	2172.500	2173.200	2173.900	2174.600	2175.300
841.6	2176.000	2176.700	2177.400	2178.100	2178.800	2179.500	2180.200	2180.900	2181.600	2182.300
841.7	2183.000	2183.700	2184.400	2185.100	2185.800	2186.500	2187.200	2187.900	2188.600	2189.300
841.8	2190.000	2190.700	2191.400	2192.100	2192.800	2193.500	2194.200	2194.900	2195.600	2196.300
841.9	2197.000	2197.700	2198.400	2199.100	2199.800	2200.500	2201.200	2201.900	2202.600	2203.300
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
842.0	2204.000	2204.660	2205.320	2205.980	2206.640	2207.300	2207.960	2208.620	2209.280	2209.940
842.1	2210.600	2211.260	2211.920	2212.580	2213.240	2213.900	2214.560	2215.220	2215.880	2216.540
842.2	2217.200	2217.860	2218.520	2219.180	2219.840	2220.500	2221.160	2221.820	2222.480	2223.140
842.3	2223.800	2224.460	2225.120	2225.780	2226.440	2227.100	2227.760	2228.420	2229.080	2229.740
842.4	2230.400	2231.060	2231.720	2232.380	2233.040	2233.700	2234.360	2235.020	2235.680	2236.340
842.5	2237.000	2237.660	2238.320	2238.980	2239.640	2240.300	2240.960	2241.620	2242.280	2242.940
842.6	2243.600	2244.260	2244.920	2245.580	2246.240	2246.900	2247.560	2248.220	2248.880	2249.540
842.7	2250.200	2250.860	2251.520	2252.180	2252.840	2253.500	2254.160	2254.820	2255.480	2256.140
842.8	2256.800	2257.460	2258.120	2258.780	2259.440	2260.100	2260.760	2261.420	2262.080	2262.740
842.9	2263.400	2264.060	2264.720	2265.380	2266.040	2266.700	2267.360	2268.020	2268.680	2269.340
843.0	2270.000	2270.630	2271.260	2271.890	2272.520	2273.150	2273.780	2274.410	2275.040	2275.670
843.1	2276.300	2276.930	2277.560	2278.190	2278.820	2279.450	2280.080	2280.710	2281.340	2281.970
843.2	2282.600	2283.230	2283.860	2284.490	2285.120	2285.750	2286.380	2287.010	2287.640	2288.270
843.3	2288.900	2289.530	2290.160	2290.790	2291.420	2292.050	2292.680	2293.310	2293.940	2294.570
843.4	2295.200	2295.830	2296.460	2297.090	2297.720	2298.350	2298.980	2299.610	2300.240	2300.870
843.5	2301.500	2302.130	2302.760	2303.390	2304.020	2304.650	2305.280	2305.910	2306.540	2307.170
843.6	2307.800	2308.430	2309.060	2309.690	2310.320	2310.950	2311.580	2312.210	2312.840	2313.470
843.7	2314.100	2314.730	2315.360	2315.990	2316.620	2317.250	2317.880	2318.510	2319.140	2319.770
843.8	2320.400	2321.030	2321.660	2322.290	2322.920	2323.550	2324.180	2324.810	2325.440	2326.070
843.9	2326.700	2327.330	2327.960	2328.590	2329.220	2329.850	2330.480	2331.110	2331.740	2332.370
844.0	2333.000	2333.590	2334.180	2334.770	2335.360	2335.950	2336.540	2337.130	2337.720	2338.310
844.1	2338.900	2339.490	2340.080	2340.670	2341.260	2341.850	2342.440	2343.030	2343.620	2344.210
844.2	2344.800	2345.390	2345.980	2346.570	2347.160	2347.750	2348.340	2348.930	2349.520	2350.110
844.3	2350.700	2351.290	2351.880	2352.470	2353.060	2353.650	2354.240	2354.830	2355.420	2356.010
844.4	2356.600	2357.190	2357.780	2358.370	2358.960	2359.550	2360.140	2360.730	2361.320	2361.910
844.5	2362.500	2363.090	2363.680	2364.270	2364.860	2365.450	2366.040	2366.630	2367.220	2367.810
844.6	2368.400	2368.990	2369.580	2370.170	2370.760	2371.350	2371.940	2372.530	2373.120	2373.710
844.7	2374.300	2374.890	2375.480	2376.070	2376.660	2377.250	2377.840	2378.430	2379.020	2379.610
844.8	2380.200	2380.790	2381.380	2381.970	2382.560	2383.150	2383.740	2384.330	2384.920	2385.510
844.9	2386.100	2386.690	2387.280	2387.870	2388.460	2389.050	2389.640	2390.230	2390.820	2391.410
845.0	2392.000	2392.610	2393.220	2393.830	2394.440	2395.050	2395.660	2396.270	2396.880	2397.490
845.1	2398.100	2398.710	2399.320	2399.930	2400.540	2401.150	2401.760	2402.370	2402.980	2403.590
845.2	2404.200	2404.810	2405.420	2406.030	2406.640	2407.250	2407.860	2408.470	2409.080	2409.690
845.3	2410.300	2410.910	2411.520	2412.130	2412.740	2413.350	2413.960	2414.570	2415.180	2415.790
845.4	2416.400	2417.010	2417.620	2418.230	2418.840	2419.450	2420.060	2420.670	2421.280	2421.890
845.5	2422.500	2423.110	2423.720	2424.330	2424.940	2425.550	2426.160	2426.770	2427.380	2427.990
845.6	2428.600	2429.210	2429.820	2430.430	2431.040	2431.650	2432.260	2432.870	2433.480	2434.090
845.7	2434.700	2435.310	2435.920	2436.530	2437.140	2437.750	2438.360	2438.970	2439.580	2440.190
845.8	2440.800	2441.410	2442.020	2442.630	2443.240	2443.850	2444.460	2445.070	2445.680	2446.290
845.9	2446.900	2447.510	2448.120	2448.730	2449.340	2449.950	2450.560	2451.170	2451.780	2452.390
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
846.0	2453.000	2453.620	2454.240	2454.860	2455.480	2456.100	2456.720	2457.340	2457.960	2458.580
846.1	2459.200	2459.820	2460.440	2461.060	2461.680	2462.300	2462.920	2463.540	2464.160	2464.780
846.2	2465.400	2466.020	2466.640	2467.260	2467.880	2468.500	2469.120	2469.740	2470.360	2470.980
846.3	2471.600	2472.220	2472.840	2473.460	2474.080	2474.700	2475.320	2475.940	2476.560	2477.180
846.4	2477.800	2478.420	2479.040	2479.660	2480.280	2480.900	2481.520	2482.140	2482.760	2483.380
846.5	2484.000	2484.620	2485.240	2485.860	2486.480	2487.100	2487.720	2488.340	2488.960	2489.580
846.6	2490.200	2490.820	2491.440	2492.060	2492.680	2493.300	2493.920	2494.540	2495.160	2495.780
846.7	2496.400	2497.020	2497.640	2498.260	2498.880	2499.500	2500.120	2500.740	2501.360	2501.980
846.8	2502.600	2503.220	2503.840	2504.460	2505.080	2505.700	2506.320	2506.940	2507.560	2508.180
846.9	2508.800	2509.420	2510.040	2510.660	2511.280	2511.900	2512.520	2513.140	2513.760	2514.380
847.0	2515.000	2515.630	2516.260	2516.890	2517.520	2518.150	2518.780	2519.410	2520.040	2520.670
847.1	2521.300	2521.930	2522.560	2523.190	2523.820	2524.450	2525.080	2525.710	2526.340	2526.970
847.2	2527.600	2528.230	2528.860	2529.490	2530.120	2530.750	2531.380	2532.010	2532.640	2533.270
847.3	2533.900	2534.530	2535.160	2535.790	2536.420	2537.050	2537.680	2538.310	2538.940	2539.570
847.4	2540.200	2540.830	2541.460	2542.090	2542.720	2543.350	2543.980	2544.610	2545.240	2545.870
847.5	2546.500	2547.130	2547.760	2548.390	2549.020	2549.650	2550.280	2550.910	2551.540	2552.170
847.6	2552.800	2553.430	2554.060	2554.690	2555.320	2555.950	2556.580	2557.210	2557.840	2558.470
847.7	2559.100	2559.730	2560.360	2560.990	2561.620	2562.250	2562.880	2563.510	2564.140	2564.770
847.8	2565.400	2566.030	2566.660	2567.290	2567.920	2568.550	2569.180	2569.810	2570.440	2571.070
847.9	2571.700	2572.330	2572.960	2573.590	2574.220	2574.850	2575.480	2576.110	2576.740	2577.370
848.0	2578.000	2578.630	2579.260	2579.890	2580.520	2581.150	2581.780	2582.410	2583.040	2583.670
848.1	2584.300	2584.930	2585.560	2586.190	2586.820	2587.450	2588.080	2588.710	2589.340	2589.970
848.2	2590.600	2591.230	2591.860	2592.490	2593.120	2593.750	2594.380	2595.010	2595.640	2596.270
848.3	2596.900	2597.530	2598.160	2598.790	2599.420	2600.050	2600.680	2601.310	2601.940	2602.570
848.4	2603.200	2603.830	2604.460	2605.090	2605.720	2606.350	2606.980	2607.610	2608.240	2608.870
848.5	2609.500	2610.130	2610.760	2611.390	2612.020	2612.650	2613.280	2613.910	2614.540	2615.170
848.6	2615.800	2616.430	2617.060	2617.690	2618.320	2618.950	2619.580	2620.210	2620.840	2621.470
848.7	2622.100	2622.730	2623.360	2623.990	2624.620	2625.250	2625.880	2626.510	2627.140	2627.770
848.8	2628.400	2629.030	2629.660	2630.290	2630.920	2631.550	2632.180	2632.810	2633.440	2634.070
848.9	2634.700	2635.330	2635.960	2636.590	2637.220	2637.850	2638.480	2639.110	2639.740	2640.370
849.0	2641.000	2641.650	2642.300	2642.950	2643.600	2644.250	2644.900	2645.550	2646.200	2646.850
849.1	2647.500	2648.150	2648.800	2649.450	2650.100	2650.750	2651.400	2652.050	2652.700	2653.350
849.2	2654.000	2654.650	2655.300	2655.950	2656.600	2657.250	2657.900	2658.550	2659.200	2659.850
849.3	2660.500	2661.150	2661.800	2662.450	2663.100	2663.750	2664.400	2665.050	2665.700	2666.350
849.4	2667.000	2667.650	2668.300	2668.950	2669.600	2670.250	2670.900	2671.550	2672.200	2672.850
849.5	2673.500	2674.150	2674.800	2675.450	2676.100	2676.750	2677.400	2678.050	2678.700	2679.350
849.6	2680.000	2680.650	2681.300	2681.950	2682.600	2683.250	2683.900	2684.550	2685.200	2685.850
849.7	2686.500	2687.150	2687.800	2688.450	2689.100	2689.750	2690.400	2691.050	2691.700	2692.350
849.8	2693.000	2693.650	2694.300	2694.950	2695.600	2696.250	2696.900	2697.550	2698.200	2698.850
849.9	2699.500	2700.150	2700.800	2701.450	2702.100	2702.750	2703.400	2704.050	2704.700	2705.350
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
850.0	2706.000	2706.680	2707.360	2708.040	2708.720	2709.400	2710.080	2710.760	2711.440	2712.120
850.1	2712.800	2713.480	2714.160	2714.840	2715.520	2716.200	2716.880	2717.560	2718.240	2718.920
850.2	2719.600	2720.280	2720.960	2721.640	2722.320	2723.000	2723.680	2724.360	2725.040	2725.720
850.3	2726.400	2727.080	2727.760	2728.440	2729.120	2729.800	2730.480	2731.160	2731.840	2732.520
850.4	2733.200	2733.880	2734.560	2735.240	2735.920	2736.600	2737.280	2737.960	2738.640	2739.320
850.5	2740.000	2740.680	2741.360	2742.040	2742.720	2743.400	2744.080	2744.760	2745.440	2746.120
850.6	2746.800	2747.480	2748.160	2748.840	2749.520	2750.200	2750.880	2751.560	2752.240	2752.920
850.7	2753.600	2754.280	2754.960	2755.640	2756.320	2757.000	2757.680	2758.360	2759.040	2759.720
850.8	2760.400	2761.080	2761.760	2762.440	2763.120	2763.800	2764.480	2765.160	2765.840	2766.520
850.9	2767.200	2767.880	2768.560	2769.240	2769.920	2770.600	2771.280	2771.960	2772.640	2773.320
851.0	2774.000	2774.710	2775.420	2776.130	2776.840	2777.550	2778.260	2778.970	2779.680	2780.390
851.1	2781.100	2781.810	2782.520	2783.230	2783.940	2784.650	2785.360	2786.070	2786.780	2787.490
851.2	2788.200	2788.910	2789.620	2790.330	2791.040	2791.750	2792.460	2793.170	2793.880	2794.590
851.3	2795.300	2796.010	2796.720	2797.430	2798.140	2798.850	2799.560	2800.270	2800.980	2801.690
851.4	2802.400	2803.110	2803.820	2804.530	2805.240	2805.950	2806.660	2807.370	2808.080	2808.790
851.5	2809.500	2810.210	2810.920	2811.630	2812.340	2813.050	2813.760	2814.470	2815.180	2815.890
851.6	2816.600	2817.310	2818.020	2818.730	2819.440	2820.150	2820.860	2821.570	2822.280	2822.990
851.7	2823.700	2824.410	2825.120	2825.830	2826.540	2827.250	2827.960	2828.670	2829.380	2830.090
851.8	2830.800	2831.510	2832.220	2832.930	2833.640	2834.350	2835.060	2835.770	2836.480	2837.190
851.9	2837.900	2838.610	2839.320	2840.030	2840.740	2841.450	2842.160	2842.870	2843.580	2844.290
852.0	2845.000	2845.710	2846.420	2847.130	2847.840	2848.550	2849.260	2849.970	2850.680	2851.390
852.1	2852.100	2852.810	2853.520	2854.230	2854.940	2855.650	2856.360	2857.070	2857.780	2858.490
852.2	2859.200	2859.910	2860.620	2861.330	2862.040	2862.750	2863.460	2864.170	2864.880	2865.590
852.3	2866.300	2867.010	2867.720	2868.430	2869.140	2869.850	2870.560	2871.270	2871.980	2872.690
852.4	2873.400	2874.110	2874.820	2875.530	2876.240	2876.950	2877.660	2878.370	2879.080	2879.790
852.5	2880.500	2881.210	2881.920	2882.630	2883.340	2884.050	2884.760	2885.470	2886.180	2886.890
852.6	2887.600	2888.310	2889.020	2889.730	2890.440	2891.150	2891.860	2892.570	2893.280	2893.990
852.7	2894.700	2895.410	2896.120	2896.830	2897.540	2898.250	2898.960	2899.670	2900.380	2901.090
852.8	2901.800	2902.510	2903.220	2903.930	2904.640	2905.350	2906.060	2906.770	2907.480	2908.190
852.9	2908.900	2909.610	2910.320	2911.030	2911.740	2912.450	2913.160	2913.870	2914.580	2915.290
853.0	2916.000	2916.690	2917.380	2918.070	2918.760	2919.450	2920.140	2920.830	2921.520	2922.210
853.1	2922.900	2923.590	2924.280	2924.970	2925.660	2926.350	2927.040	2927.730	2928.420	2929.110
853.2	2929.800	2930.490	2931.180	2931.870	2932.560	2933.250	2933.940	2934.630	2935.320	2936.010
853.3	2936.700	2937.390	2938.080	2938.770	2939.460	2940.150	2940.840	2941.530	2942.220	2942.910
853.4	2943.600	2944.290	2944.980	2945.670	2946.360	2947.050	2947.740	2948.430	2949.120	2949.810
853.5	2950.500	2951.190	2951.880	2952.570	2953.260	2953.950	2954.640	2955.330	2956.020	2956.710
853.6	2957.400	2958.090	2958.780	2959.470	2960.160	2960.850	2961.540	2962.230	2962.920	2963.610
853.7	2964.300	2964.990	2965.680	2966.370	2967.060	2967.750	2968.440	2969.130	2969.820	2970.510
853.8	2971.200	2971.890	2972.580	2973.270	2973.960	2974.650	2975.340	2976.030	2976.720	2977.410
853.9	2978.100	2978.790	2979.480	2980.170	2980.860	2981.550	2982.240	2982.930	2983.620	2984.310
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
854.0	2985.000	2985.740	2986.480	2987.220	2987.960	2988.700	2989.440	2990.180	2990.920	2991.660
854.1	2992.400	2993.140	2993.880	2994.620	2995.360	2996.100	2996.840	2997.580	2998.320	2999.060
854.2	2999.800	3000.540	3001.280	3002.020	3002.760	3003.500	3004.240	3004.980	3005.720	3006.460
854.3	3007.200	3007.940	3008.680	3009.420	3010.160	3010.900	3011.640	3012.380	3013.120	3013.860
854.4	3014.600	3015.340	3016.080	3016.820	3017.560	3018.300	3019.040	3019.780	3020.520	3021.260
854.5	3022.000	3022.740	3023.480	3024.220	3024.960	3025.700	3026.440	3027.180	3027.920	3028.660
854.6	3029.400	3030.140	3030.880	3031.620	3032.360	3033.100	3033.840	3034.580	3035.320	3036.060
854.7	3036.800	3037.540	3038.280	3039.020	3039.760	3040.500	3041.240	3041.980	3042.720	3043.460
854.8	3044.200	3044.940	3045.680	3046.420	3047.160	3047.900	3048.640	3049.380	3050.120	3050.860
854.9	3051.600	3052.340	3053.080	3053.820	3054.560	3055.300	3056.040	3056.780	3057.520	3058.260
855.0	3059.000	3059.800	3060.600	3061.400	3062.200	3063.000	3063.800	3064.600	3065.400	3066.200
855.1	3067.000	3067.800	3068.600	3069.400	3070.200	3071.000	3071.800	3072.600	3073.400	3074.200
855.2	3075.000	3075.800	3076.600	3077.400	3078.200	3079.000	3079.800	3080.600	3081.400	3082.200
855.3	3083.000	3083.800	3084.600	3085.400	3086.200	3087.000	3087.800	3088.600	3089.400	3090.200
855.4	3091.000	3091.800	3092.600	3093.400	3094.200	3095.000	3095.800	3096.600	3097.400	3098.200
855.5	3099.000	3099.800	3100.600	3101.400	3102.200	3103.000	3103.800	3104.600	3105.400	3106.200
855.6	3107.000	3107.800	3108.600	3109.400	3110.200	3111.000	3111.800	3112.600	3113.400	3114.200
855.7	3115.000	3115.800	3116.600	3117.400	3118.200	3119.000	3119.800	3120.600	3121.400	3122.200
855.8	3123.000	3123.800	3124.600	3125.400	3126.200	3127.000	3127.800	3128.600	3129.400	3130.200
855.9	3131.000	3131.800	3132.600	3133.400	3134.200	3135.000	3135.800	3136.600	3137.400	3138.200
856.0	3139.000	3139.760	3140.520	3141.280	3142.040	3142.800	3143.560	3144.320	3145.080	3145.840
856.1	3146.600	3147.360	3148.120	3148.880	3149.640	3150.400	3151.160	3151.920	3152.680	3153.440
856.2	3154.200	3154.960	3155.720	3156.480	3157.240	3158.000	3158.760	3159.520	3160.280	3161.040
856.3	3161.800	3162.560	3163.320	3164.080	3164.840	3165.600	3166.360	3167.120	3167.880	3168.640
856.4	3169.400	3170.160	3170.920	3171.680	3172.440	3173.200	3173.960	3174.720	3175.480	3176.240
856.5	3177.000	3177.760	3178.520	3179.280	3180.040	3180.800	3181.560	3182.320	3183.080	3183.840
856.6	3184.600	3185.360	3186.120	3186.880	3187.640	3188.400	3189.160	3189.920	3190.680	3191.440
856.7	3192.200	3192.960	3193.720	3194.480	3195.240	3196.000	3196.760	3197.520	3198.280	3199.040
856.8	3199.800	3200.560	3201.320	3202.080	3202.840	3203.600	3204.360	3205.120	3205.880	3206.640
856.9	3207.400	3208.160	3208.920	3209.680	3210.440	3211.200	3211.960	3212.720	3213.480	3214.240
857.0	3215.000	3215.730	3216.460	3217.190	3217.920	3218.650	3219.380	3220.110	3220.840	3221.570
857.1	3222.300	3223.030	3223.760	3224.490	3225.220	3225.950	3226.680	3227.410	3228.140	3228.870
857.2	3229.600	3230.330	3231.060	3231.790	3232.520	3233.250	3233.980	3234.710	3235.440	3236.170
857.3	3236.900	3237.630	3238.360	3239.090	3239.820	3240.550	3241.280	3242.010	3242.740	3243.470
857.4	3244.200	3244.930	3245.660	3246.390	3247.120	3247.850	3248.580	3249.310	3250.040	3250.770
857.5	3251.500	3252.230	3252.960	3253.690	3254.420	3255.150	3255.880	3256.610	3257.340	3258.070
857.6	3258.800	3259.530	3260.260	3260.990	3261.720	3262.450	3263.180	3263.910	3264.640	3265.370
857.7	3266.100	3266.830	3267.560	3268.290	3269.020	3269.750	3270.480	3271.210	3271.940	3272.670
857.8	3273.400	3274.130	3274.860	3275.590	3276.320	3277.050	3277.780	3278.510	3279.240	3279.970
857.9	3280.700	3281.430	3282.160	3282.890	3283.620	3284.350	3285.080	3285.810	3286.540	3287.270
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
858.0	3288.000	3288.800	3289.600	3290.400	3291.200	3292.000	3292.800	3293.600	3294.400	3295.200
858.1	3296.000	3296.800	3297.600	3298.400	3299.200	3300.000	3300.800	3301.600	3302.400	3303.200
858.2	3304.000	3304.800	3305.600	3306.400	3307.200	3308.000	3308.800	3309.600	3310.400	3311.200
858.3	3312.000	3312.800	3313.600	3314.400	3315.200	3316.000	3316.800	3317.600	3318.400	3319.200
858.4	3320.000	3320.800	3321.600	3322.400	3323.200	3324.000	3324.800	3325.600	3326.400	3327.200
858.5	3328.000	3328.800	3329.600	3330.400	3331.200	3332.000	3332.800	3333.600	3334.400	3335.200
858.6	3336.000	3336.800	3337.600	3338.400	3339.200	3340.000	3340.800	3341.600	3342.400	3343.200
858.7	3344.000	3344.800	3345.600	3346.400	3347.200	3348.000	3348.800	3349.600	3350.400	3351.200
858.8	3352.000	3352.800	3353.600	3354.400	3355.200	3356.000	3356.800	3357.600	3358.400	3359.200
858.9	3360.000	3360.800	3361.600	3362.400	3363.200	3364.000	3364.800	3365.600	3366.400	3367.200
859.0	3368.000	3368.860	3369.720	3370.580	3371.440	3372.300	3373.160	3374.020	3374.880	3375.740
859.1	3376.600	3377.460	3378.320	3379.180	3380.040	3380.900	3381.760	3382.620	3383.480	3384.340
859.2	3385.200	3386.060	3386.920	3387.780	3388.640	3389.500	3390.360	3391.220	3392.080	3392.940
859.3	3393.800	3394.660	3395.520	3396.380	3397.240	3398.100	3398.960	3399.820	3400.680	3401.540
859.4	3402.400	3403.260	3404.120	3404.980	3405.840	3406.700	3407.560	3408.420	3409.280	3410.140
859.5	3411.000	3411.860	3412.720	3413.580	3414.440	3415.300	3416.160	3417.020	3417.880	3418.740
859.6	3419.600	3420.460	3421.320	3422.180	3423.040	3423.900	3424.760	3425.620	3426.480	3427.340
859.7	3428.200	3429.060	3429.920	3430.780	3431.640	3432.500	3433.360	3434.220	3435.080	3435.940
859.8	3436.800	3437.660	3438.520	3439.380	3440.240	3441.100	3441.960	3442.820	3443.680	3444.540
859.9	3445.400	3446.260	3447.120	3447.980	3448.840	3449.700	3450.560	3451.420	3452.280	3453.140
860.0	3454.000	3454.790	3455.580	3456.370	3457.160	3457.950	3458.740	3459.530	3460.320	3461.110
860.1	3461.900	3462.690	3463.480	3464.270	3465.060	3465.850	3466.640	3467.430	3468.220	3469.010
860.2	3469.800	3470.590	3471.380	3472.170	3472.960	3473.750	3474.540	3475.330	3476.120	3476.910
860.3	3477.700	3478.490	3479.280	3480.070	3480.860	3481.650	3482.440	3483.230	3484.020	3484.810
860.4	3485.600	3486.390	3487.180	3487.970	3488.760	3489.550	3490.340	3491.130	3491.920	3492.710
860.5	3493.500	3494.290	3495.080	3495.870	3496.660	3497.450	3498.240	3499.030	3499.820	3500.610
860.6	3501.400	3502.190	3502.980	3503.770	3504.560	3505.350	3506.140	3506.930	3507.720	3508.510
860.7	3509.300	3510.090	3510.880	3511.670	3512.460	3513.250	3514.040	3514.830	3515.620	3516.410
860.8	3517.200	3517.990	3518.780	3519.570	3520.360	3521.150	3521.940	3522.730	3523.520	3524.310
860.9	3525.100	3525.890	3526.680	3527.470	3528.260	3529.050	3529.840	3530.630	3531.420	3532.210
861.0	3533.000	3533.780	3534.560	3535.340	3536.120	3536.900	3537.680	3538.460	3539.240	3540.020
861.1	3540.800	3541.580	3542.360	3543.140	3543.920	3544.700	3545.480	3546.260	3547.040	3547.820
861.2	3548.600	3549.380	3550.160	3550.940	3551.720	3552.500	3553.280	3554.060	3554.840	3555.620
861.3	3556.400	3557.180	3557.960	3558.740	3559.520	3560.300	3561.080	3561.860	3562.640	3563.420
861.4	3564.200	3564.980	3565.760	3566.540	3567.320	3568.100	3568.880	3569.660	3570.440	3571.220
861.5	3572.000	3572.780	3573.560	3574.340	3575.120	3575.900	3576.680	3577.460	3578.240	3579.020
861.6	3579.800	3580.580	3581.360	3582.140	3582.920	3583.700	3584.480	3585.260	3586.040	3586.820
861.7	3587.600	3588.380	3589.160	3589.940	3590.720	3591.500	3592.280	3593.060	3593.840	3594.620
861.8	3595.400	3596.180	3596.960	3597.740	3598.520	3599.300	3600.080	3600.860	3601.640	3602.420
861.9	3603.200	3603.980	3604.760	3605.540	3606.320	3607.100	3607.880	3608.660	3609.440	3610.220
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
862.0	3611.000	3611.770	3612.540	3613.310	3614.080	3614.850	3615.620	3616.390	3617.160	3617.930
862.1	3618.700	3619.470	3620.240	3621.010	3621.780	3622.550	3623.320	3624.090	3624.860	3625.630
862.2	3626.400	3627.170	3627.940	3628.710	3629.480	3630.250	3631.020	3631.790	3632.560	3633.330
862.3	3634.100	3634.870	3635.640	3636.410	3637.180	3637.950	3638.720	3639.490	3640.260	3641.030
862.4	3641.800	3642.570	3643.340	3644.110	3644.880	3645.650	3646.420	3647.190	3647.960	3648.730
862.5	3649.500	3650.270	3651.040	3651.810	3652.580	3653.350	3654.120	3654.890	3655.660	3656.430
862.6	3657.200	3657.970	3658.740	3659.510	3660.280	3661.050	3661.820	3662.590	3663.360	3664.130
862.7	3664.900	3665.670	3666.440	3667.210	3667.980	3668.750	3669.520	3670.290	3671.060	3671.830
862.8	3672.600	3673.370	3674.140	3674.910	3675.680	3676.450	3677.220	3677.990	3678.760	3679.530
862.9	3680.300	3681.070	3681.840	3682.610	3683.380	3684.150	3684.920	3685.690	3686.460	3687.230
863.0	3688.000	3688.730	3689.460	3690.190	3690.920	3691.650	3692.380	3693.110	3693.840	3694.570
863.1	3695.300	3696.030	3696.760	3697.490	3698.220	3698.950	3699.680	3700.410	3701.140	3701.870
863.2	3702.600	3703.330	3704.060	3704.790	3705.520	3706.250	3706.980	3707.710	3708.440	3709.170
863.3	3709.900	3710.630	3711.360	3712.090	3712.820	3713.550	3714.280	3715.010	3715.740	3716.470
863.4	3717.200	3717.930	3718.660	3719.390	3720.120	3720.850	3721.580	3722.310	3723.040	3723.770
863.5	3724.500	3725.230	3725.960	3726.690	3727.420	3728.150	3728.880	3729.610	3730.340	3731.070
863.6	3731.800	3732.530	3733.260	3733.990	3734.720	3735.450	3736.180	3736.910	3737.640	3738.370
863.7	3739.100	3739.830	3740.560	3741.290	3742.020	3742.750	3743.480	3744.210	3744.940	3745.670
863.8	3746.400	3747.130	3747.860	3748.590	3749.320	3750.050	3750.780	3751.510	3752.240	3752.970
863.9	3753.700	3754.430	3755.160	3755.890	3756.620	3757.350	3758.080	3758.810	3759.540	3760.270
864.0	3761.000	3761.740	3762.480	3763.220	3763.960	3764.700	3765.440	3766.180	3766.920	3767.660
864.1	3768.400	3769.140	3769.880	3770.620	3771.360	3772.100	3772.840	3773.580	3774.320	3775.060
864.2	3775.800	3776.540	3777.280	3778.020	3778.760	3779.500	3780.240	3780.980	3781.720	3782.460
864.3	3783.200	3783.940	3784.680	3785.420	3786.160	3786.900	3787.640	3788.380	3789.120	3789.860
864.4	3790.600	3791.340	3792.080	3792.820	3793.560	3794.300	3795.040	3795.780	3796.520	3797.260
864.5	3798.000	3798.740	3799.480	3800.220	3800.960	3801.700	3802.440	3803.180	3803.920	3804.660
864.6	3805.400	3806.140	3806.880	3807.620	3808.360	3809.100	3809.840	3810.580	3811.320	3812.060
864.7	3812.800	3813.540	3814.280	3815.020	3815.760	3816.500	3817.240	3817.980	3818.720	3819.460
864.8	3820.200	3820.940	3821.680	3822.420	3823.160	3823.900	3824.640	3825.380	3826.120	3826.860
864.9	3827.600	3828.340	3829.080	3829.820	3830.560	3831.300	3832.040	3832.780	3833.520	3834.260
865.0	3835.000	3835.800	3836.600	3837.400	3838.200	3839.000	3839.800	3840.600	3841.400	3842.200
865.1	3843.000	3843.800	3844.600	3845.400	3846.200	3847.000	3847.800	3848.600	3849.400	3850.200
865.2	3851.000	3851.800	3852.600	3853.400	3854.200	3855.000	3855.800	3856.600	3857.400	3858.200
865.3	3859.000	3859.800	3860.600	3861.400	3862.200	3863.000	3863.800	3864.600	3865.400	3866.200
865.4	3867.000	3867.800	3868.600	3869.400	3870.200	3871.000	3871.800	3872.600	3873.400	3874.200
865.5	3875.000	3875.800	3876.600	3877.400	3878.200	3879.000	3879.800	3880.600	3881.400	3882.200
865.6	3883.000	3883.800	3884.600	3885.400	3886.200	3887.000	3887.800	3888.600	3889.400	3890.200
865.7	3891.000	3891.800	3892.600	3893.400	3894.200	3895.000	3895.800	3896.600	3897.400	3898.200
865.8	3899.000	3899.800	3900.600	3901.400	3902.200	3903.000	3903.800	3904.600	3905.400	3906.200
865.9	3907.000	3907.800	3908.600	3909.400	3910.200	3911.000	3911.800	3912.600	3913.400	3914.200
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
866.0	3915.000	3915.820	3916.640	3917.460	3918.280	3919.100	3919.920	3920.740	3921.560	3922.380
866.1	3923.200	3924.020	3924.840	3925.660	3926.480	3927.300	3928.120	3928.940	3929.760	3930.580
866.2	3931.400	3932.220	3933.040	3933.860	3934.680	3935.500	3936.320	3937.140	3937.960	3938.780
866.3	3939.600	3940.420	3941.240	3942.060	3942.880	3943.700	3944.520	3945.340	3946.160	3946.980
866.4	3947.800	3948.620	3949.440	3950.260	3951.080	3951.900	3952.720	3953.540	3954.360	3955.180
866.5	3956.000	3956.820	3957.640	3958.460	3959.280	3960.100	3960.920	3961.740	3962.560	3963.380
866.6	3964.200	3965.020	3965.840	3966.660	3967.480	3968.300	3969.120	3969.940	3970.760	3971.580
866.7	3972.400	3973.220	3974.040	3974.860	3975.680	3976.500	3977.320	3978.140	3978.960	3979.780
866.8	3980.600	3981.420	3982.240	3983.060	3983.880	3984.700	3985.520	3986.340	3987.160	3987.980
866.9	3988.800	3989.620	3990.440	3991.260	3992.080	3992.900	3993.720	3994.540	3995.360	3996.180
867.0	3997.000	3997.850	3998.700	3999.550	4000.400	4001.250	4002.100	4002.950	4003.800	4004.650
867.1	4005.500	4006.350	4007.200	4008.050	4008.900	4009.750	4010.600	4011.450	4012.300	4013.150
867.2	4014.000	4014.850	4015.700	4016.550	4017.400	4018.250	4019.100	4019.950	4020.800	4021.650
867.3	4022.500	4023.350	4024.200	4025.050	4025.900	4026.750	4027.600	4028.450	4029.300	4030.150
867.4	4031.000	4031.850	4032.700	4033.550	4034.400	4035.250	4036.100	4036.950	4037.800	4038.650
867.5	4039.500	4040.350	4041.200	4042.050	4042.900	4043.750	4044.600	4045.450	4046.300	4047.150
867.6	4048.000	4048.850	4049.700	4050.550	4051.400	4052.250	4053.100	4053.950	4054.800	4055.650
867.7	4056.500	4057.350	4058.200	4059.050	4059.900	4060.750	4061.600	4062.450	4063.300	4064.150
867.8	4065.000	4065.850	4066.700	4067.550	4068.400	4069.250	4070.100	4070.950	4071.800	4072.650
867.9	4073.500	4074.350	4075.200	4076.050	4076.900	4077.750	4078.600	4079.450	4080.300	4081.150
868.0	4082.000	4082.950	4083.900	4084.850	4085.800	4086.750	4087.700	4088.650	4089.600	4090.550
868.1	4091.500	4092.450	4093.400	4094.350	4095.300	4096.250	4097.200	4098.150	4099.100	4100.050
868.2	4101.000	4101.950	4102.900	4103.850	4104.800	4105.750	4106.700	4107.650	4108.600	4109.550
868.3	4110.500	4111.450	4112.400	4113.350	4114.300	4115.250	4116.200	4117.150	4118.100	4119.050
868.4	4120.000	4120.950	4121.900	4122.850	4123.800	4124.750	4125.700	4126.650	4127.600	4128.550
868.5	4129.500	4130.450	4131.400	4132.350	4133.300	4134.250	4135.200	4136.150	4137.100	4138.050
868.6	4139.000	4139.950	4140.900	4141.850	4142.800	4143.750	4144.700	4145.650	4146.600	4147.550
868.7	4148.500	4149.450	4150.400	4151.350	4152.300	4153.250	4154.200	4155.150	4156.100	4157.050
868.8	4158.000	4158.950	4159.900	4160.850	4161.800	4162.750	4163.700	4164.650	4165.600	4166.550
868.9	4167.500	4168.450	4169.400	4170.350	4171.300	4172.250	4173.200	4174.150	4175.100	4176.050
869.0	4177.000	4177.950	4178.900	4179.850	4180.800	4181.750	4182.700	4183.650	4184.600	4185.550
869.1	4186.500	4187.450	4188.400	4189.350	4190.300	4191.250	4192.200	4193.150	4194.100	4195.050
869.2	4196.000	4196.950	4197.900	4198.850	4199.800	4200.750	4201.700	4202.650	4203.600	4204.550
869.3	4205.500	4206.450	4207.400	4208.350	4209.300	4210.250	4211.200	4212.150	4213.100	4214.050
869.4	4215.000	4215.950	4216.900	4217.850	4218.800	4219.750	4220.700	4221.650	4222.600	4223.550
869.5	4224.500	4225.450	4226.400	4227.350	4228.300	4229.250	4230.200	4231.150	4232.100	4233.050
869.6	4234.000	4234.950	4235.900	4236.850	4237.800	4238.750	4239.700	4240.650	4241.600	4242.550
869.7	4243.500	4244.450	4245.400	4246.350	4247.300	4248.250	4249.200	4250.150	4251.100	4252.050
869.8	4253.000	4253.950	4254.900	4255.850	4256.800	4257.750	4258.700	4259.650	4260.600	4261.550
869.9	4262.500	4263.450	4264.400	4265.350	4266.300	4267.250	4268.200	4269.150	4270.100	4271.050
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
870.0	4272.000	4272.930	4273.860	4274.790	4275.720	4276.650	4277.580	4278.510	4279.440	4280.370
870.1	4281.300	4282.230	4283.160	4284.090	4285.020	4285.950	4286.880	4287.810	4288.740	4289.670
870.2	4290.600	4291.530	4292.460	4293.390	4294.320	4295.250	4296.180	4297.110	4298.040	4298.970
870.3	4299.900	4300.830	4301.760	4302.690	4303.620	4304.550	4305.480	4306.410	4307.340	4308.270
870.4	4309.200	4310.130	4311.060	4311.990	4312.920	4313.850	4314.780	4315.710	4316.640	4317.570
870.5	4318.500	4319.430	4320.360	4321.290	4322.220	4323.150	4324.080	4325.010	4325.940	4326.870
870.6	4327.800	4328.730	4329.660	4330.590	4331.520	4332.450	4333.380	4334.310	4335.240	4336.170
870.7	4337.100	4338.030	4338.960	4339.890	4340.820	4341.750	4342.680	4343.610	4344.540	4345.470
870.8	4346.400	4347.330	4348.260	4349.190	4350.120	4351.050	4351.980	4352.910	4353.840	4354.770
870.9	4355.700	4356.630	4357.560	4358.490	4359.420	4360.350	4361.280	4362.210	4363.140	4364.070
871.0	4365.000	4365.940	4366.880	4367.820	4368.760	4369.700	4370.640	4371.580	4372.520	4373.460
871.1	4374.400	4375.340	4376.280	4377.220	4378.160	4379.100	4380.040	4380.980	4381.920	4382.860
871.2	4383.800	4384.740	4385.680	4386.620	4387.560	4388.500	4389.440	4390.380	4391.320	4392.260
871.3	4393.200	4394.140	4395.080	4396.020	4396.960	4397.900	4398.840	4399.780	4400.720	4401.660
871.4	4402.600	4403.540	4404.480	4405.420	4406.360	4407.300	4408.240	4409.180	4410.120	4411.060
871.5	4412.000	4412.940	4413.880	4414.820	4415.760	4416.700	4417.640	4418.580	4419.520	4420.460
871.6	4421.400	4422.340	4423.280	4424.220	4425.160	4426.100	4427.040	4427.980	4428.920	4429.860
871.7	4430.800	4431.740	4432.680	4433.620	4434.560	4435.500	4436.440	4437.380	4438.320	4439.260
871.8	4440.200	4441.140	4442.080	4443.020	4443.960	4444.900	4445.840	4446.780	4447.720	4448.660
871.9	4449.600	4450.540	4451.480	4452.420	4453.360	4454.300	4455.240	4456.180	4457.120	4458.060
872.0	4459.000	4459.890	4460.780	4461.670	4462.560	4463.450	4464.340	4465.230	4466.120	4467.010
872.1	4467.900	4468.790	4469.680	4470.570	4471.460	4472.350	4473.240	4474.130	4475.020	4475.910
872.2	4476.800	4477.690	4478.580	4479.470	4480.360	4481.250	4482.140	4483.030	4483.920	4484.810
872.3	4485.700	4486.590	4487.480	4488.370	4489.260	4490.150	4491.040	4491.930	4492.820	4493.710
872.4	4494.600	4495.490	4496.380	4497.270	4498.160	4499.050	4499.940	4500.830	4501.720	4502.610
872.5	4503.500	4504.390	4505.280	4506.170	4507.060	4507.950	4508.840	4509.730	4510.620	4511.510
872.6	4512.400	4513.290	4514.180	4515.070	4515.960	4516.850	4517.740	4518.630	4519.520	4520.410
872.7	4521.300	4522.190	4523.080	4523.970	4524.860	4525.750	4526.640	4527.530	4528.420	4529.310
872.8	4530.200	4531.090	4531.980	4532.870	4533.760	4534.650	4535.540	4536.430	4537.320	4538.210
872.9	4539.100	4539.990	4540.880	4541.770	4542.660	4543.550	4544.440	4545.330	4546.220	4547.110
873.0	4548.000	4548.880	4549.760	4550.640	4551.520	4552.400	4553.280	4554.160	4555.040	4555.920
873.1	4556.800	4557.680	4558.560	4559.440	4560.320	4561.200	4562.080	4562.960	4563.840	4564.720
873.2	4565.600	4566.480	4567.360	4568.240	4569.120	4570.000	4570.880	4571.760	4572.640	4573.520
873.3	4574.400	4575.280	4576.160	4577.040	4577.920	4578.800	4579.680	4580.560	4581.440	4582.320
873.4	4583.200	4584.080	4584.960	4585.840	4586.720	4587.600	4588.480	4589.360	4590.240	4591.120
873.5	4592.000	4592.880	4593.760	4594.640	4595.520	4596.400	4597.280	4598.160	4599.040	4599.920
873.6	4600.800	4601.680	4602.560	4603.440	4604.320	4605.200	4606.080	4606.960	4607.840	4608.720
873.7	4609.600	4610.480	4611.360	4612.240	4613.120	4614.000	4614.880	4615.760	4616.640	4617.520
873.8	4618.400	4619.280	4620.160	4621.040	4621.920	4622.800	4623.680	4624.560	4625.440	4626.320
873.9	4627.200	4628.080	4628.960	4629.840	4630.720	4631.600	4632.480	4633.360	4634.240	4635.120
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
874.0	4636.000	4636.890	4637.780	4638.670	4639.560	4640.450	4641.340	4642.230	4643.120	4644.010
874.1	4644.900	4645.790	4646.680	4647.570	4648.460	4649.350	4650.240	4651.130	4652.020	4652.910
874.2	4653.800	4654.690	4655.580	4656.470	4657.360	4658.250	4659.140	4660.030	4660.920	4661.810
874.3	4662.700	4663.590	4664.480	4665.370	4666.260	4667.150	4668.040	4668.930	4669.820	4670.710
874.4	4671.600	4672.490	4673.380	4674.270	4675.160	4676.050	4676.940	4677.830	4678.720	4679.610
874.5	4680.500	4681.390	4682.280	4683.170	4684.060	4684.950	4685.840	4686.730	4687.620	4688.510
874.6	4689.400	4690.290	4691.180	4692.070	4692.960	4693.850	4694.740	4695.630	4696.520	4697.410
874.7	4698.300	4699.190	4700.080	4700.970	4701.860	4702.750	4703.640	4704.530	4705.420	4706.310
874.8	4707.200	4708.090	4708.980	4709.870	4710.760	4711.650	4712.540	4713.430	4714.320	4715.210
874.9	4716.100	4716.990	4717.880	4718.770	4719.660	4720.550	4721.440	4722.330	4723.220	4724.110
875.0	4725.000	4725.930	4726.860	4727.790	4728.720	4729.650	4730.580	4731.510	4732.440	4733.370
875.1	4734.300	4735.230	4736.160	4737.090	4738.020	4738.950	4739.880	4740.810	4741.740	4742.670
875.2	4743.600	4744.530	4745.460	4746.390	4747.320	4748.250	4749.180	4750.110	4751.040	4751.970
875.3	4752.900	4753.830	4754.760	4755.690	4756.620	4757.550	4758.480	4759.410	4760.340	4761.270
875.4	4762.200	4763.130	4764.060	4764.990	4765.920	4766.850	4767.780	4768.710	4769.640	4770.570
875.5	4771.500	4772.430	4773.360	4774.290	4775.220	4776.150	4777.080	4778.010	4778.940	4779.870
875.6	4780.800	4781.730	4782.660	4783.590	4784.520	4785.450	4786.380	4787.310	4788.240	4789.170
875.7	4790.100	4791.030	4791.960	4792.890	4793.820	4794.750	4795.680	4796.610	4797.540	4798.470
875.8	4799.400	4800.330	4801.260	4802.190	4803.120	4804.050	4804.980	4805.910	4806.840	4807.770
875.9	4808.700	4809.630	4810.560	4811.490	4812.420	4813.350	4814.280	4815.210	4816.140	4817.070
876.0	4818.000	4818.910	4819.820	4820.730	4821.640	4822.550	4823.460	4824.370	4825.280	4826.190
876.1	4827.100	4828.010	4828.920	4829.830	4830.740	4831.650	4832.560	4833.470	4834.380	4835.290
876.2	4836.200	4837.110	4838.020	4838.930	4839.840	4840.750	4841.660	4842.570	4843.480	4844.390
876.3	4845.300	4846.210	4847.120	4848.030	4848.940	4849.850	4850.760	4851.670	4852.580	4853.490
876.4	4854.400	4855.310	4856.220	4857.130	4858.040	4858.950	4859.860	4860.770	4861.680	4862.590
876.5	4863.500	4864.410	4865.320	4866.230	4867.140	4868.050	4868.960	4869.870	4870.780	4871.690
876.6	4872.600	4873.510	4874.420	4875.330	4876.240	4877.150	4878.060	4878.970	4879.880	4880.790
876.7	4881.700	4882.610	4883.520	4884.430	4885.340	4886.250	4887.160	4888.070	4888.980	4889.890
876.8	4890.800	4891.710	4892.620	4893.530	4894.440	4895.350	4896.260	4897.170	4898.080	4898.990
876.9	4899.900	4900.810	4901.720	4902.630	4903.540	4904.450	4905.360	4906.270	4907.180	4908.090
877.0	4909.000	4909.890	4910.780	4911.670	4912.560	4913.450	4914.340	4915.230	4916.120	4917.010
877.1	4917.900	4918.790	4919.680	4920.570	4921.460	4922.350	4923.240	4924.130	4925.020	4925.910
877.2	4926.800	4927.690	4928.580	4929.470	4930.360	4931.250	4932.140	4933.030	4933.920	4934.810
877.3	4935.700	4936.590	4937.480	4938.370	4939.260	4940.150	4941.040	4941.930	4942.820	4943.710
877.4	4944.600	4945.490	4946.380	4947.270	4948.160	4949.050	4949.940	4950.830	4951.720	4952.610
877.5	4953.500	4954.390	4955.280	4956.170	4957.060	4957.950	4958.840	4959.730	4960.620	4961.510
877.6	4962.400	4963.290	4964.180	4965.070	4965.960	4966.850	4967.740	4968.630	4969.520	4970.410
877.7	4971.300	4972.190	4973.080	4973.970	4974.860	4975.750	4976.640	4977.530	4978.420	4979.310
877.8	4980.200	4981.090	4981.980	4982.870	4983.760	4984.650	4985.540	4986.430	4987.320	4988.210
877.9	4989.100	4989.990	4990.880	4991.770	4992.660	4993.550	4994.440	4995.330	4996.220	4997.110
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
878.0	4998.000	4998.910	4999.820	5000.730	5001.640	5002.550	5003.460	5004.370	5005.280	5006.190
878.1	5007.100	5008.010	5008.920	5009.830	5010.740	5011.650	5012.560	5013.470	5014.380	5015.290
878.2	5016.200	5017.110	5018.020	5018.930	5019.840	5020.750	5021.660	5022.570	5023.480	5024.390
878.3	5025.300	5026.210	5027.120	5028.030	5028.940	5029.850	5030.760	5031.670	5032.580	5033.490
878.4	5034.400	5035.310	5036.220	5037.130	5038.040	5038.950	5039.860	5040.770	5041.680	5042.590
878.5	5043.500	5044.410	5045.320	5046.230	5047.140	5048.050	5048.960	5049.870	5050.780	5051.690
878.6	5052.600	5053.510	5054.420	5055.330	5056.240	5057.150	5058.060	5058.970	5059.880	5060.790
878.7	5061.700	5062.610	5063.520	5064.430	5065.340	5066.250	5067.160	5068.070	5068.980	5069.890
878.8	5070.800	5071.710	5072.620	5073.530	5074.440	5075.350	5076.260	5077.170	5078.080	5078.990
878.9	5079.900	5080.810	5081.720	5082.630	5083.540	5084.450	5085.360	5086.270	5087.180	5088.090
879.0	5089.000	5089.930	5090.860	5091.790	5092.720	5093.650	5094.580	5095.510	5096.440	5097.370
879.1	5098.300	5099.230	5100.160	5101.090	5102.020	5102.950	5103.880	5104.810	5105.740	5106.670
879.2	5107.600	5108.530	5109.460	5110.390	5111.320	5112.250	5113.180	5114.110	5115.040	5115.970
879.3	5116.900	5117.830	5118.760	5119.690	5120.620	5121.550	5122.480	5123.410	5124.340	5125.270
879.4	5126.200	5127.130	5128.060	5128.990	5129.920	5130.850	5131.780	5132.710	5133.640	5134.570
879.5	5135.500	5136.430	5137.360	5138.290	5139.220	5140.150	5141.080	5142.010	5142.940	5143.870
879.6	5144.800	5145.730	5146.660	5147.590	5148.520	5149.450	5150.380	5151.310	5152.240	5153.170
879.7	5154.100	5155.030	5155.960	5156.890	5157.820	5158.750	5159.680	5160.610	5161.540	5162.470
879.8	5163.400	5164.330	5165.260	5166.190	5167.120	5168.050	5168.980	5169.910	5170.840	5171.770
879.9	5172.700	5173.630	5174.560	5175.490	5176.420	5177.350	5178.280	5179.210	5180.140	5181.070
880.0	5182.000	5182.930	5183.860	5184.790	5185.720	5186.650	5187.580	5188.510	5189.440	5190.370
880.1	5191.300	5192.230	5193.160	5194.090	5195.020	5195.950	5196.880	5197.810	5198.740	5199.670
880.2	5200.600	5201.530	5202.460	5203.390	5204.320	5205.250	5206.180	5207.110	5208.040	5208.970
880.3	5209.900	5210.830	5211.760	5212.690	5213.620	5214.550	5215.480	5216.410	5217.340	5218.270
880.4	5219.200	5220.130	5221.060	5221.990	5222.920	5223.850	5224.780	5225.710	5226.640	5227.570
880.5	5228.500	5229.430	5230.360	5231.290	5232.220	5233.150	5234.080	5235.010	5235.940	5236.870
880.6	5237.800	5238.730	5239.660	5240.590	5241.520	5242.450	5243.380	5244.310	5245.240	5246.170
880.7	5247.100	5248.030	5248.960	5249.890	5250.820	5251.750	5252.680	5253.610	5254.540	5255.470
880.8	5256.400	5257.330	5258.260	5259.190	5260.120	5261.050	5261.980	5262.910	5263.840	5264.770
880.9	5265.700	5266.630	5267.560	5268.490	5269.420	5270.350	5271.280	5272.210	5273.140	5274.070
881.0	5275.000	5275.930	5276.860	5277.790	5278.720	5279.650	5280.580	5281.510	5282.440	5283.370
881.1	5284.300	5285.230	5286.160	5287.090	5288.020	5288.950	5289.880	5290.810	5291.740	5292.670
881.2	5293.600	5294.530	5295.460	5296.390	5297.320	5298.250	5299.180	5300.110	5301.040	5301.970
881.3	5302.900	5303.830	5304.760	5305.690	5306.620	5307.550	5308.480	5309.410	5310.340	5311.270
881.4	5312.200	5313.130	5314.060	5314.990	5315.920	5316.850	5317.780	5318.710	5319.640	5320.570
881.5	5321.500	5322.430	5323.360	5324.290	5325.220	5326.150	5327.080	5328.010	5328.940	5329.870
881.6	5330.800	5331.730	5332.660	5333.590	5334.520	5335.450	5336.380	5337.310	5338.240	5339.170
881.7	5340.100	5341.030	5341.960	5342.890	5343.820	5344.750	5345.680	5346.610	5347.540	5348.470
881.8	5349.400	5350.330	5351.260	5352.190	5353.120	5354.050	5354.980	5355.910	5356.840	5357.770
881.9	5358.700	5359.630	5360.560	5361.490	5362.420	5363.350	5364.280	5365.210	5366.140	5367.070
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
882.0	5368.000	5368.920	5369.840	5370.760	5371.680	5372.600	5373.520	5374.440	5375.360	5376.280
882.1	5377.200	5378.120	5379.040	5379.960	5380.880	5381.800	5382.720	5383.640	5384.560	5385.480
882.2	5386.400	5387.320	5388.240	5389.160	5390.080	5391.000	5391.920	5392.840	5393.760	5394.680
882.3	5395.600	5396.520	5397.440	5398.360	5399.280	5400.200	5401.120	5402.040	5402.960	5403.880
882.4	5404.800	5405.720	5406.640	5407.560	5408.480	5409.400	5410.320	5411.240	5412.160	5413.080
882.5	5414.000	5414.920	5415.840	5416.760	5417.680	5418.600	5419.520	5420.440	5421.360	5422.280
882.6	5423.200	5424.120	5425.040	5425.960	5426.880	5427.800	5428.720	5429.640	5430.560	5431.480
882.7	5432.400	5433.320	5434.240	5435.160	5436.080	5437.000	5437.920	5438.840	5439.760	5440.680
882.8	5441.600	5442.520	5443.440	5444.360	5445.280	5446.200	5447.120	5448.040	5448.960	5449.880
882.9	5450.800	5451.720	5452.640	5453.560	5454.480	5455.400	5456.320	5457.240	5458.160	5459.080
883.0	5460.000	5460.940	5461.880	5462.820	5463.760	5464.700	5465.640	5466.580	5467.520	5468.460
883.1	5469.400	5470.340	5471.280	5472.220	5473.160	5474.100	5475.040	5475.980	5476.920	5477.860
883.2	5478.800	5479.740	5480.680	5481.620	5482.560	5483.500	5484.440	5485.380	5486.320	5487.260
883.3	5488.200	5489.140	5490.080	5491.020	5491.960	5492.900	5493.840	5494.780	5495.720	5496.660
883.4	5497.600	5498.540	5499.480	5500.420	5501.360	5502.300	5503.240	5504.180	5505.120	5506.060
883.5	5507.000	5507.940	5508.880	5509.820	5510.760	5511.700	5512.640	5513.580	5514.520	5515.460
883.6	5516.400	5517.340	5518.280	5519.220	5520.160	5521.100	5522.040	5522.980	5523.920	5524.860
883.7	5525.800	5526.740	5527.680	5528.620	5529.560	5530.500	5531.440	5532.380	5533.320	5534.260
883.8	5535.200	5536.140	5537.080	5538.020	5538.960	5539.900	5540.840	5541.780	5542.720	5543.660
883.9	5544.600	5545.540	5546.480	5547.420	5548.360	5549.300	5550.240	5551.180	5552.120	5553.060
884.0	5554.000	5554.960	5555.920	5556.880	5557.840	5558.800	5559.760	5560.720	5561.680	5562.640
884.1	5563.600	5564.560	5565.520	5566.480	5567.440	5568.400	5569.360	5570.320	5571.280	5572.240
884.2	5573.200	5574.160	5575.120	5576.080	5577.040	5578.000	5578.960	5579.920	5580.880	5581.840
884.3	5582.800	5583.760	5584.720	5585.680	5586.640	5587.600	5588.560	5589.520	5590.480	5591.440
884.4	5592.400	5593.360	5594.320	5595.280	5596.240	5597.200	5598.160	5599.120	5600.080	5601.040
884.5	5602.000	5602.960	5603.920	5604.880	5605.840	5606.800	5607.760	5608.720	5609.680	5610.640
884.6	5611.600	5612.560	5613.520	5614.480	5615.440	5616.400	5617.360	5618.320	5619.280	5620.240
884.7	5621.200	5622.160	5623.120	5624.080	5625.040	5626.000	5626.960	5627.920	5628.880	5629.840
884.8	5630.800	5631.760	5632.720	5633.680	5634.640	5635.600	5636.560	5637.520	5638.480	5639.440
884.9	5640.400	5641.360	5642.320	5643.280	5644.240	5645.200	5646.160	5647.120	5648.080	5649.040
885.0	5650.000	5650.970	5651.940	5652.910	5653.880	5654.850	5655.820	5656.790	5657.760	5658.730
885.1	5659.700	5660.670	5661.640	5662.610	5663.580	5664.550	5665.520	5666.490	5667.460	5668.430
885.2	5669.400	5670.370	5671.340	5672.310	5673.280	5674.250	5675.220	5676.190	5677.160	5678.130
885.3	5679.100	5680.070	5681.040	5682.010	5682.980	5683.950	5684.920	5685.890	5686.860	5687.830
885.4	5688.800	5689.770	5690.740	5691.710	5692.680	5693.650	5694.620	5695.590	5696.560	5697.530
885.5	5698.500	5699.470	5700.440	5701.410	5702.380	5703.350	5704.320	5705.290	5706.260	5707.230
885.6	5708.200	5709.170	5710.140	5711.110	5712.080	5713.050	5714.020	5714.990	5715.960	5716.930
885.7	5717.900	5718.870	5719.840	5720.810	5721.780	5722.750	5723.720	5724.690	5725.660	5726.630
885.8	5727.600	5728.570	5729.540	5730.510	5731.480	5732.450	5733.420	5734.390	5735.360	5736.330
885.9	5737.300	5738.270	5739.240	5740.210	5741.180	5742.150	5743.120	5744.090	5745.060	5746.030
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
886.0	5747.000	5748.000	5749.000	5750.000	5751.000	5752.000	5753.000	5754.000	5755.000	5756.000
886.1	5757.000	5758.000	5759.000	5760.000	5761.000	5762.000	5763.000	5764.000	5765.000	5766.000
886.2	5767.000	5768.000	5769.000	5770.000	5771.000	5772.000	5773.000	5774.000	5775.000	5776.000
886.3	5777.000	5778.000	5779.000	5780.000	5781.000	5782.000	5783.000	5784.000	5785.000	5786.000
886.4	5787.000	5788.000	5789.000	5790.000	5791.000	5792.000	5793.000	5794.000	5795.000	5796.000
886.5	5797.000	5798.000	5799.000	5800.000	5801.000	5802.000	5803.000	5804.000	5805.000	5806.000
886.6	5807.000	5808.000	5809.000	5810.000	5811.000	5812.000	5813.000	5814.000	5815.000	5816.000
886.7	5817.000	5818.000	5819.000	5820.000	5821.000	5822.000	5823.000	5824.000	5825.000	5826.000
886.8	5827.000	5828.000	5829.000	5830.000	5831.000	5832.000	5833.000	5834.000	5835.000	5836.000
886.9	5837.000	5838.000	5839.000	5840.000	5841.000	5842.000	5843.000	5844.000	5845.000	5846.000
887.0	5847.000	5848.000	5849.000	5850.000	5851.000	5852.000	5853.000	5854.000	5855.000	5856.000
887.1	5857.000	5858.000	5859.000	5860.000	5861.000	5862.000	5863.000	5864.000	5865.000	5866.000
887.2	5867.000	5868.000	5869.000	5870.000	5871.000	5872.000	5873.000	5874.000	5875.000	5876.000
887.3	5877.000	5878.000	5879.000	5880.000	5881.000	5882.000	5883.000	5884.000	5885.000	5886.000
887.4	5887.000	5888.000	5889.000	5890.000	5891.000	5892.000	5893.000	5894.000	5895.000	5896.000
887.5	5897.000	5898.000	5899.000	5900.000	5901.000	5902.000	5903.000	5904.000	5905.000	5906.000
887.6	5907.000	5908.000	5909.000	5910.000	5911.000	5912.000	5913.000	5914.000	5915.000	5916.000
887.7	5917.000	5918.000	5919.000	5920.000	5921.000	5922.000	5923.000	5924.000	5925.000	5926.000
887.8	5927.000	5928.000	5929.000	5930.000	5931.000	5932.000	5933.000	5934.000	5935.000	5936.000
887.9	5937.000	5938.000	5939.000	5940.000	5941.000	5942.000	5943.000	5944.000	5945.000	5946.000
888.0	5947.000	5948.000	5949.000	5950.000	5951.000	5952.000	5953.000	5954.000	5955.000	5956.000
888.1	5957.000	5958.000	5959.000	5960.000	5961.000	5962.000	5963.000	5964.000	5965.000	5966.000
888.2	5967.000	5968.000	5969.000	5970.000	5971.000	5972.000	5973.000	5974.000	5975.000	5976.000
888.3	5977.000	5978.000	5979.000	5980.000	5981.000	5982.000	5983.000	5984.000	5985.000	5986.000
888.4	5987.000	5988.000	5989.000	5990.000	5991.000	5992.000	5993.000	5994.000	5995.000	5996.000
888.5	5997.000	5998.000	5999.000	6000.000	6001.000	6002.000	6003.000	6004.000	6005.000	6006.000
888.6	6007.000	6008.000	6009.000	6010.000	6011.000	6012.000	6013.000	6014.000	6015.000	6016.000
888.7	6017.000	6018.000	6019.000	6020.000	6021.000	6022.000	6023.000	6024.000	6025.000	6026.000
888.8	6027.000	6028.000	6029.000	6030.000	6031.000	6032.000	6033.000	6034.000	6035.000	6036.000
888.9	6037.000	6038.000	6039.000	6040.000	6041.000	6042.000	6043.000	6044.000	6045.000	6046.000
889.0	6047.000	6048.010	6049.020	6050.030	6051.040	6052.050	6053.060	6054.070	6055.080	6056.090
889.1	6057.100	6058.110	6059.120	6060.130	6061.140	6062.150	6063.160	6064.170	6065.180	6066.190
889.2	6067.200	6068.210	6069.220	6070.230	6071.240	6072.250	6073.260	6074.270	6075.280	6076.290
889.3	6077.300	6078.310	6079.320	6080.330	6081.340	6082.350	6083.360	6084.370	6085.380	6086.390
889.4	6087.400	6088.410	6089.420	6090.430	6091.440	6092.450	6093.460	6094.470	6095.480	6096.490
889.5	6097.500	6098.510	6099.520	6100.530	6101.540	6102.550	6103.560	6104.570	6105.580	6106.590
889.6	6107.600	6108.610	6109.620	6110.630	6111.640	6112.650	6113.660	6114.670	6115.680	6116.690
889.7	6117.700	6118.710	6119.720	6120.730	6121.740	6122.750	6123.760	6124.770	6125.780	6126.790
889.8	6127.800	6128.810	6129.820	6130.830	6131.840	6132.850	6133.860	6134.870	6135.880	6136.890
889.9	6137.900	6138.910	6139.920	6140.930	6141.940	6142.950	6143.960	6144.970	6145.980	6146.990
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
890.0	6148.000	6149.020	6150.040	6151.060	6152.080	6153.100	6154.120	6155.140	6156.160	6157.180
890.1	6158.200	6159.220	6160.240	6161.260	6162.280	6163.300	6164.320	6165.340	6166.360	6167.380
890.2	6168.400	6169.420	6170.440	6171.460	6172.480	6173.500	6174.520	6175.540	6176.560	6177.580
890.3	6178.600	6179.620	6180.640	6181.660	6182.680	6183.700	6184.720	6185.740	6186.760	6187.780
890.4	6188.800	6189.820	6190.840	6191.860	6192.880	6193.900	6194.920	6195.940	6196.960	6197.980
890.5	6199.000	6200.020	6201.040	6202.060	6203.080	6204.100	6205.120	6206.140	6207.160	6208.180
890.6	6209.200	6210.220	6211.240	6212.260	6213.280	6214.300	6215.320	6216.340	6217.360	6218.380
890.7	6219.400	6220.420	6221.440	6222.460	6223.480	6224.500	6225.520	6226.540	6227.560	6228.580
890.8	6229.600	6230.620	6231.640	6232.660	6233.680	6234.700	6235.720	6236.740	6237.760	6238.780
890.9	6239.800	6240.820	6241.840	6242.860	6243.880	6244.900	6245.920	6246.940	6247.960	6248.980
891.0	6250.000	6251.010	6252.020	6253.030	6254.040	6255.050	6256.060	6257.070	6258.080	6259.090
891.1	6260.100	6261.110	6262.120	6263.130	6264.140	6265.150	6266.160	6267.170	6268.180	6269.190
891.2	6270.200	6271.210	6272.220	6273.230	6274.240	6275.250	6276.260	6277.270	6278.280	6279.290
891.3	6280.300	6281.310	6282.320	6283.330	6284.340	6285.350	6286.360	6287.370	6288.380	6289.390
891.4	6290.400	6291.410	6292.420	6293.430	6294.440	6295.450	6296.460	6297.470	6298.480	6299.490
891.5	6300.500	6301.510	6302.520	6303.530	6304.540	6305.550	6306.560	6307.570	6308.580	6309.590
891.6	6310.600	6311.610	6312.620	6313.630	6314.640	6315.650	6316.660	6317.670	6318.680	6319.690
891.7	6320.700	6321.710	6322.720	6323.730	6324.740	6325.750	6326.760	6327.770	6328.780	6329.790
891.8	6330.800	6331.810	6332.820	6333.830	6334.840	6335.850	6336.860	6337.870	6338.880	6339.890
891.9	6340.900	6341.910	6342.920	6343.930	6344.940	6345.950	6346.960	6347.970	6348.980	6349.990
892.0	6351.000	6352.000	6353.000	6354.000	6355.000	6356.000	6357.000	6358.000	6359.000	6360.000
892.1	6361.000	6362.000	6363.000	6364.000	6365.000	6366.000	6367.000	6368.000	6369.000	6370.000
892.2	6371.000	6372.000	6373.000	6374.000	6375.000	6376.000	6377.000	6378.000	6379.000	6380.000
892.3	6381.000	6382.000	6383.000	6384.000	6385.000	6386.000	6387.000	6388.000	6389.000	6390.000
892.4	6391.000	6392.000	6393.000	6394.000	6395.000	6396.000	6397.000	6398.000	6399.000	6400.000
892.5	6401.000	6402.000	6403.000	6404.000	6405.000	6406.000	6407.000	6408.000	6409.000	6410.000
892.6	6411.000	6412.000	6413.000	6414.000	6415.000	6416.000	6417.000	6418.000	6419.000	6420.000
892.7	6421.000	6422.000	6423.000	6424.000	6425.000	6426.000	6427.000	6428.000	6429.000	6430.000
892.8	6431.000	6432.000	6433.000	6434.000	6435.000	6436.000	6437.000	6438.000	6439.000	6440.000
892.9	6441.000	6442.000	6443.000	6444.000	6445.000	6446.000	6447.000	6448.000	6449.000	6450.000
893.0	6451.000	6452.020	6453.040	6454.060	6455.080	6456.100	6457.120	6458.140	6459.160	6460.180
893.1	6461.200	6462.220	6463.240	6464.260	6465.280	6466.300	6467.320	6468.340	6469.360	6470.380
893.2	6471.400	6472.420	6473.440	6474.460	6475.480	6476.500	6477.520	6478.540	6479.560	6480.580
893.3	6481.600	6482.620	6483.640	6484.660	6485.680	6486.700	6487.720	6488.740	6489.760	6490.780
893.4	6491.800	6492.820	6493.840	6494.860	6495.880	6496.900	6497.920	6498.940	6499.960	6500.980
893.5	6502.000	6503.020	6504.040	6505.060	6506.080	6507.100	6508.120	6509.140	6510.160	6511.180
893.6	6512.200	6513.220	6514.240	6515.260	6516.280	6517.300	6518.320	6519.340	6520.360	6521.380
893.7	6522.400	6523.420	6524.440	6525.460	6526.480	6527.500	6528.520	6529.540	6530.560	6531.580
893.8	6532.600	6533.620	6534.640	6535.660	6536.680	6537.700	6538.720	6539.740	6540.760	6541.780
893.9	6542.800	6543.820	6544.840	6545.860	6546.880	6547.900	6548.920	6549.940	6550.960	6551.980
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
894.0	6553.000	6554.040	6555.080	6556.120	6557.160	6558.200	6559.240	6560.280	6561.320	6562.360
894.1	6563.400	6564.440	6565.480	6566.520	6567.560	6568.600	6569.640	6570.680	6571.720	6572.760
894.2	6573.800	6574.840	6575.880	6576.920	6577.960	6579.000	6580.040	6581.080	6582.120	6583.160
894.3	6584.200	6585.240	6586.280	6587.320	6588.360	6589.400	6590.440	6591.480	6592.520	6593.560
894.4	6594.600	6595.640	6596.680	6597.720	6598.760	6599.800	6600.840	6601.880	6602.920	6603.960
894.5	6605.000	6606.040	6607.080	6608.120	6609.160	6610.200	6611.240	6612.280	6613.320	6614.360
894.6	6615.400	6616.440	6617.480	6618.520	6619.560	6620.600	6621.640	6622.680	6623.720	6624.760
894.7	6625.800	6626.840	6627.880	6628.920	6629.960	6631.000	6632.040	6633.080	6634.120	6635.160
894.8	6636.200	6637.240	6638.280	6639.320	6640.360	6641.400	6642.440	6643.480	6644.520	6645.560
894.9	6646.600	6647.640	6648.680	6649.720	6650.760	6651.800	6652.840	6653.880	6654.920	6655.960
895.0	6657.000	6658.030	6659.060	6660.090	6661.120	6662.150	6663.180	6664.210	6665.240	6666.270
895.1	6667.300	6668.330	6669.360	6670.390	6671.420	6672.450	6673.480	6674.510	6675.540	6676.570
895.2	6677.600	6678.630	6679.660	6680.690	6681.720	6682.750	6683.780	6684.810	6685.840	6686.870
895.3	6687.900	6688.930	6689.960	6690.990	6692.020	6693.050	6694.080	6695.110	6696.140	6697.170
895.4	6698.200	6699.230	6700.260	6701.290	6702.320	6703.350	6704.380	6705.410	6706.440	6707.470
895.5	6708.500	6709.530	6710.560	6711.590	6712.620	6713.650	6714.680	6715.710	6716.740	6717.770
895.6	6718.800	6719.830	6720.860	6721.890	6722.920	6723.950	6724.980	6726.010	6727.040	6728.070
895.7	6729.100	6730.130	6731.160	6732.190	6733.220	6734.250	6735.280	6736.310	6737.340	6738.370
895.8	6739.400	6740.430	6741.460	6742.490	6743.520	6744.550	6745.580	6746.610	6747.640	6748.670
895.9	6749.700	6750.730	6751.760	6752.790	6753.820	6754.850	6755.880	6756.910	6757.940	6758.970
896.0	6760.000	6761.040	6762.080	6763.120	6764.160	6765.200	6766.240	6767.280	6768.320	6769.360
896.1	6770.400	6771.440	6772.480	6773.520	6774.560	6775.600	6776.640	6777.680	6778.720	6779.760
896.2	6780.800	6781.840	6782.880	6783.920	6784.960	6786.000	6787.040	6788.080	6789.120	6790.160
896.3	6791.200	6792.240	6793.280	6794.320	6795.360	6796.400	6797.440	6798.480	6799.520	6800.560
896.4	6801.600	6802.640	6803.680	6804.720	6805.760	6806.800	6807.840	6808.880	6809.920	6810.960
896.5	6812.000	6813.040	6814.080	6815.120	6816.160	6817.200	6818.240	6819.280	6820.320	6821.360
896.6	6822.400	6823.440	6824.480	6825.520	6826.560	6827.600	6828.640	6829.680	6830.720	6831.760
896.7	6832.800	6833.840	6834.880	6835.920	6836.960	6838.000	6839.040	6840.080	6841.120	6842.160
896.8	6843.200	6844.240	6845.280	6846.320	6847.360	6848.400	6849.440	6850.480	6851.520	6852.560
896.9	6853.600	6854.640	6855.680	6856.720	6857.760	6858.800	6859.840	6860.880	6861.920	6862.960
897.0	6864.000	6865.050	6866.100	6867.150	6868.200	6869.250	6870.300	6871.350	6872.400	6873.450
897.1	6874.500	6875.550	6876.600	6877.650	6878.700	6879.750	6880.800	6881.850	6882.900	6883.950
897.2	6885.000	6886.050	6887.100	6888.150	6889.200	6890.250	6891.300	6892.350	6893.400	6894.450
897.3	6895.500	6896.550	6897.600	6898.650	6899.700	6900.750	6901.800	6902.850	6903.900	6904.950
897.4	6906.000	6907.050	6908.100	6909.150	6910.200	6911.250	6912.300	6913.350	6914.400	6915.450
897.5	6916.500	6917.550	6918.600	6919.650	6920.700	6921.750	6922.800	6923.850	6924.900	6925.950
897.6	6927.000	6928.050	6929.100	6930.150	6931.200	6932.250	6933.300	6934.350	6935.400	6936.450
897.7	6937.500	6938.550	6939.600	6940.650	6941.700	6942.750	6943.800	6944.850	6945.900	6946.950
897.8	6948.000	6949.050	6950.100	6951.150	6952.200	6953.250	6954.300	6955.350	6956.400	6957.450
897.9	6958.500	6959.550	6960.600	6961.650	6962.700	6963.750	6964.800	6965.850	6966.900	6967.950
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
898.0	6969.000	6970.070	6971.140	6972.210	6973.280	6974.350	6975.420	6976.490	6977.560	6978.630
898.1	6979.700	6980.770	6981.840	6982.910	6983.980	6985.050	6986.120	6987.190	6988.260	6989.330
898.2	6990.400	6991.470	6992.540	6993.610	6994.680	6995.750	6996.820	6997.890	6998.960	7000.030
898.3	7001.100	7002.170	7003.240	7004.310	7005.380	7006.450	7007.520	7008.590	7009.660	7010.730
898.4	7011.800	7012.870	7013.940	7015.010	7016.080	7017.150	7018.220	7019.290	7020.360	7021.430
898.5	7022.500	7023.570	7024.640	7025.710	7026.780	7027.850	7028.920	7029.990	7031.060	7032.130
898.6	7033.200	7034.270	7035.340	7036.410	7037.480	7038.550	7039.620	7040.690	7041.760	7042.830
898.7	7043.900	7044.970	7046.040	7047.110	7048.180	7049.250	7050.320	7051.390	7052.460	7053.530
898.8	7054.600	7055.670	7056.740	7057.810	7058.880	7059.950	7061.020	7062.090	7063.160	7064.230
898.9	7065.300	7066.370	7067.440	7068.510	7069.580	7070.650	7071.720	7072.790	7073.860	7074.930
899.0	7076.000	7077.100	7078.200	7079.300	7080.400	7081.500	7082.600	7083.700	7084.800	7085.900
899.1	7087.000	7088.100	7089.200	7090.300	7091.400	7092.500	7093.600	7094.700	7095.800	7096.900
899.2	7098.000	7099.100	7100.200	7101.300	7102.400	7103.500	7104.600	7105.700	7106.800	7107.900
899.3	7109.000	7110.100	7111.200	7112.300	7113.400	7114.500	7115.600	7116.700	7117.800	7118.900
899.4	7120.000	7121.100	7122.200	7123.300	7124.400	7125.500	7126.600	7127.700	7128.800	7129.900
899.5	7131.000	7132.100	7133.200	7134.300	7135.400	7136.500	7137.600	7138.700	7139.800	7140.900
899.6	7142.000	7143.100	7144.200	7145.300	7146.400	7147.500	7148.600	7149.700	7150.800	7151.900
899.7	7153.000	7154.100	7155.200	7156.300	7157.400	7158.500	7159.600	7160.700	7161.800	7162.900
899.8	7164.000	7165.100	7166.200	7167.300	7168.400	7169.500	7170.600	7171.700	7172.800	7173.900
899.9	7175.000	7176.100	7177.200	7178.300	7179.400	7180.500	7181.600	7182.700	7183.800	7184.900
900.0	7186.000	7187.120	7188.240	7189.360	7190.480	7191.600	7192.720	7193.840	7194.960	7196.080
900.1	7197.200	7198.320	7199.440	7200.560	7201.680	7202.800	7203.920	7205.040	7206.160	7207.280
900.2	7208.400	7209.520	7210.640	7211.760	7212.880	7214.000	7215.120	7216.240	7217.360	7218.480
900.3	7219.600	7220.720	7221.840	7222.960	7224.080	7225.200	7226.320	7227.440	7228.560	7229.680
900.4	7230.800	7231.920	7233.040	7234.160	7235.280	7236.400	7237.520	7238.640	7239.760	7240.880
900.5	7242.000	7243.120	7244.240	7245.360	7246.480	7247.600	7248.720	7249.840	7250.960	7252.080
900.6	7253.200	7254.320	7255.440	7256.560	7257.680	7258.800	7259.920	7261.040	7262.160	7263.280
900.7	7264.400	7265.520	7266.640	7267.760	7268.880	7270.000	7271.120	7272.240	7273.360	7274.480
900.8	7275.600	7276.720	7277.840	7278.960	7280.080	7281.200	7282.320	7283.440	7284.560	7285.680
900.9	7286.800	7287.920	7289.040	7290.160	7291.280	7292.400	7293.520	7294.640	7295.760	7296.880
901.0	7298.000	7299.120	7300.240	7301.360	7302.480	7303.600	7304.720	7305.840	7306.960	7308.080
901.1	7309.200	7310.320	7311.440	7312.560	7313.680	7314.800	7315.920	7317.040	7318.160	7319.280
901.2	7320.400	7321.520	7322.640	7323.760	7324.880	7326.000	7327.120	7328.240	7329.360	7330.480
901.3	7331.600	7332.720	7333.840	7334.960	7336.080	7337.200	7338.320	7339.440	7340.560	7341.680
901.4	7342.800	7343.920	7345.040	7346.160	7347.280	7348.400	7349.520	7350.640	7351.760	7352.880
901.5	7354.000	7355.120	7356.240	7357.360	7358.480	7359.600	7360.720	7361.840	7362.960	7364.080
901.6	7365.200	7366.320	7367.440	7368.560	7369.680	7370.800	7371.920	7373.040	7374.160	7375.280
901.7	7376.400	7377.520	7378.640	7379.760	7380.880	7382.000	7383.120	7384.240	7385.360	7386.480
901.8	7387.600	7388.720	7389.840	7390.960	7392.080	7393.200	7394.320	7395.440	7396.560	7397.680
901.9	7398.800	7399.920	7401.040	7402.160	7403.280	7404.400	7405.520	7406.640	7407.760	7408.880
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
902.0	7410.000	7411.160	7412.320	7413.480	7414.640	7415.800	7416.960	7418.120	7419.280	7420.440
902.1	7421.600	7422.760	7423.920	7425.080	7426.240	7427.400	7428.560	7429.720	7430.880	7432.040
902.2	7433.200	7434.360	7435.520	7436.680	7437.840	7439.000	7440.160	7441.320	7442.480	7443.640
902.3	7444.800	7445.960	7447.120	7448.280	7449.440	7450.600	7451.760	7452.920	7454.080	7455.240
902.4	7456.400	7457.560	7458.720	7459.880	7461.040	7462.200	7463.360	7464.520	7465.680	7466.840
902.5	7468.000	7469.160	7470.320	7471.480	7472.640	7473.800	7474.960	7476.120	7477.280	7478.440
902.6	7479.600	7480.760	7481.920	7483.080	7484.240	7485.400	7486.560	7487.720	7488.880	7490.040
902.7	7491.200	7492.360	7493.520	7494.680	7495.840	7497.000	7498.160	7499.320	7500.480	7501.640
902.8	7502.800	7503.960	7505.120	7506.280	7507.440	7508.600	7509.760	7510.920	7512.080	7513.240
902.9	7514.400	7515.560	7516.720	7517.880	7519.040	7520.200	7521.360	7522.520	7523.680	7524.840
903.0	7526.000	7527.220	7528.440	7529.660	7530.880	7532.100	7533.320	7534.540	7535.760	7536.980
903.1	7538.200	7539.420	7540.640	7541.860	7543.080	7544.300	7545.520	7546.740	7547.960	7549.180
903.2	7550.400	7551.620	7552.840	7554.060	7555.280	7556.500	7557.720	7558.940	7560.160	7561.380
903.3	7562.600	7563.820	7565.040	7566.260	7567.480	7568.700	7569.920	7571.140	7572.360	7573.580
903.4	7574.800	7576.020	7577.240	7578.460	7579.680	7580.900	7582.120	7583.340	7584.560	7585.780
903.5	7587.000	7588.220	7589.440	7590.660	7591.880	7593.100	7594.320	7595.540	7596.760	7597.980
903.6	7599.200	7600.420	7601.640	7602.860	7604.080	7605.300	7606.520	7607.740	7608.960	7610.180
903.7	7611.400	7612.620	7613.840	7615.060	7616.280	7617.500	7618.720	7619.940	7621.160	7622.380
903.8	7623.600	7624.820	7626.040	7627.260	7628.480	7629.700	7630.920	7632.140	7633.360	7634.580
903.9	7635.800	7637.020	7638.240	7639.460	7640.680	7641.900	7643.120	7644.340	7645.560	7646.780
904.0	7648.000	7649.220	7650.440	7651.660	7652.880	7654.100	7655.320	7656.540	7657.760	7658.980
904.1	7660.200	7661.420	7662.640	7663.860	7665.080	7666.300	7667.520	7668.740	7669.960	7671.180
904.2	7672.400	7673.620	7674.840	7676.060	7677.280	7678.500	7679.720	7680.940	7682.160	7683.380
904.3	7684.600	7685.820	7687.040	7688.260	7689.480	7690.700	7691.920	7693.140	7694.360	7695.580
904.4	7696.800	7698.020	7699.240	7700.460	7701.680	7702.900	7704.120	7705.340	7706.560	7707.780
904.5	7709.000	7710.220	7711.440	7712.660	7713.880	7715.100	7716.320	7717.540	7718.760	7719.980
904.6	7721.200	7722.420	7723.640	7724.860	7726.080	7727.300	7728.520	7729.740	7730.960	7732.180
904.7	7733.400	7734.620	7735.840	7737.060	7738.280	7739.500	7740.720	7741.940	7743.160	7744.380
904.8	7745.600	7746.820	7748.040	7749.260	7750.480	7751.700	7752.920	7754.140	7755.360	7756.580
904.9	7757.800	7759.020	7760.240	7761.460	7762.680	7763.900	7765.120	7766.340	7767.560	7768.780
905.0	7770.000	7771.190	7772.380	7773.570	7774.760	7775.950	7777.140	7778.330	7779.520	7780.710
905.1	7781.900	7783.090	7784.280	7785.470	7786.660	7787.850	7789.040	7790.230	7791.420	7792.610
905.2	7793.800	7794.990	7796.180	7797.370	7798.560	7799.750	7800.940	7802.130	7803.320	7804.510
905.3	7805.700	7806.890	7808.080	7809.270	7810.460	7811.650	7812.840	7814.030	7815.220	7816.410
905.4	7817.600	7818.790	7819.980	7821.170	7822.360	7823.550	7824.740	7825.930	7827.120	7828.310
905.5	7829.500	7830.690	7831.880	7833.070	7834.260	7835.450	7836.640	7837.830	7839.020	7840.210
905.6	7841.400	7842.590	7843.780	7844.970	7846.160	7847.350	7848.540	7849.730	7850.920	7852.110
905.7	7853.300	7854.490	7855.680	7856.870	7858.060	7859.250	7860.440	7861.630	7862.820	7864.010
905.8	7865.200	7866.390	7867.580	7868.770	7869.960	7871.150	7872.340	7873.530	7874.720	7875.910
905.9	7877.100	7878.290	7879.480	7880.670	7881.860	7883.050	7884.240	7885.430	7886.620	7887.810
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
906.0	7889.000	7890.180	7891.360	7892.540	7893.720	7894.900	7896.080	7897.260	7898.440	7899.620
906.1	7900.800	7901.980	7903.160	7904.340	7905.520	7906.700	7907.880	7909.060	7910.240	7911.420
906.2	7912.600	7913.780	7914.960	7916.140	7917.320	7918.500	7919.680	7920.860	7922.040	7923.220
906.3	7924.400	7925.580	7926.760	7927.940	7929.120	7930.300	7931.480	7932.660	7933.840	7935.020
906.4	7936.200	7937.380	7938.560	7939.740	7940.920	7942.100	7943.280	7944.460	7945.640	7946.820
906.5	7948.000	7949.180	7950.360	7951.540	7952.720	7953.900	7955.080	7956.260	7957.440	7958.620
906.6	7959.800	7960.980	7962.160	7963.340	7964.520	7965.700	7966.880	7968.060	7969.240	7970.420
906.7	7971.600	7972.780	7973.960	7975.140	7976.320	7977.500	7978.680	7979.860	7981.040	7982.220
906.8	7983.400	7984.580	7985.760	7986.940	7988.120	7989.300	7990.480	7991.660	7992.840	7994.020
906.9	7995.200	7996.380	7997.560	7998.740	7999.920	8001.100	8002.280	8003.460	8004.640	8005.820
907.0	8007.000	8008.140	8009.280	8010.420	8011.560	8012.700	8013.840	8014.980	8016.120	8017.260
907.1	8018.400	8019.540	8020.680	8021.820	8022.960	8024.100	8025.240	8026.380	8027.520	8028.660
907.2	8029.800	8030.940	8032.080	8033.220	8034.360	8035.500	8036.640	8037.780	8038.920	8040.060
907.3	8041.200	8042.340	8043.480	8044.620	8045.760	8046.900	8048.040	8049.180	8050.320	8051.460
907.4	8052.600	8053.740	8054.880	8056.020	8057.160	8058.300	8059.440	8060.580	8061.720	8062.860
907.5	8064.000	8065.140	8066.280	8067.420	8068.560	8069.700	8070.840	8071.980	8073.120	8074.260
907.6	8075.400	8076.540	8077.680	8078.820	8079.960	8081.100	8082.240	8083.380	8084.520	8085.660
907.7	8086.800	8087.940	8089.080	8090.220	8091.360	8092.500	8093.640	8094.780	8095.920	8097.060
907.8	8098.200	8099.340	8100.480	8101.620	8102.760	8103.900	8105.040	8106.180	8107.320	8108.460
907.9	8109.600	8110.740	8111.880	8113.020	8114.160	8115.300	8116.440	8117.580	8118.720	8119.860
908.0	8121.000	8122.870	8124.740	8126.610	8128.480	8130.350	8132.220	8134.090	8135.960	8137.830
908.1	8139.700	8141.570	8143.440	8145.310	8147.180	8149.050	8150.920	8152.790	8154.660	8156.530
908.2	8158.400	8160.270	8162.140	8164.010	8165.880	8167.750	8169.620	8171.490	8173.360	8175.230
908.3	8177.100	8178.970	8180.840	8182.710	8184.580	8186.450	8188.320	8190.190	8192.060	8193.930
908.4	8195.800	8197.670	8199.540	8201.410	8203.280	8205.150	8207.020	8208.890	8210.760	8212.630
908.5	8214.500	8216.370	8218.240	8220.110	8221.980	8223.850	8225.720	8227.590	8229.460	8231.330
908.6	8233.200	8235.070	8236.940	8238.810	8240.680	8242.550	8244.420	8246.290	8248.160	8250.030
908.7	8251.900	8253.770	8255.640	8257.510	8259.380	8261.250	8263.120	8264.990	8266.860	8268.730
908.8	8270.600	8272.470	8274.340	8276.210	8278.080	8279.950	8281.820	8283.690	8285.560	8287.430
908.9	8289.300	8291.170	8293.040	8294.910	8296.780	8298.650	8300.520	8302.390	8304.260	8306.130
909.0	8308.000	8308.810	8309.620	8310.430	8311.240	8312.050	8312.860	8313.670	8314.480	8315.290
909.1	8316.100	8316.910	8317.720	8318.530	8319.340	8320.150	8320.960	8321.770	8322.580	8323.390
909.2	8324.200	8325.010	8325.820	8326.630	8327.440	8328.250	8329.060	8329.870	8330.680	8331.490
909.3	8332.300	8333.110	8333.920	8334.730	8335.540	8336.350	8337.160	8337.970	8338.780	8339.590
909.4	8340.400	8341.210	8342.020	8342.830	8343.640	8344.450	8345.260	8346.070	8346.880	8347.690
909.5	8348.500	8349.310	8350.120	8350.930	8351.740	8352.550	8353.360	8354.170	8354.980	8355.790
909.6	8356.600	8357.410	8358.220	8359.030	8359.840	8360.650	8361.460	8362.270	8363.080	8363.890
909.7	8364.700	8365.510	8366.320	8367.130	8367.940	8368.750	8369.560	8370.370	8371.180	8371.990
909.8	8372.800	8373.610	8374.420	8375.230	8376.040	8376.850	8377.660	8378.470	8379.280	8380.090
909.9	8380.900	8381.710	8382.520	8383.330	8384.140	8384.950	8385.760	8386.570	8387.380	8388.190
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
910.0	8389.000	8389.960	8390.920	8391.880	8392.840	8393.800	8394.760	8395.720	8396.680	8397.640
910.1	8398.600	8399.560	8400.520	8401.480	8402.440	8403.400	8404.360	8405.320	8406.280	8407.240
910.2	8408.200	8409.160	8410.120	8411.080	8412.040	8413.000	8413.960	8414.920	8415.880	8416.840
910.3	8417.800	8418.760	8419.720	8420.680	8421.640	8422.600	8423.560	8424.520	8425.480	8426.440
910.4	8427.400	8428.360	8429.320	8430.280	8431.240	8432.200	8433.160	8434.120	8435.080	8436.040
910.5	8437.000	8437.960	8438.920	8439.880	8440.840	8441.800	8442.760	8443.720	8444.680	8445.640
910.6	8446.600	8447.560	8448.520	8449.480	8450.440	8451.400	8452.360	8453.320	8454.280	8455.240
910.7	8456.200	8457.160	8458.120	8459.080	8460.040	8461.000	8461.960	8462.920	8463.880	8464.840
910.8	8465.800	8466.760	8467.720	8468.680	8469.640	8470.600	8471.560	8472.520	8473.480	8474.440
910.9	8475.400	8476.360	8477.320	8478.280	8479.240	8480.200	8481.160	8482.120	8483.080	8484.040
911.0	8485.000	8485.920	8486.840	8487.760	8488.680	8489.600	8490.520	8491.440	8492.360	8493.280
911.1	8494.200	8495.120	8496.040	8496.960	8497.880	8498.800	8499.720	8500.640	8501.560	8502.480
911.2	8503.400	8504.320	8505.240	8506.160	8507.080	8508.000	8508.920	8509.840	8510.760	8511.680
911.3	8512.600	8513.520	8514.440	8515.360	8516.280	8517.200	8518.120	8519.040	8519.960	8520.880
911.4	8521.800	8522.720	8523.640	8524.560	8525.480	8526.400	8527.320	8528.240	8529.160	8530.080
911.5	8531.000	8531.920	8532.840	8533.760	8534.680	8535.600	8536.520	8537.440	8538.360	8539.280
911.6	8540.200	8541.120	8542.040	8542.960	8543.880	8544.800	8545.720	8546.640	8547.560	8548.480
911.7	8549.400	8550.320	8551.240	8552.160	8553.080	8554.000	8554.920	8555.840	8556.760	8557.680
911.8	8558.600	8559.520	8560.440	8561.360	8562.280	8563.200	8564.120	8565.040	8565.960	8566.880
911.9	8567.800	8568.720	8569.640	8570.560	8571.480	8572.400	8573.320	8574.240	8575.160	8576.080
912.0	8577.000	8578.000	8579.000	8580.000	8581.000	8582.000	8583.000	8584.000	8585.000	8586.000
912.1	8587.000	8588.000	8589.000	8590.000	8591.000	8592.000	8593.000	8594.000	8595.000	8596.000
912.2	8597.000	8598.000	8599.000	8600.000	8601.000	8602.000	8603.000	8604.000	8605.000	8606.000
912.3	8607.000	8608.000	8609.000	8610.000	8611.000	8612.000	8613.000	8614.000	8615.000	8616.000
912.4	8617.000	8618.000	8619.000	8620.000	8621.000	8622.000	8623.000	8624.000	8625.000	8626.000
912.5	8627.000	8628.000	8629.000	8630.000	8631.000	8632.000	8633.000	8634.000	8635.000	8636.000
912.6	8637.000	8638.000	8639.000	8640.000	8641.000	8642.000	8643.000	8644.000	8645.000	8646.000
912.7	8647.000	8648.000	8649.000	8650.000	8651.000	8652.000	8653.000	8654.000	8655.000	8656.000
912.8	8657.000	8658.000	8659.000	8660.000	8661.000	8662.000	8663.000	8664.000	8665.000	8666.000
912.9	8667.000	8668.000	8669.000	8670.000	8671.000	8672.000	8673.000	8674.000	8675.000	8676.000
913.0	8677.000	8678.150	8679.300	8680.450	8681.600	8682.750	8683.900	8685.050	8686.200	8687.350
913.1	8688.500	8689.650	8690.800	8691.950	8693.100	8694.250	8695.400	8696.550	8697.700	8698.850
913.2	8700.000	8701.150	8702.300	8703.450	8704.600	8705.750	8706.900	8708.050	8709.200	8710.350
913.3	8711.500	8712.650	8713.800	8714.950	8716.100	8717.250	8718.400	8719.550	8720.700	8721.850
913.4	8723.000	8724.150	8725.300	8726.450	8727.600	8728.750	8729.900	8731.050	8732.200	8733.350
913.5	8734.500	8735.650	8736.800	8737.950	8739.100	8740.250	8741.400	8742.550	8743.700	8744.850
913.6	8746.000	8747.150	8748.300	8749.450	8750.600	8751.750	8752.900	8754.050	8755.200	8756.350
913.7	8757.500	8758.650	8759.800	8760.950	8762.100	8763.250	8764.400	8765.550	8766.700	8767.850
913.8	8769.000	8770.150	8771.300	8772.450	8773.600	8774.750	8775.900	8777.050	8778.200	8779.350
913.9	8780.500	8781.650	8782.800	8783.950	8785.100	8786.250	8787.400	8788.550	8789.700	8790.850
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
914.0	8792.000	8793.080	8794.160	8795.240	8796.320	8797.400	8798.480	8799.560	8800.640	8801.720
914.1	8802.800	8803.880	8804.960	8806.040	8807.120	8808.200	8809.280	8810.360	8811.440	8812.520
914.2	8813.600	8814.680	8815.760	8816.840	8817.920	8819.000	8820.080	8821.160	8822.240	8823.320
914.3	8824.400	8825.480	8826.560	8827.640	8828.720	8829.800	8830.880	8831.960	8833.040	8834.120
914.4	8835.200	8836.280	8837.360	8838.440	8839.520	8840.600	8841.680	8842.760	8843.840	8844.920
914.5	8846.000	8847.080	8848.160	8849.240	8850.320	8851.400	8852.480	8853.560	8854.640	8855.720
914.6	8856.800	8857.880	8858.960	8860.040	8861.120	8862.200	8863.280	8864.360	8865.440	8866.520
914.7	8867.600	8868.680	8869.760	8870.840	8871.920	8873.000	8874.080	8875.160	8876.240	8877.320
914.8	8878.400	8879.480	8880.560	8881.640	8882.720	8883.800	8884.880	8885.960	8887.040	8888.120
914.9	8889.200	8890.280	8891.360	8892.440	8893.520	8894.600	8895.680	8896.760	8897.840	8898.920
915.0	8900.000	8901.290	8902.580	8903.870	8905.160	8906.450	8907.740	8909.030	8910.320	8911.610
915.1	8912.900	8914.190	8915.480	8916.770	8918.060	8919.350	8920.640	8921.930	8923.220	8924.510
915.2	8925.800	8927.090	8928.380	8929.670	8930.960	8932.250	8933.540	8934.830	8936.120	8937.410
915.3	8938.700	8939.990	8941.280	8942.570	8943.860	8945.150	8946.440	8947.730	8949.020	8950.310
915.4	8951.600	8952.890	8954.180	8955.470	8956.760	8958.050	8959.340	8960.630	8961.920	8963.210
915.5	8964.500	8965.790	8967.080	8968.370	8969.660	8970.950	8972.240	8973.530	8974.820	8976.110
915.6	8977.400	8978.690	8979.980	8981.270	8982.560	8983.850	8985.140	8986.430	8987.720	8989.010
915.7	8990.300	8991.590	8992.880	8994.170	8995.460	8996.750	8998.040	8999.330	9000.620	9001.910
915.8	9003.200	9004.490	9005.780	9007.070	9008.360	9009.650	9010.940	9012.230	9013.520	9014.810
915.9	9016.100	9017.390	9018.680	9019.970	9021.260	9022.550	9023.840	9025.130	9026.420	9027.710
916.0	9029.000	9030.300	9031.600	9032.900	9034.200	9035.500	9036.800	9038.100	9039.400	9040.700
916.1	9042.000	9043.300	9044.600	9045.900	9047.200	9048.500	9049.800	9051.100	9052.400	9053.700
916.2	9055.000	9056.300	9057.600	9058.900	9060.200	9061.500	9062.800	9064.100	9065.400	9066.700
916.3	9068.000	9069.300	9070.600	9071.900	9073.200	9074.500	9075.800	9077.100	9078.400	9079.700
916.4	9081.000	9082.300	9083.600	9084.900	9086.200	9087.500	9088.800	9090.100	9091.400	9092.700
916.5	9094.000	9095.300	9096.600	9097.900	9099.200	9100.500	9101.800	9103.100	9104.400	9105.700
916.6	9107.000	9108.300	9109.600	9110.900	9112.200	9113.500	9114.800	9116.100	9117.400	9118.700
916.7	9120.000	9121.300	9122.600	9123.900	9125.200	9126.500	9127.800	9129.100	9130.400	9131.700
916.8	9133.000	9134.300	9135.600	9136.900	9138.200	9139.500	9140.800	9142.100	9143.400	9144.700
916.9	9146.000	9147.300	9148.600	9149.900	9151.200	9152.500	9153.800	9155.100	9156.400	9157.700
917.0	9159.000	9160.250	9161.500	9162.750	9164.000	9165.250	9166.500	9167.750	9169.000	9170.250
917.1	9171.500	9172.750	9174.000	9175.250	9176.500	9177.750	9179.000	9180.250	9181.500	9182.750
917.2	9184.000	9185.250	9186.500	9187.750	9189.000	9190.250	9191.500	9192.750	9194.000	9195.250
917.3	9196.500	9197.750	9199.000	9200.250	9201.500	9202.750	9204.000	9205.250	9206.500	9207.750
917.4	9209.000	9210.250	9211.500	9212.750	9214.000	9215.250	9216.500	9217.750	9219.000	9220.250
917.5	9221.500	9222.750	9224.000	9225.250	9226.500	9227.750	9229.000	9230.250	9231.500	9232.750
917.6	9234.000	9235.250	9236.500	9237.750	9239.000	9240.250	9241.500	9242.750	9244.000	9245.250
917.7	9246.500	9247.750	9249.000	9250.250	9251.500	9252.750	9254.000	9255.250	9256.500	9257.750
917.8	9259.000	9260.250	9261.500	9262.750	9264.000	9265.250	9266.500	9267.750	9269.000	9270.250
917.9	9271.500	9272.750	9274.000	9275.250	9276.500	9277.750	9279.000	9280.250	9281.500	9282.750
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
918.0	9284.000	9285.130	9286.260	9287.390	9288.520	9289.650	9290.780	9291.910	9293.040	9294.170
918.1	9295.300	9296.430	9297.560	9298.690	9299.820	9300.950	9302.080	9303.210	9304.340	9305.470
918.2	9306.600	9307.730	9308.860	9309.990	9311.120	9312.250	9313.380	9314.510	9315.640	9316.770
918.3	9317.900	9319.030	9320.160	9321.290	9322.420	9323.550	9324.680	9325.810	9326.940	9328.070
918.4	9329.200	9330.330	9331.460	9332.590	9333.720	9334.850	9335.980	9337.110	9338.240	9339.370
918.5	9340.500	9341.630	9342.760	9343.890	9345.020	9346.150	9347.280	9348.410	9349.540	9350.670
918.6	9351.800	9352.930	9354.060	9355.190	9356.320	9357.450	9358.580	9359.710	9360.840	9361.970
918.7	9363.100	9364.230	9365.360	9366.490	9367.620	9368.750	9369.880	9371.010	9372.140	9373.270
918.8	9374.400	9375.530	9376.660	9377.790	9378.920	9380.050	9381.180	9382.310	9383.440	9384.570
918.9	9385.700	9386.830	9387.960	9389.090	9390.220	9391.350	9392.480	9393.610	9394.740	9395.870
919.0	9397.000	9398.090	9399.180	9400.270	9401.360	9402.450	9403.540	9404.630	9405.720	9406.810
919.1	9407.900	9408.990	9410.080	9411.170	9412.260	9413.350	9414.440	9415.530	9416.620	9417.710
919.2	9418.800	9419.890	9420.980	9422.070	9423.160	9424.250	9425.340	9426.430	9427.520	9428.610
919.3	9429.700	9430.790	9431.880	9432.970	9434.060	9435.150	9436.240	9437.330	9438.420	9439.510
919.4	9440.600	9441.690	9442.780	9443.870	9444.960	9446.050	9447.140	9448.230	9449.320	9450.410
919.5	9451.500	9452.590	9453.680	9454.770	9455.860	9456.950	9458.040	9459.130	9460.220	9461.310
919.6	9462.400	9463.490	9464.580	9465.670	9466.760	9467.850	9468.940	9470.030	9471.120	9472.210
919.7	9473.300	9474.390	9475.480	9476.570	9477.660	9478.750	9479.840	9480.930	9482.020	9483.110
919.8	9484.200	9485.290	9486.380	9487.470	9488.560	9489.650	9490.740	9491.830	9492.920	9494.010
919.9	9495.100	9496.190	9497.280	9498.370	9499.460	9500.550	9501.640	9502.730	9503.820	9504.910
920.0	9506.000	9507.340	9508.680	9510.020	9511.360	9512.700	9514.040	9515.380	9516.720	9518.060
920.1	9519.400	9520.740	9522.080	9523.420	9524.760	9526.100	9527.440	9528.780	9530.120	9531.460
920.2	9532.800	9534.140	9535.480	9536.820	9538.160	9539.500	9540.840	9542.180	9543.520	9544.860
920.3	9546.200	9547.540	9548.880	9550.220	9551.560	9552.900	9554.240	9555.580	9556.920	9558.260
920.4	9559.600	9560.940	9562.280	9563.620	9564.960	9566.300	9567.640	9568.980	9570.320	9571.660
920.5	9573.000	9574.340	9575.680	9577.020	9578.360	9579.700	9581.040	9582.380	9583.720	9585.060
920.6	9586.400	9587.740	9589.080	9590.420	9591.760	9593.100	9594.440	9595.780	9597.120	9598.460
920.7	9599.800	9601.140	9602.480	9603.820	9605.160	9606.500	9607.840	9609.180	9610.520	9611.860
920.8	9613.200	9614.540	9615.880	9617.220	9618.560	9619.900	9621.240	9622.580	9623.920	9625.260
920.9	9626.600	9627.940	9629.280	9630.620	9631.960	9633.300	9634.640	9635.980	9637.320	9638.660
921.0	9640.000	9641.400	9642.800	9644.200	9645.600	9647.000	9648.400	9649.800	9651.200	9652.600
921.1	9654.000	9655.400	9656.800	9658.200	9659.600	9661.000	9662.400	9663.800	9665.200	9666.600
921.2	9668.000	9669.400	9670.800	9672.200	9673.600	9675.000	9676.400	9677.800	9679.200	9680.600
921.3	9682.000	9683.400	9684.800	9686.200	9687.600	9689.000	9690.400	9691.800	9693.200	9694.600
921.4	9696.000	9697.400	9698.800	9700.200	9701.600	9703.000	9704.400	9705.800	9707.200	9708.600
921.5	9710.000	9711.400	9712.800	9714.200	9715.600	9717.000	9718.400	9719.800	9721.200	9722.600
921.6	9724.000	9725.400	9726.800	9728.200	9729.600	9731.000	9732.400	9733.800	9735.200	9736.600
921.7	9738.000	9739.400	9740.800	9742.200	9743.600	9745.000	9746.400	9747.800	9749.200	9750.600
921.8	9752.000	9753.400	9754.800	9756.200	9757.600	9759.000	9760.400	9761.800	9763.200	9764.600
921.9	9766.000	9767.400	9768.800	9770.200	9771.600	9773.000	9774.400	9775.800	9777.200	9778.600
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
922.0	9780.000	9781.180	9782.360	9783.540	9784.720	9785.900	9787.080	9788.260	9789.440	9790.620
922.1	9791.800	9792.980	9794.160	9795.340	9796.520	9797.700	9798.880	9800.060	9801.240	9802.420
922.2	9803.600	9804.780	9805.960	9807.140	9808.320	9809.500	9810.680	9811.860	9813.040	9814.220
922.3	9815.400	9816.580	9817.760	9818.940	9820.120	9821.300	9822.480	9823.660	9824.840	9826.020
922.4	9827.200	9828.380	9829.560	9830.740	9831.920	9833.100	9834.280	9835.460	9836.640	9837.820
922.5	9839.000	9840.180	9841.360	9842.540	9843.720	9844.900	9846.080	9847.260	9848.440	9849.620
922.6	9850.800	9851.980	9853.160	9854.340	9855.520	9856.700	9857.880	9859.060	9860.240	9861.420
922.7	9862.600	9863.780	9864.960	9866.140	9867.320	9868.500	9869.680	9870.860	9872.040	9873.220
922.8	9874.400	9875.580	9876.760	9877.940	9879.120	9880.300	9881.480	9882.660	9883.840	9885.020
922.9	9886.200	9887.380	9888.560	9889.740	9890.920	9892.100	9893.280	9894.460	9895.640	9896.820
923.0	9898.000	9899.520	9901.040	9902.560	9904.080	9905.600	9907.120	9908.640	9910.160	9911.680
923.1	9913.200	9914.720	9916.240	9917.760	9919.280	9920.800	9922.320	9923.840	9925.360	9926.880
923.2	9928.400	9929.920	9931.440	9932.960	9934.480	9936.000	9937.520	9939.040	9940.560	9942.080
923.3	9943.600	9945.120	9946.640	9948.160	9949.680	9951.200	9952.720	9954.240	9955.760	9957.280
923.4	9958.800	9960.320	9961.840	9963.360	9964.880	9966.400	9967.920	9969.440	9970.960	9972.480
923.5	9974.000	9975.520	9977.040	9978.560	9980.080	9981.600	9983.120	9984.640	9986.160	9987.680
923.6	9989.200	9990.720	9992.240	9993.760	9995.280	9996.800	9998.320	9999.840	10001.360	10002.880
923.7	10004.400	10005.920	10007.440	10008.960	10010.480	10012.000	10013.520	10015.040	10016.560	10018.080
923.8	10019.600	10021.120	10022.640	10024.160	10025.680	10027.200	10028.720	10030.240	10031.760	10033.280
923.9	10034.800	10036.320	10037.840	10039.360	10040.880	10042.400	10043.920	10045.440	10046.960	10048.480
924.0	10050.000	10051.560	10053.120	10054.680	10056.240	10057.800	10059.360	10060.920	10062.480	10064.040
924.1	10065.600	10067.160	10068.720	10070.280	10071.840	10073.400	10074.960	10076.520	10078.080	10079.640
924.2	10081.200	10082.760	10084.320	10085.880	10087.440	10089.000	10090.560	10092.120	10093.680	10095.240
924.3	10096.800	10098.360	10099.920	10101.480	10103.040	10104.600	10106.160	10107.720	10109.280	10110.840
924.4	10112.400	10113.960	10115.520	10117.080	10118.640	10120.200	10121.760	10123.320	10124.880	10126.440
924.5	10128.000	10129.560	10131.120	10132.680	10134.240	10135.800	10137.360	10138.920	10140.480	10142.040
924.6	10143.600	10145.160	10146.720	10148.280	10149.840	10151.400	10152.960	10154.520	10156.080	10157.640
924.7	10159.200	10160.760	10162.320	10163.880	10165.440	10167.000	10168.560	10170.120	10171.680	10173.240
924.8	10174.800	10176.360	10177.920	10179.480	10181.040	10182.600	10184.160	10185.720	10187.280	10188.840
924.9	10190.400	10191.960	10193.520	10195.080	10196.640	10198.200	10199.760	10201.320	10202.880	10204.440
925.0	10206.000	10207.510	10209.020	10210.530	10212.040	10213.550	10215.060	10216.570	10218.080	10219.590
925.1	10221.100	10222.610	10224.120	10225.630	10227.140	10228.650	10230.160	10231.670	10233.180	10234.690
925.2	10236.200	10237.710	10239.220	10240.730	10242.240	10243.750	10245.260	10246.770	10248.280	10249.790
925.3	10251.300	10252.810	10254.320	10255.830	10257.340	10258.850	10260.360	10261.870	10263.380	10264.890
925.4	10266.400	10267.910	10269.420	10270.930	10272.440	10273.950	10275.460	10276.970	10278.480	10279.990
925.5	10281.500	10283.010	10284.520	10286.030	10287.540	10289.050	10290.560	10292.070	10293.580	10295.090
925.6	10296.600	10298.110	10299.620	10301.130	10302.640	10304.150	10305.660	10307.170	10308.680	10310.190
925.7	10311.700	10313.210	10314.720	10316.230	10317.740	10319.250	10320.760	10322.270	10323.780	10325.290
925.8	10326.800	10328.310	10329.820	10331.330	10332.840	10334.350	10335.860	10337.370	10338.880	10340.390
925.9	10341.900	10343.410	10344.920	10346.430	10347.940	10349.450	10350.960	10352.470	10353.980	10355.490
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
926.0	10357.000	10358.580	10360.160	10361.740	10363.320	10364.900	10366.480	10368.060	10369.640	10371.220
926.1	10372.800	10374.380	10375.960	10377.540	10379.120	10380.700	10382.280	10383.860	10385.440	10387.020
926.2	10388.600	10390.180	10391.760	10393.340	10394.920	10396.500	10398.080	10399.660	10401.240	10402.820
926.3	10404.400	10405.980	10407.560	10409.140	10410.720	10412.300	10413.880	10415.460	10417.040	10418.620
926.4	10420.200	10421.780	10423.360	10424.940	10426.520	10428.100	10429.680	10431.260	10432.840	10434.420
926.5	10436.000	10437.580	10439.160	10440.740	10442.320	10443.900	10445.480	10447.060	10448.640	10450.220
926.6	10451.800	10453.380	10454.960	10456.540	10458.120	10459.700	10461.280	10462.860	10464.440	10466.020
926.7	10467.600	10469.180	10470.760	10472.340	10473.920	10475.500	10477.080	10478.660	10480.240	10481.820
926.8	10483.400	10484.980	10486.560	10488.140	10489.720	10491.300	10492.880	10494.460	10496.040	10497.620
926.9	10499.200	10500.780	10502.360	10503.940	10505.520	10507.100	10508.680	10510.260	10511.840	10513.420
927.0	10515.000	10516.170	10517.340	10518.510	10519.680	10520.850	10522.020	10523.190	10524.360	10525.530
927.1	10526.700	10527.870	10529.040	10530.210	10531.380	10532.550	10533.720	10534.890	10536.060	10537.230
927.2	10538.400	10539.570	10540.740	10541.910	10543.080	10544.250	10545.420	10546.590	10547.760	10548.930
927.3	10550.100	10551.270	10552.440	10553.610	10554.780	10555.950	10557.120	10558.290	10559.460	10560.630
927.4	10561.800	10562.970	10564.140	10565.310	10566.480	10567.650	10568.820	10569.990	10571.160	10572.330
927.5	10573.500	10574.670	10575.840	10577.010	10578.180	10579.350	10580.520	10581.690	10582.860	10584.030
927.6	10585.200	10586.370	10587.540	10588.710	10589.880	10591.050	10592.220	10593.390	10594.560	10595.730
927.7	10596.900	10598.070	10599.240	10600.410	10601.580	10602.750	10603.920	10605.090	10606.260	10607.430
927.8	10608.600	10609.770	10610.940	10612.110	10613.280	10614.450	10615.620	10616.790	10617.960	10619.130
927.9	10620.300	10621.470	10622.640	10623.810	10624.980	10626.150	10627.320	10628.490	10629.660	10630.830
928.0	10632.000	10633.590	10635.180	10636.770	10638.360	10639.950	10641.540	10643.130	10644.720	10646.310
928.1	10647.900	10649.490	10651.080	10652.670	10654.260	10655.850	10657.440	10659.030	10660.620	10662.210
928.2	10663.800	10665.390	10666.980	10668.570	10670.160	10671.750	10673.340	10674.930	10676.520	10678.110
928.3	10679.700	10681.290	10682.880	10684.470	10686.060	10687.650	10689.240	10690.830	10692.420	10694.010
928.4	10695.600	10697.190	10698.780	10700.370	10701.960	10703.550	10705.140	10706.730	10708.320	10709.910
928.5	10711.500	10713.090	10714.680	10716.270	10717.860	10719.450	10721.040	10722.630	10724.220	10725.810
928.6	10727.400	10728.990	10730.580	10732.170	10733.760	10735.350	10736.940	10738.530	10740.120	10741.710
928.7	10743.300	10744.890	10746.480	10748.070	10749.660	10751.250	10752.840	10754.430	10756.020	10757.610
928.8	10759.200	10760.790	10762.380	10763.970	10765.560	10767.150	10768.740	10770.330	10771.920	10773.510
928.9	10775.100	10776.690	10778.280	10779.870	10781.460	10783.050	10784.640	10786.230	10787.820	10789.410
929.0	10791.000	10792.520	10794.040	10795.560	10797.080	10798.600	10800.120	10801.640	10803.160	10804.680
929.1	10806.200	10807.720	10809.240	10810.760	10812.280	10813.800	10815.320	10816.840	10818.360	10819.880
929.2	10821.400	10822.920	10824.440	10825.960	10827.480	10829.000	10830.520	10832.040	10833.560	10835.080
929.3	10836.600	10838.120	10839.640	10841.160	10842.680	10844.200	10845.720	10847.240	10848.760	10850.280
929.4	10851.800	10853.320	10854.840	10856.360	10857.880	10859.400	10860.920	10862.440	10863.960	10865.480
929.5	10867.000	10868.520	10870.040	10871.560	10873.080	10874.600	10876.120	10877.640	10879.160	10880.680
929.6	10882.200	10883.720	10885.240	10886.760	10888.280	10889.800	10891.320	10892.840	10894.360	10895.880
929.7	10897.400	10898.920	10900.440	10901.960	10903.480	10905.000	10906.520	10908.040	10909.560	10911.080
929.8	10912.600	10914.120	10915.640	10917.160	10918.680	10920.200	10921.720	10923.240	10924.760	10926.280
929.9	10927.800	10929.320	10930.840	10932.360	10933.880	10935.400	10936.920	10938.440	10939.960	10941.480
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
930.0	10943.000	10944.610	10946.220	10947.830	10949.440	10951.050	10952.660	10954.270	10955.880	10957.490
930.1	10959.100	10960.710	10962.320	10963.930	10965.540	10967.150	10968.760	10970.370	10971.980	10973.590
930.2	10975.200	10976.810	10978.420	10980.030	10981.640	10983.250	10984.860	10986.470	10988.080	10989.690
930.3	10991.300	10992.910	10994.520	10996.130	10997.740	10999.350	11000.960	11002.570	11004.180	11005.790
930.4	11007.400	11009.010	11010.620	11012.230	11013.840	11015.450	11017.060	11018.670	11020.280	11021.890
930.5	11023.500	11025.110	11026.720	11028.330	11029.940	11031.550	11033.160	11034.770	11036.380	11037.990
930.6	11039.600	11041.210	11042.820	11044.430	11046.040	11047.650	11049.260	11050.870	11052.480	11054.090
930.7	11055.700	11057.310	11058.920	11060.530	11062.140	11063.750	11065.360	11066.970	11068.580	11070.190
930.8	11071.800	11073.410	11075.020	11076.630	11078.240	11079.850	11081.460	11083.070	11084.680	11086.290
930.9	11087.900	11089.510	11091.120	11092.730	11094.340	11095.950	11097.560	11099.170	11100.780	11102.390
931.0	11104.000	11105.300	11106.600	11107.900	11109.200	11110.500	11111.800	11113.100	11114.400	11115.700
931.1	11117.000	11118.300	11119.600	11120.900	11122.200	11123.500	11124.800	11126.100	11127.400	11128.700
931.2	11130.000	11131.300	11132.600	11133.900	11135.200	11136.500	11137.800	11139.100	11140.400	11141.700
931.3	11143.000	11144.300	11145.600	11146.900	11148.200	11149.500	11150.800	11152.100	11153.400	11154.700
931.4	11156.000	11157.300	11158.600	11159.900	11161.200	11162.500	11163.800	11165.100	11166.400	11167.700
931.5	11169.000	11170.300	11171.600	11172.900	11174.200	11175.500	11176.800	11178.100	11179.400	11180.700
931.6	11182.000	11183.300	11184.600	11185.900	11187.200	11188.500	11189.800	11191.100	11192.400	11193.700
931.7	11195.000	11196.300	11197.600	11198.900	11200.200	11201.500	11202.800	11204.100	11205.400	11206.700
931.8	11208.000	11209.300	11210.600	11211.900	11213.200	11214.500	11215.800	11217.100	11218.400	11219.700
931.9	11221.000	11222.300	11223.600	11224.900	11226.200	11227.500	11228.800	11230.100	11231.400	11232.700
932.0	11234.000	11235.760	11237.520	11239.280	11241.040	11242.800	11244.560	11246.320	11248.080	11249.840
932.1	11251.600	11253.360	11255.120	11256.880	11258.640	11260.400	11262.160	11263.920	11265.680	11267.440
932.2	11269.200	11270.960	11272.720	11274.480	11276.240	11278.000	11279.760	11281.520	11283.280	11285.040
932.3	11286.800	11288.560	11290.320	11292.080	11293.840	11295.600	11297.360	11299.120	11300.880	11302.640
932.4	11304.400	11306.160	11307.920	11309.680	11311.440	11313.200	11314.960	11316.720	11318.480	11320.240
932.5	11322.000	11323.760	11325.520	11327.280	11329.040	11330.800	11332.560	11334.320	11336.080	11337.840
932.6	11339.600	11341.360	11343.120	11344.880	11346.640	11348.400	11350.160	11351.920	11353.680	11355.440
932.7	11357.200	11358.960	11360.720	11362.480	11364.240	11366.000	11367.760	11369.520	11371.280	11373.040
932.8	11374.800	11376.560	11378.320	11380.080	11381.840	11383.600	11385.360	11387.120	11388.880	11390.640
932.9	11392.400	11394.160	11395.920	11397.680	11399.440	11401.200	11402.960	11404.720	11406.480	11408.240
933.0	11410.000	11411.480	11412.960	11414.440	11415.920	11417.400	11418.880	11420.360	11421.840	11423.320
933.1	11424.800	11426.280	11427.760	11429.240	11430.720	11432.200	11433.680	11435.160	11436.640	11438.120
933.2	11439.600	11441.080	11442.560	11444.040	11445.520	11447.000	11448.480	11449.960	11451.440	11452.920
933.3	11454.400	11455.880	11457.360	11458.840	11460.320	11461.800	11463.280	11464.760	11466.240	11467.720
933.4	11469.200	11470.680	11472.160	11473.640	11475.120	11476.600	11478.080	11479.560	11481.040	11482.520
933.5	11484.000	11485.480	11486.960	11488.440	11489.920	11491.400	11492.880	11494.360	11495.840	11497.320
933.6	11498.800	11500.280	11501.760	11503.240	11504.720	11506.200	11507.680	11509.160	11510.640	11512.120
933.7	11513.600	11515.080	11516.560	11518.040	11519.520	11521.000	11522.480	11523.960	11525.440	11526.920
933.8	11528.400	11529.880	11531.360	11532.840	11534.320	11535.800	11537.280	11538.760	11540.240	11541.720
933.9	11543.200	11544.680	11546.160	11547.640	11549.120	11550.600	11552.080	11553.560	11555.040	11556.520
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
934.0	11558.000	11559.520	11561.040	11562.560	11564.080	11565.600	11567.120	11568.640	11570.160	11571.680
934.1	11573.200	11574.720	11576.240	11577.760	11579.280	11580.800	11582.320	11583.840	11585.360	11586.880
934.2	11588.400	11589.920	11591.440	11592.960	11594.480	11596.000	11597.520	11599.040	11600.560	11602.080
934.3	11603.600	11605.120	11606.640	11608.160	11609.680	11611.200	11612.720	11614.240	11615.760	11617.280
934.4	11618.800	11620.320	11621.840	11623.360	11624.880	11626.400	11627.920	11629.440	11630.960	11632.480
934.5	11634.000	11635.520	11637.040	11638.560	11640.080	11641.600	11643.120	11644.640	11646.160	11647.680
934.6	11649.200	11650.720	11652.240	11653.760	11655.280	11656.800	11658.320	11659.840	11661.360	11662.880
934.7	11664.400	11665.920	11667.440	11668.960	11670.480	11672.000	11673.520	11675.040	11676.560	11678.080
934.8	11679.600	11681.120	11682.640	11684.160	11685.680	11687.200	11688.720	11690.240	11691.760	11693.280
934.9	11694.800	11696.320	11697.840	11699.360	11700.880	11702.400	11703.920	11705.440	11706.960	11708.480
935.0	11710.000	11711.440	11712.880	11714.320	11715.760	11717.200	11718.640	11720.080	11721.520	11722.960
935.1	11724.400	11725.840	11727.280	11728.720	11730.160	11731.600	11733.040	11734.480	11735.920	11737.360
935.2	11738.800	11740.240	11741.680	11743.120	11744.560	11746.000	11747.440	11748.880	11750.320	11751.760
935.3	11753.200	11754.640	11756.080	11757.520	11758.960	11760.400	11761.840	11763.280	11764.720	11766.160
935.4	11767.600	11769.040	11770.480	11771.920	11773.360	11774.800	11776.240	11777.680	11779.120	11780.560
935.5	11782.000	11783.440	11784.880	11786.320	11787.760	11789.200	11790.640	11792.080	11793.520	11794.960
935.6	11796.400	11797.840	11799.280	11800.720	11802.160	11803.600	11805.040	11806.480	11807.920	11809.360
935.7	11810.800	11812.240	11813.680	11815.120	11816.560	11818.000	11819.440	11820.880	11822.320	11823.760
935.8	11825.200	11826.640	11828.080	11829.520	11830.960	11832.400	11833.840	11835.280	11836.720	11838.160
935.9	11839.600	11841.040	11842.480	11843.920	11845.360	11846.800	11848.240	11849.680	11851.120	11852.560
936.0	11854.000	11855.620	11857.240	11858.860	11860.480	11862.100	11863.720	11865.340	11866.960	11868.580
936.1	11870.200	11871.820	11873.440	11875.060	11876.680	11878.300	11879.920	11881.540	11883.160	11884.780
936.2	11886.400	11888.020	11889.640	11891.260	11892.880	11894.500	11896.120	11897.740	11899.360	11900.980
936.3	11902.600	11904.220	11905.840	11907.460	11909.080	11910.700	11912.320	11913.940	11915.560	11917.180
936.4	11918.800	11920.420	11922.040	11923.660	11925.280	11926.900	11928.520	11930.140	11931.760	11933.380
936.5	11935.000	11936.620	11938.240	11939.860	11941.480	11943.100	11944.720	11946.340	11947.960	11949.580
936.6	11951.200	11952.820	11954.440	11956.060	11957.680	11959.300	11960.920	11962.540	11964.160	11965.780
936.7	11967.400	11969.020	11970.640	11972.260	11973.880	11975.500	11977.120	11978.740	11980.360	11981.980
936.8	11983.600	11985.220	11986.840	11988.460	11990.080	11991.700	11993.320	11994.940	11996.560	11998.180
936.9	11999.800	12001.420	12003.040	12004.660	12006.280	12007.900	12009.520	12011.140	12012.760	12014.380
937.0	12016.000	12017.410	12018.820	12020.230	12021.640	12023.050	12024.460	12025.870	12027.280	12028.690
937.1	12030.100	12031.510	12032.920	12034.330	12035.740	12037.150	12038.560	12039.970	12041.380	12042.790
937.2	12044.200	12045.610	12047.020	12048.430	12049.840	12051.250	12052.660	12054.070	12055.480	12056.890
937.3	12058.300	12059.710	12061.120	12062.530	12063.940	12065.350	12066.760	12068.170	12069.580	12070.990
937.4	12072.400	12073.810	12075.220	12076.630	12078.040	12079.450	12080.860	12082.270	12083.680	12085.090
937.5	12086.500	12087.910	12089.320	12090.730	12092.140	12093.550	12094.960	12096.370	12097.780	12099.190
937.6	12100.600	12102.010	12103.420	12104.830	12106.240	12107.650	12109.060	12110.470	12111.880	12113.290
937.7	12114.700	12116.110	12117.520	12118.930	12120.340	12121.750	12123.160	12124.570	12125.980	12127.390
937.8	12128.800	12130.210	12131.620	12133.030	12134.440	12135.850	12137.260	12138.670	12140.080	12141.490
937.9	12142.900	12144.310	12145.720	12147.130	12148.540	12149.950	12151.360	12152.770	12154.180	12155.590
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
938.0	12157.000	12158.390	12159.780	12161.170	12162.560	12163.950	12165.340	12166.730	12168.120	12169.510
938.1	12170.900	12172.290	12173.680	12175.070	12176.460	12177.850	12179.240	12180.630	12182.020	12183.410
938.2	12184.800	12186.190	12187.580	12188.970	12190.360	12191.750	12193.140	12194.530	12195.920	12197.310
938.3	12198.700	12200.090	12201.480	12202.870	12204.260	12205.650	12207.040	12208.430	12209.820	12211.210
938.4	12212.600	12213.990	12215.380	12216.770	12218.160	12219.550	12220.940	12222.330	12223.720	12225.110
938.5	12226.500	12227.890	12229.280	12230.670	12232.060	12233.450	12234.840	12236.230	12237.620	12239.010
938.6	12240.400	12241.790	12243.180	12244.570	12245.960	12247.350	12248.740	12250.130	12251.520	12252.910
938.7	12254.300	12255.690	12257.080	12258.470	12259.860	12261.250	12262.640	12264.030	12265.420	12266.810
938.8	12268.200	12269.590	12270.980	12272.370	12273.760	12275.150	12276.540	12277.930	12279.320	12280.710
938.9	12282.100	12283.490	12284.880	12286.270	12287.660	12289.050	12290.440	12291.830	12293.220	12294.610
939.0	12296.000	12297.550	12299.100	12300.650	12302.200	12303.750	12305.300	12306.850	12308.400	12309.950
939.1	12311.500	12313.050	12314.600	12316.150	12317.700	12319.250	12320.800	12322.350	12323.900	12325.450
939.2	12327.000	12328.550	12330.100	12331.650	12333.200	12334.750	12336.300	12337.850	12339.400	12340.950
939.3	12342.500	12344.050	12345.600	12347.150	12348.700	12350.250	12351.800	12353.350	12354.900	12356.450
939.4	12358.000	12359.550	12361.100	12362.650	12364.200	12365.750	12367.300	12368.850	12370.400	12371.950
939.5	12373.500	12375.050	12376.600	12378.150	12379.700	12381.250	12382.800	12384.350	12385.900	12387.450
939.6	12389.000	12390.550	12392.100	12393.650	12395.200	12396.750	12398.300	12399.850	12401.400	12402.950
939.7	12404.500	12406.050	12407.600	12409.150	12410.700	12412.250	12413.800	12415.350	12416.900	12418.450
939.8	12420.000	12421.550	12423.100	12424.650	12426.200	12427.750	12429.300	12430.850	12432.400	12433.950
939.9	12435.500	12437.050	12438.600	12440.150	12441.700	12443.250	12444.800	12446.350	12447.900	12449.450
940.0	12451.000	12452.370	12453.740	12455.110	12456.480	12457.850	12459.220	12460.590	12461.960	12463.330
940.1	12464.700	12466.070	12467.440	12468.810	12470.180	12471.550	12472.920	12474.290	12475.660	12477.030
940.2	12478.400	12479.770	12481.140	12482.510	12483.880	12485.250	12486.620	12487.990	12489.360	12490.730
940.3	12492.100	12493.470	12494.840	12496.210	12497.580	12498.950	12500.320	12501.690	12503.060	12504.430
940.4	12505.800	12507.170	12508.540	12509.910	12511.280	12512.650	12514.020	12515.390	12516.760	12518.130
940.5	12519.500	12520.870	12522.240	12523.610	12524.980	12526.350	12527.720	12529.090	12530.460	12531.830
940.6	12533.200	12534.570	12535.940	12537.310	12538.680	12540.050	12541.420	12542.790	12544.160	12545.530
940.7	12546.900	12548.270	12549.640	12551.010	12552.380	12553.750	12555.120	12556.490	12557.860	12559.230
940.8	12560.600	12561.970	12563.340	12564.710	12566.080	12567.450	12568.820	12570.190	12571.560	12572.930
940.9	12574.300	12575.670	12577.040	12578.410	12579.780	12581.150	12582.520	12583.890	12585.260	12586.630
941.0	12588.000	12589.390	12590.780	12592.170	12593.560	12594.950	12596.340	12597.730	12599.120	12600.510
941.1	12601.900	12603.290	12604.680	12606.070	12607.460	12608.850	12610.240	12611.630	12613.020	12614.410
941.2	12615.800	12617.190	12618.580	12619.970	12621.360	12622.750	12624.140	12625.530	12626.920	12628.310
941.3	12629.700	12631.090	12632.480	12633.870	12635.260	12636.650	12638.040	12639.430	12640.820	12642.210
941.4	12643.600	12644.990	12646.380	12647.770	12649.160	12650.550	12651.940	12653.330	12654.720	12656.110
941.5	12657.500	12658.890	12660.280	12661.670	12663.060	12664.450	12665.840	12667.230	12668.620	12670.010
941.6	12671.400	12672.790	12674.180	12675.570	12676.960	12678.350	12679.740	12681.130	12682.520	12683.910
941.7	12685.300	12686.690	12688.080	12689.470	12690.860	12692.250	12693.640	12695.030	12696.420	12697.810
941.8	12699.200	12700.590	12701.980	12703.370	12704.760	12706.150	12707.540	12708.930	12710.320	12711.710
941.9	12713.100	12714.490	12715.880	12717.270	12718.660	12720.050	12721.440	12722.830	12724.220	12725.610
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
942.0	12727.000	12728.480	12729.960	12731.440	12732.920	12734.400	12735.880	12737.360	12738.840	12740.320
942.1	12741.800	12743.280	12744.760	12746.240	12747.720	12749.200	12750.680	12752.160	12753.640	12755.120
942.2	12756.600	12758.080	12759.560	12761.040	12762.520	12764.000	12765.480	12766.960	12768.440	12769.920
942.3	12771.400	12772.880	12774.360	12775.840	12777.320	12778.800	12780.280	12781.760	12783.240	12784.720
942.4	12786.200	12787.680	12789.160	12790.640	12792.120	12793.600	12795.080	12796.560	12798.040	12799.520
942.5	12801.000	12802.480	12803.960	12805.440	12806.920	12808.400	12809.880	12811.360	12812.840	12814.320
942.6	12815.800	12817.280	12818.760	12820.240	12821.720	12823.200	12824.680	12826.160	12827.640	12829.120
942.7	12830.600	12832.080	12833.560	12835.040	12836.520	12838.000	12839.480	12840.960	12842.440	12843.920
942.8	12845.400	12846.880	12848.360	12849.840	12851.320	12852.800	12854.280	12855.760	12857.240	12858.720
942.9	12860.200	12861.680	12863.160	12864.640	12866.120	12867.600	12869.080	12870.560	12872.040	12873.520
943.0	12875.000	12876.350	12877.700	12879.050	12880.400	12881.750	12883.100	12884.450	12885.800	12887.150
943.1	12888.500	12889.850	12891.200	12892.550	12893.900	12895.250	12896.600	12897.950	12899.300	12900.650
943.2	12902.000	12903.350	12904.700	12906.050	12907.400	12908.750	12910.100	12911.450	12912.800	12914.150
943.3	12915.500	12916.850	12918.200	12919.550	12920.900	12922.250	12923.600	12924.950	12926.300	12927.650
943.4	12929.000	12930.350	12931.700	12933.050	12934.400	12935.750	12937.100	12938.450	12939.800	12941.150
943.5	12942.500	12943.850	12945.200	12946.550	12947.900	12949.250	12950.600	12951.950	12953.300	12954.650
943.6	12956.000	12957.350	12958.700	12960.050	12961.400	12962.750	12964.100	12965.450	12966.800	12968.150
943.7	12969.500	12970.850	12972.200	12973.550	12974.900	12976.250	12977.600	12978.950	12980.300	12981.650
943.8	12983.000	12984.350	12985.700	12987.050	12988.400	12989.750	12991.100	12992.450	12993.800	12995.150
943.9	12996.500	12997.850	12999.200	13000.550	13001.900	13003.250	13004.600	13005.950	13007.300	13008.650
944.0	13010.000	13011.800	13013.600	13015.400	13017.200	13019.000	13020.800	13022.600	13024.400	13026.200
944.1	13028.000	13029.800	13031.600	13033.400	13035.200	13037.000	13038.800	13040.600	13042.400	13044.200
944.2	13046.000	13047.800	13049.600	13051.400	13053.200	13055.000	13056.800	13058.600	13060.400	13062.200
944.3	13064.000	13065.800	13067.600	13069.400	13071.200	13073.000	13074.800	13076.600	13078.400	13080.200
944.4	13082.000	13083.800	13085.600	13087.400	13089.200	13091.000	13092.800	13094.600	13096.400	13098.200
944.5	13100.000	13101.800	13103.600	13105.400	13107.200	13109.000	13110.800	13112.600	13114.400	13116.200
944.6	13118.000	13119.800	13121.600	13123.400	13125.200	13127.000	13128.800	13130.600	13132.400	13134.200
944.7	13136.000	13137.800	13139.600	13141.400	13143.200	13145.000	13146.800	13148.600	13150.400	13152.200
944.8	13154.000	13155.800	13157.600	13159.400	13161.200	13163.000	13164.800	13166.600	13168.400	13170.200
944.9	13172.000	13173.800	13175.600	13177.400	13179.200	13181.000	13182.800	13184.600	13186.400	13188.200
945.0	13190.000	13191.200	13192.400	13193.600	13194.800	13196.000	13197.200	13198.400	13199.600	13200.800
945.1	13202.000	13203.200	13204.400	13205.600	13206.800	13208.000	13209.200	13210.400	13211.600	13212.800
945.2	13214.000	13215.200	13216.400	13217.600	13218.800	13220.000	13221.200	13222.400	13223.600	13224.800
945.3	13226.000	13227.200	13228.400	13229.600	13230.800	13232.000	13233.200	13234.400	13235.600	13236.800
945.4	13238.000	13239.200	13240.400	13241.600	13242.800	13244.000	13245.200	13246.400	13247.600	13248.800
945.5	13250.000	13251.200	13252.400	13253.600	13254.800	13256.000	13257.200	13258.400	13259.600	13260.800
945.6	13262.000	13263.200	13264.400	13265.600	13266.800	13268.000	13269.200	13270.400	13271.600	13272.800
945.7	13274.000	13275.200	13276.400	13277.600	13278.800	13280.000	13281.200	13282.400	13283.600	13284.800
945.8	13286.000	13287.200	13288.400	13289.600	13290.800	13292.000	13293.200	13294.400	13295.600	13296.800
945.9	13298.000	13299.200	13300.400	13301.600	13302.800	13304.000	13305.200	13306.400	13307.600	13308.800
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
946.0	13310.000	13311.600	13313.200	13314.800	13316.400	13318.000	13319.600	13321.200	13322.800	13324.400
946.1	13326.000	13327.600	13329.200	13330.800	13332.400	13334.000	13335.600	13337.200	13338.800	13340.400
946.2	13342.000	13343.600	13345.200	13346.800	13348.400	13350.000	13351.600	13353.200	13354.800	13356.400
946.3	13358.000	13359.600	13361.200	13362.800	13364.400	13366.000	13367.600	13369.200	13370.800	13372.400
946.4	13374.000	13375.600	13377.200	13378.800	13380.400	13382.000	13383.600	13385.200	13386.800	13388.400
946.5	13390.000	13391.600	13393.200	13394.800	13396.400	13398.000	13399.600	13401.200	13402.800	13404.400
946.6	13406.000	13407.600	13409.200	13410.800	13412.400	13414.000	13415.600	13417.200	13418.800	13420.400
946.7	13422.000	13423.600	13425.200	13426.800	13428.400	13430.000	13431.600	13433.200	13434.800	13436.400
946.8	13438.000	13439.600	13441.200	13442.800	13444.400	13446.000	13447.600	13449.200	13450.800	13452.400
946.9	13454.000	13455.600	13457.200	13458.800	13460.400	13462.000	13463.600	13465.200	13466.800	13468.400
947.0	13470.000	13471.300	13472.600	13473.900	13475.200	13476.500	13477.800	13479.100	13480.400	13481.700
947.1	13483.000	13484.300	13485.600	13486.900	13488.200	13489.500	13490.800	13492.100	13493.400	13494.700
947.2	13496.000	13497.300	13498.600	13499.900	13501.200	13502.500	13503.800	13505.100	13506.400	13507.700
947.3	13509.000	13510.300	13511.600	13512.900	13514.200	13515.500	13516.800	13518.100	13519.400	13520.700
947.4	13522.000	13523.300	13524.600	13525.900	13527.200	13528.500	13529.800	13531.100	13532.400	13533.700
947.5	13535.000	13536.300	13537.600	13538.900	13540.200	13541.500	13542.800	13544.100	13545.400	13546.700
947.6	13548.000	13549.300	13550.600	13551.900	13553.200	13554.500	13555.800	13557.100	13558.400	13559.700
947.7	13561.000	13562.300	13563.600	13564.900	13566.200	13567.500	13568.800	13570.100	13571.400	13572.700
947.8	13574.000	13575.300	13576.600	13577.900	13579.200	13580.500	13581.800	13583.100	13584.400	13585.700
947.9	13587.000	13588.300	13589.600	13590.900	13592.200	13593.500	13594.800	13596.100	13597.400	13598.700
948.0	13600.000	13601.300	13602.600	13603.900	13605.200	13606.500	13607.800	13609.100	13610.400	13611.700
948.1	13613.000	13614.300	13615.600	13616.900	13618.200	13619.500	13620.800	13622.100	13623.400	13624.700
948.2	13626.000	13627.300	13628.600	13629.900	13631.200	13632.500	13633.800	13635.100	13636.400	13637.700
948.3	13639.000	13640.300	13641.600	13642.900	13644.200	13645.500	13646.800	13648.100	13649.400	13650.700
948.4	13652.000	13653.300	13654.600	13655.900	13657.200	13658.500	13659.800	13661.100	13662.400	13663.700
948.5	13665.000	13666.300	13667.600	13668.900	13670.200	13671.500	13672.800	13674.100	13675.400	13676.700
948.6	13678.000	13679.300	13680.600	13681.900	13683.200	13684.500	13685.800	13687.100	13688.400	13689.700
948.7	13691.000	13692.300	13693.600	13694.900	13696.200	13697.500	13698.800	13700.100	13701.400	13702.700
948.8	13704.000	13705.300	13706.600	13707.900	13709.200	13710.500	13711.800	13713.100	13714.400	13715.700
948.9	13717.000	13718.300	13719.600	13720.900	13722.200	13723.500	13724.800	13726.100	13727.400	13728.700
949.0	13730.000	13731.600	13733.200	13734.800	13736.400	13738.000	13739.600	13741.200	13742.800	13744.400
949.1	13746.000	13747.600	13749.200	13750.800	13752.400	13754.000	13755.600	13757.200	13758.800	13760.400
949.2	13762.000	13763.600	13765.200	13766.800	13768.400	13770.000	13771.600	13773.200	13774.800	13776.400
949.3	13778.000	13779.600	13781.200	13782.800	13784.400	13786.000	13787.600	13789.200	13790.800	13792.400
949.4	13794.000	13795.600	13797.200	13798.800	13800.400	13802.000	13803.600	13805.200	13806.800	13808.400
949.5	13810.000	13811.600	13813.200	13814.800	13816.400	13818.000	13819.600	13821.200	13822.800	13824.400
949.6	13826.000	13827.600	13829.200	13830.800	13832.400	13834.000	13835.600	13837.200	13838.800	13840.400
949.7	13842.000	13843.600	13845.200	13846.800	13848.400	13850.000	13851.600	13853.200	13854.800	13856.400
949.8	13858.000	13859.600	13861.200	13862.800	13864.400	13866.000	13867.600	13869.200	13870.800	13872.400
949.9	13874.000	13875.600	13877.200	13878.800	13880.400	13882.000	13883.600	13885.200	13886.800	13888.400
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
950.0	13890.000	13891.600	13893.200	13894.800	13896.400	13898.000	13899.600	13901.200	13902.800	13904.400
950.1	13906.000	13907.600	13909.200	13910.800	13912.400	13914.000	13915.600	13917.200	13918.800	13920.400
950.2	13922.000	13923.600	13925.200	13926.800	13928.400	13930.000	13931.600	13933.200	13934.800	13936.400
950.3	13938.000	13939.600	13941.200	13942.800	13944.400	13946.000	13947.600	13949.200	13950.800	13952.400
950.4	13954.000	13955.600	13957.200	13958.800	13960.400	13962.000	13963.600	13965.200	13966.800	13968.400
950.5	13970.000	13971.600	13973.200	13974.800	13976.400	13978.000	13979.600	13981.200	13982.800	13984.400
950.6	13986.000	13987.600	13989.200	13990.800	13992.400	13994.000	13995.600	13997.200	13998.800	14000.400
950.7	14002.000	14003.600	14005.200	14006.800	14008.400	14010.000	14011.600	14013.200	14014.800	14016.400
950.8	14018.000	14019.600	14021.200	14022.800	14024.400	14026.000	14027.600	14029.200	14030.800	14032.400
950.9	14034.000	14035.600	14037.200	14038.800	14040.400	14042.000	14043.600	14045.200	14046.800	14048.400
951.0	14050.000	14051.600	14053.200	14054.800	14056.400	14058.000	14059.600	14061.200	14062.800	14064.400
951.1	14066.000	14067.600	14069.200	14070.800	14072.400	14074.000	14075.600	14077.200	14078.800	14080.400
951.2	14082.000	14083.600	14085.200	14086.800	14088.400	14090.000	14091.600	14093.200	14094.800	14096.400
951.3	14098.000	14099.600	14101.200	14102.800	14104.400	14106.000	14107.600	14109.200	14110.800	14112.400
951.4	14114.000	14115.600	14117.200	14118.800	14120.400	14122.000	14123.600	14125.200	14126.800	14128.400
951.5	14130.000	14131.600	14133.200	14134.800	14136.400	14138.000	14139.600	14141.200	14142.800	14144.400
951.6	14146.000	14147.600	14149.200	14150.800	14152.400	14154.000	14155.600	14157.200	14158.800	14160.400
951.7	14162.000	14163.600	14165.200	14166.800	14168.400	14170.000	14171.600	14173.200	14174.800	14176.400
951.8	14178.000	14179.600	14181.200	14182.800	14184.400	14186.000	14187.600	14189.200	14190.800	14192.400
951.9	14194.000	14195.600	14197.200	14198.800	14200.400	14202.000	14203.600	14205.200	14206.800	14208.400
952.0	14210.000	14211.600	14213.200	14214.800	14216.400	14218.000	14219.600	14221.200	14222.800	14224.400
952.1	14226.000	14227.600	14229.200	14230.800	14232.400	14234.000	14235.600	14237.200	14238.800	14240.400
952.2	14242.000	14243.600	14245.200	14246.800	14248.400	14250.000	14251.600	14253.200	14254.800	14256.400
952.3	14258.000	14259.600	14261.200	14262.800	14264.400	14266.000	14267.600	14269.200	14270.800	14272.400
952.4	14274.000	14275.600	14277.200	14278.800	14280.400	14282.000	14283.600	14285.200	14286.800	14288.400
952.5	14290.000	14291.600	14293.200	14294.800	14296.400	14298.000	14299.600	14301.200	14302.800	14304.400
952.6	14306.000	14307.600	14309.200	14310.800	14312.400	14314.000	14315.600	14317.200	14318.800	14320.400
952.7	14322.000	14323.600	14325.200	14326.800	14328.400	14330.000	14331.600	14333.200	14334.800	14336.400
952.8	14338.000	14339.600	14341.200	14342.800	14344.400	14346.000	14347.600	14349.200	14350.800	14352.400
952.9	14354.000	14355.600	14357.200	14358.800	14360.400	14362.000	14363.600	14365.200	14366.800	14368.400
953.0	14370.000	14371.600	14373.200	14374.800	14376.400	14378.000	14379.600	14381.200	14382.800	14384.400
953.1	14386.000	14387.600	14389.200	14390.800	14392.400	14394.000	14395.600	14397.200	14398.800	14400.400
953.2	14402.000	14403.600	14405.200	14406.800	14408.400	14410.000	14411.600	14413.200	14414.800	14416.400
953.3	14418.000	14419.600	14421.200	14422.800	14424.400	14426.000	14427.600	14429.200	14430.800	14432.400
953.4	14434.000	14435.600	14437.200	14438.800	14440.400	14442.000	14443.600	14445.200	14446.800	14448.400
953.5	14450.000	14451.600	14453.200	14454.800	14456.400	14458.000	14459.600	14461.200	14462.800	14464.400
953.6	14466.000	14467.600	14469.200	14470.800	14472.400	14474.000	14475.600	14477.200	14478.800	14480.400
953.7	14482.000	14483.600	14485.200	14486.800	14488.400	14490.000	14491.600	14493.200	14494.800	14496.400
953.8	14498.000	14499.600	14501.200	14502.800	14504.400	14506.000	14507.600	14509.200	14510.800	14512.400
953.9	14514.000	14515.600	14517.200	14518.800	14520.400	14522.000	14523.600	14525.200	14526.800	14528.400
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
954.0	14530.000	14531.600	14533.200	14534.800	14536.400	14538.000	14539.600	14541.200	14542.800	14544.400
954.1	14546.000	14547.600	14549.200	14550.800	14552.400	14554.000	14555.600	14557.200	14558.800	14560.400
954.2	14562.000	14563.600	14565.200	14566.800	14568.400	14570.000	14571.600	14573.200	14574.800	14576.400
954.3	14578.000	14579.600	14581.200	14582.800	14584.400	14586.000	14587.600	14589.200	14590.800	14592.400
954.4	14594.000	14595.600	14597.200	14598.800	14600.400	14602.000	14603.600	14605.200	14606.800	14608.400
954.5	14610.000	14611.600	14613.200	14614.800	14616.400	14618.000	14619.600	14621.200	14622.800	14624.400
954.6	14626.000	14627.600	14629.200	14630.800	14632.400	14634.000	14635.600	14637.200	14638.800	14640.400
954.7	14642.000	14643.600	14645.200	14646.800	14648.400	14650.000	14651.600	14653.200	14654.800	14656.400
954.8	14658.000	14659.600	14661.200	14662.800	14664.400	14666.000	14667.600	14669.200	14670.800	14672.400
954.9	14674.000	14675.600	14677.200	14678.800	14680.400	14682.000	14683.600	14685.200	14686.800	14688.400
955.0	14690.000	14691.100	14692.200	14693.300	14694.400	14695.500	14696.600	14697.700	14698.800	14699.900
955.1	14701.000	14702.100	14703.200	14704.300	14705.400	14706.500	14707.600	14708.700	14709.800	14710.900
955.2	14712.000	14713.100	14714.200	14715.300	14716.400	14717.500	14718.600	14719.700	14720.800	14721.900
955.3	14723.000	14724.100	14725.200	14726.300	14727.400	14728.500	14729.600	14730.700	14731.800	14732.900
955.4	14734.000	14735.100	14736.200	14737.300	14738.400	14739.500	14740.600	14741.700	14742.800	14743.900
955.5	14745.000	14746.100	14747.200	14748.300	14749.400	14750.500	14751.600	14752.700	14753.800	14754.900
955.6	14756.000	14757.100	14758.200	14759.300	14760.400	14761.500	14762.600	14763.700	14764.800	14765.900
955.7	14767.000	14768.100	14769.200	14770.300	14771.400	14772.500	14773.600	14774.700	14775.800	14776.900
955.8	14778.000	14779.100	14780.200	14781.300	14782.400	14783.500	14784.600	14785.700	14786.800	14787.900
955.9	14789.000	14790.100	14791.200	14792.300	14793.400	14794.500	14795.600	14796.700	14797.800	14798.900
956.0	14800.000	14801.500	14803.000	14804.500	14806.000	14807.500	14809.000	14810.500	14812.000	14813.500
956.1	14815.000	14816.500	14818.000	14819.500	14821.000	14822.500	14824.000	14825.500	14827.000	14828.500
956.2	14830.000	14831.500	14833.000	14834.500	14836.000	14837.500	14839.000	14840.500	14842.000	14843.500
956.3	14845.000	14846.500	14848.000	14849.500	14851.000	14852.500	14854.000	14855.500	14857.000	14858.500
956.4	14860.000	14861.500	14863.000	14864.500	14866.000	14867.500	14869.000	14870.500	14872.000	14873.500
956.5	14875.000	14876.500	14878.000	14879.500	14881.000	14882.500	14884.000	14885.500	14887.000	14888.500
956.6	14890.000	14891.500	14893.000	14894.500	14896.000	14897.500	14899.000	14900.500	14902.000	14903.500
956.7	14905.000	14906.500	14908.000	14909.500	14911.000	14912.500	14914.000	14915.500	14917.000	14918.500
956.8	14920.000	14921.500	14923.000	14924.500	14926.000	14927.500	14929.000	14930.500	14932.000	14933.500
956.9	14935.000	14936.500	14938.000	14939.500	14941.000	14942.500	14944.000	14945.500	14947.000	14948.500
957.0	14950.000	14951.700	14953.400	14955.100	14956.800	14958.500	14960.200	14961.900	14963.600	14965.300
957.1	14967.000	14968.700	14970.400	14972.100	14973.800	14975.500	14977.200	14978.900	14980.600	14982.300
957.2	14984.000	14985.700	14987.400	14989.100	14990.800	14992.500	14994.200	14995.900	14997.600	14999.300
957.3	15001.000	15002.700	15004.400	15006.100	15007.800	15009.500	15011.200	15012.900	15014.600	15016.300
957.4	15018.000	15019.700	15021.400	15023.100	15024.800	15026.500	15028.200	15029.900	15031.600	15033.300
957.5	15035.000	15036.700	15038.400	15040.100	15041.800	15043.500	15045.200	15046.900	15048.600	15050.300
957.6	15052.000	15053.700	15055.400	15057.100	15058.800	15060.500	15062.200	15063.900	15065.600	15067.300
957.7	15069.000	15070.700	15072.400	15074.100	15075.800	15077.500	15079.200	15080.900	15082.600	15084.300
957.8	15086.000	15087.700	15089.400	15091.100	15092.800	15094.500	15096.200	15097.900	15099.600	15101.300
957.9	15103.000	15104.700	15106.400	15108.100	15109.800	15111.500	15113.200	15114.900	15116.600	15118.300
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
958.0	15120.000	15121.800	15123.600	15125.400	15127.200	15129.000	15130.800	15132.600	15134.400	15136.200
958.1	15138.000	15139.800	15141.600	15143.400	15145.200	15147.000	15148.800	15150.600	15152.400	15154.200
958.2	15156.000	15157.800	15159.600	15161.400	15163.200	15165.000	15166.800	15168.600	15170.400	15172.200
958.3	15174.000	15175.800	15177.600	15179.400	15181.200	15183.000	15184.800	15186.600	15188.400	15190.200
958.4	15192.000	15193.800	15195.600	15197.400	15199.200	15201.000	15202.800	15204.600	15206.400	15208.200
958.5	15210.000	15211.800	15213.600	15215.400	15217.200	15219.000	15220.800	15222.600	15224.400	15226.200
958.6	15228.000	15229.800	15231.600	15233.400	15235.200	15237.000	15238.800	15240.600	15242.400	15244.200
958.7	15246.000	15247.800	15249.600	15251.400	15253.200	15255.000	15256.800	15258.600	15260.400	15262.200
958.8	15264.000	15265.800	15267.600	15269.400	15271.200	15273.000	15274.800	15276.600	15278.400	15280.200
958.9	15282.000	15283.800	15285.600	15287.400	15289.200	15291.000	15292.800	15294.600	15296.400	15298.200
959.0	15300.000	15301.800	15303.600	15305.400	15307.200	15309.000	15310.800	15312.600	15314.400	15316.200
959.1	15318.000	15319.800	15321.600	15323.400	15325.200	15327.000	15328.800	15330.600	15332.400	15334.200
959.2	15336.000	15337.800	15339.600	15341.400	15343.200	15345.000	15346.800	15348.600	15350.400	15352.200
959.3	15354.000	15355.800	15357.600	15359.400	15361.200	15363.000	15364.800	15366.600	15368.400	15370.200
959.4	15372.000	15373.800	15375.600	15377.400	15379.200	15381.000	15382.800	15384.600	15386.400	15388.200
959.5	15390.000	15391.800	15393.600	15395.400	15397.200	15399.000	15400.800	15402.600	15404.400	15406.200
959.6	15408.000	15409.800	15411.600	15413.400	15415.200	15417.000	15418.800	15420.600	15422.400	15424.200
959.7	15426.000	15427.800	15429.600	15431.400	15433.200	15435.000	15436.800	15438.600	15440.400	15442.200
959.8	15444.000	15445.800	15447.600	15449.400	15451.200	15453.000	15454.800	15456.600	15458.400	15460.200
959.9	15462.000	15463.800	15465.600	15467.400	15469.200	15471.000	15472.800	15474.600	15476.400	15478.200
960.0	15480.000	15481.500	15483.000	15484.500	15486.000	15487.500	15489.000	15490.500	15492.000	15493.500
960.1	15495.000	15496.500	15498.000	15499.500	15501.000	15502.500	15504.000	15505.500	15507.000	15508.500
960.2	15510.000	15511.500	15513.000	15514.500	15516.000	15517.500	15519.000	15520.500	15522.000	15523.500
960.3	15525.000	15526.500	15528.000	15529.500	15531.000	15532.500	15534.000	15535.500	15537.000	15538.500
960.4	15540.000	15541.500	15543.000	15544.500	15546.000	15547.500	15549.000	15550.500	15552.000	15553.500
960.5	15555.000	15556.500	15558.000	15559.500	15561.000	15562.500	15564.000	15565.500	15567.000	15568.500
960.6	15570.000	15571.500	15573.000	15574.500	15576.000	15577.500	15579.000	15580.500	15582.000	15583.500
960.7	15585.000	15586.500	15588.000	15589.500	15591.000	15592.500	15594.000	15595.500	15597.000	15598.500
960.8	15600.000	15601.500	15603.000	15604.500	15606.000	15607.500	15609.000	15610.500	15612.000	15613.500
960.9	15615.000	15616.500	15618.000	15619.500	15621.000	15622.500	15624.000	15625.500	15627.000	15628.500
961.0	15630.000	15631.800	15633.600	15635.400	15637.200	15639.000	15640.800	15642.600	15644.400	15646.200
961.1	15648.000	15649.800	15651.600	15653.400	15655.200	15657.000	15658.800	15660.600	15662.400	15664.200
961.2	15666.000	15667.800	15669.600	15671.400	15673.200	15675.000	15676.800	15678.600	15680.400	15682.200
961.3	15684.000	15685.800	15687.600	15689.400	15691.200	15693.000	15694.800	15696.600	15698.400	15700.200
961.4	15702.000	15703.800	15705.600	15707.400	15709.200	15711.000	15712.800	15714.600	15716.400	15718.200
961.5	15720.000	15721.800	15723.600	15725.400	15727.200	15729.000	15730.800	15732.600	15734.400	15736.200
961.6	15738.000	15739.800	15741.600	15743.400	15745.200	15747.000	15748.800	15750.600	15752.400	15754.200
961.7	15756.000	15757.800	15759.600	15761.400	15763.200	15765.000	15766.800	15768.600	15770.400	15772.200
961.8	15774.000	15775.800	15777.600	15779.400	15781.200	15783.000	15784.800	15786.600	15788.400	15790.200
961.9	15792.000	15793.800	15795.600	15797.400	15799.200	15801.000	15802.800	15804.600	15806.400	15808.200
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
962.0	15810.000	15811.900	15813.800	15815.700	15817.600	15819.500	15821.400	15823.300	15825.200	15827.100
962.1	15829.000	15830.900	15832.800	15834.700	15836.600	15838.500	15840.400	15842.300	15844.200	15846.100
962.2	15848.000	15849.900	15851.800	15853.700	15855.600	15857.500	15859.400	15861.300	15863.200	15865.100
962.3	15867.000	15868.900	15870.800	15872.700	15874.600	15876.500	15878.400	15880.300	15882.200	15884.100
962.4	15886.000	15887.900	15889.800	15891.700	15893.600	15895.500	15897.400	15899.300	15901.200	15903.100
962.5	15905.000	15906.900	15908.800	15910.700	15912.600	15914.500	15916.400	15918.300	15920.200	15922.100
962.6	15924.000	15925.900	15927.800	15929.700	15931.600	15933.500	15935.400	15937.300	15939.200	15941.100
962.7	15943.000	15944.900	15946.800	15948.700	15950.600	15952.500	15954.400	15956.300	15958.200	15960.100
962.8	15962.000	15963.900	15965.800	15967.700	15969.600	15971.500	15973.400	15975.300	15977.200	15979.100
962.9	15981.000	15982.900	15984.800	15986.700	15988.600	15990.500	15992.400	15994.300	15996.200	15998.100
963.0	16000.000	16001.800	16003.600	16005.400	16007.200	16009.000	16010.800	16012.600	16014.400	16016.200
963.1	16018.000	16019.800	16021.600	16023.400	16025.200	16027.000	16028.800	16030.600	16032.400	16034.200
963.2	16036.000	16037.800	16039.600	16041.400	16043.200	16045.000	16046.800	16048.600	16050.400	16052.200
963.3	16054.000	16055.800	16057.600	16059.400	16061.200	16063.000	16064.800	16066.600	16068.400	16070.200
963.4	16072.000	16073.800	16075.600	16077.400	16079.200	16081.000	16082.800	16084.600	16086.400	16088.200
963.5	16090.000	16091.800	16093.600	16095.400	16097.200	16099.000	16100.800	16102.600	16104.400	16106.200
963.6	16108.000	16109.800	16111.600	16113.400	16115.200	16117.000	16118.800	16120.600	16122.400	16124.200
963.7	16126.000	16127.800	16129.600	16131.400	16133.200	16135.000	16136.800	16138.600	16140.400	16142.200
963.8	16144.000	16145.800	16147.600	16149.400	16151.200	16153.000	16154.800	16156.600	16158.400	16160.200
963.9	16162.000	16163.800	16165.600	16167.400	16169.200	16171.000	16172.800	16174.600	16176.400	16178.200
964.0	16180.000	16181.900	16183.800	16185.700	16187.600	16189.500	16191.400	16193.300	16195.200	16197.100
964.1	16199.000	16200.900	16202.800	16204.700	16206.600	16208.500	16210.400	16212.300	16214.200	16216.100
964.2	16218.000	16219.900	16221.800	16223.700	16225.600	16227.500	16229.400	16231.300	16233.200	16235.100
964.3	16237.000	16238.900	16240.800	16242.700	16244.600	16246.500	16248.400	16250.300	16252.200	16254.100
964.4	16256.000	16257.900	16259.800	16261.700	16263.600	16265.500	16267.400	16269.300	16271.200	16273.100
964.5	16275.000	16276.900	16278.800	16280.700	16282.600	16284.500	16286.400	16288.300	16290.200	16292.100
964.6	16294.000	16295.900	16297.800	16299.700	16301.600	16303.500	16305.400	16307.300	16309.200	16311.100
964.7	16313.000	16314.900	16316.800	16318.700	16320.600	16322.500	16324.400	16326.300	16328.200	16330.100
964.8	16332.000	16333.900	16335.800	16337.700	16339.600	16341.500	16343.400	16345.300	16347.200	16349.100
964.9	16351.000	16352.900	16354.800	16356.700	16358.600	16360.500	16362.400	16364.300	16366.200	16368.100
965.0	16370.000	16371.900	16373.800	16375.700	16377.600	16379.500	16381.400	16383.300	16385.199	16387.100
965.1	16389.000	16390.900	16392.801	16394.699	16396.600	16398.500	16400.400	16402.301	16404.199	16406.100
965.2	16408.000	16409.900	16411.801	16413.699	16415.600	16417.500	16419.400	16421.301	16423.199	16425.100
965.3	16427.000	16428.900	16430.801	16432.699	16434.600	16436.500	16438.400	16440.301	16442.199	16444.100
965.4	16446.000	16447.900	16449.801	16451.699	16453.600	16455.500	16457.400	16459.301	16461.199	16463.100
965.5	16465.000	16466.900	16468.801	16470.699	16472.600	16474.500	16476.400	16478.301	16480.199	16482.100
965.6	16484.000	16485.900	16487.801	16489.699	16491.600	16493.500	16495.400	16497.301	16499.199	16501.100
965.7	16503.000	16504.900	16506.801	16508.699	16510.600	16512.500	16514.400	16516.301	16518.199	16520.100
965.8	16522.000	16523.900	16525.801	16527.699	16529.600	16531.500	16533.400	16535.301	16537.199	16539.100
965.9	16541.000	16542.900	16544.801	16546.699	16548.600	16550.500	16552.400	16554.301	16556.199	16558.100
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
966.0	16560.000	16561.801	16563.600	16565.400	16567.199	16569.000	16570.801	16572.600	16574.400	16576.199
966.1	16578.000	16579.801	16581.600	16583.400	16585.199	16587.000	16588.801	16590.600	16592.400	16594.199
966.2	16596.000	16597.801	16599.600	16601.400	16603.199	16605.000	16606.801	16608.600	16610.400	16612.199
966.3	16614.000	16615.801	16617.600	16619.400	16621.199	16623.000	16624.801	16626.600	16628.400	16630.199
966.4	16632.000	16633.801	16635.600	16637.400	16639.199	16641.000	16642.801	16644.600	16646.400	16648.199
966.5	16650.000	16651.801	16653.600	16655.400	16657.199	16659.000	16660.801	16662.600	16664.400	16666.199
966.6	16668.000	16669.801	16671.600	16673.400	16675.199	16677.000	16678.801	16680.600	16682.400	16684.199
966.7	16686.000	16687.801	16689.600	16691.400	16693.199	16695.000	16696.801	16698.600	16700.400	16702.199
966.8	16704.000	16705.801	16707.600	16709.400	16711.199	16713.000	16714.801	16716.600	16718.400	16720.199
966.9	16722.000	16723.801	16725.600	16727.400	16729.199	16731.000	16732.801	16734.600	16736.400	16738.199
967.0	16740.000	16742.000	16744.000	16746.000	16748.000	16750.000	16752.000	16754.000	16756.000	16758.000
967.1	16760.000	16762.000	16764.000	16766.000	16768.000	16770.000	16772.000	16774.000	16776.000	16778.000
967.2	16780.000	16782.000	16784.000	16786.000	16788.000	16790.000	16792.000	16794.000	16796.000	16798.000
967.3	16800.000	16802.000	16804.000	16806.000	16808.000	16810.000	16812.000	16814.000	16816.000	16818.000
967.4	16820.000	16822.000	16824.000	16826.000	16828.000	16830.000	16832.000	16834.000	16836.000	16838.000
967.5	16840.000	16842.000	16844.000	16846.000	16848.000	16850.000	16852.000	16854.000	16856.000	16858.000
967.6	16860.000	16862.000	16864.000	16866.000	16868.000	16870.000	16872.000	16874.000	16876.000	16878.000
967.7	16880.000	16882.000	16884.000	16886.000	16888.000	16890.000	16892.000	16894.000	16896.000	16898.000
967.8	16900.000	16902.000	16904.000	16906.000	16908.000	16910.000	16912.000	16914.000	16916.000	16918.000
967.9	16920.000	16922.000	16924.000	16926.000	16928.000	16930.000	16932.000	16934.000	16936.000	16938.000
968.0	16940.000	16941.600	16943.199	16944.801	16946.400	16948.000	16949.600	16951.199	16952.801	16954.400
968.1	16956.000	16957.600	16959.199	16960.801	16962.400	16964.000	16965.600	16967.199	16968.801	16970.400
968.2	16972.000	16973.600	16975.199	16976.801	16978.400	16980.000	16981.600	16983.199	16984.801	16986.400
968.3	16988.000	16989.600	16991.199	16992.801	16994.400	16996.000	16997.600	16999.199	17000.801	17002.400
968.4	17004.000	17005.600	17007.199	17008.801	17010.400	17012.000	17013.600	17015.199	17016.801	17018.400
968.5	17020.000	17021.600	17023.199	17024.801	17026.400	17028.000	17029.600	17031.199	17032.801	17034.400
968.6	17036.000	17037.600	17039.199	17040.801	17042.400	17044.000	17045.600	17047.199	17048.801	17050.400
968.7	17052.000	17053.600	17055.199	17056.801	17058.400	17060.000	17061.600	17063.199	17064.801	17066.400
968.8	17068.000	17069.600	17071.199	17072.801	17074.400	17076.000	17077.600	17079.199	17080.801	17082.400
968.9	17084.000	17085.600	17087.199	17088.801	17090.400	17092.000	17093.600	17095.199	17096.801	17098.400
969.0	17100.000	17102.199	17104.400	17106.600	17108.801	17111.000	17113.199	17115.400	17117.600	17119.801
969.1	17122.000	17124.199	17126.400	17128.600	17130.801	17133.000	17135.199	17137.400	17139.600	17141.801
969.2	17144.000	17146.199	17148.400	17150.600	17152.801	17155.000	17157.199	17159.400	17161.600	17163.801
969.3	17166.000	17168.199	17170.400	17172.600	17174.801	17177.000	17179.199	17181.400	17183.600	17185.801
969.4	17188.000	17190.199	17192.400	17194.600	17196.801	17199.000	17201.199	17203.400	17205.600	17207.801
969.5	17210.000	17212.199	17214.400	17216.600	17218.801	17221.000	17223.199	17225.400	17227.600	17229.801
969.6	17232.000	17234.199	17236.400	17238.600	17240.801	17243.000	17245.199	17247.400	17249.600	17251.801
969.7	17254.000	17256.199	17258.400	17260.600	17262.801	17265.000	17267.199	17269.400	17271.600	17273.801
969.8	17276.000	17278.199	17280.400	17282.600	17284.801	17287.000	17289.199	17291.400	17293.600	17295.801
969.9	17298.000	17300.199	17302.400	17304.600	17306.801	17309.000	17311.199	17313.400	17315.600	17317.801
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
970.0	17320.000	17321.600	17323.199	17324.801	17326.400	17328.000	17329.600	17331.199	17332.801	17334.400
970.1	17336.000	17337.600	17339.199	17340.801	17342.400	17344.000	17345.600	17347.199	17348.801	17350.400
970.2	17352.000	17353.600	17355.199	17356.801	17358.400	17360.000	17361.600	17363.199	17364.801	17366.400
970.3	17368.000	17369.600	17371.199	17372.801	17374.400	17376.000	17377.600	17379.199	17380.801	17382.400
970.4	17384.000	17385.600	17387.199	17388.801	17390.400	17392.000	17393.600	17395.199	17396.801	17398.400
970.5	17400.000	17401.600	17403.199	17404.801	17406.400	17408.000	17409.600	17411.199	17412.801	17414.400
970.6	17416.000	17417.600	17419.199	17420.801	17422.400	17424.000	17425.600	17427.199	17428.801	17430.400
970.7	17432.000	17433.600	17435.199	17436.801	17438.400	17440.000	17441.600	17443.199	17444.801	17446.400
970.8	17448.000	17449.600	17451.199	17452.801	17454.400	17456.000	17457.600	17459.199	17460.801	17462.400
970.9	17464.000	17465.600	17467.199	17468.801	17470.400	17472.000	17473.600	17475.199	17476.801	17478.400
971.0	17480.000	17481.801	17483.600	17485.400	17487.199	17489.000	17490.801	17492.600	17494.400	17496.199
971.1	17498.000	17499.801	17501.600	17503.400	17505.199	17507.000	17508.801	17510.600	17512.400	17514.199
971.2	17516.000	17517.801	17519.600	17521.400	17523.199	17525.000	17526.801	17528.600	17530.400	17532.199
971.3	17534.000	17535.801	17537.600	17539.400	17541.199	17543.000	17544.801	17546.600	17548.400	17550.199
971.4	17552.000	17553.801	17555.600	17557.400	17559.199	17561.000	17562.801	17564.600	17566.400	17568.199
971.5	17570.000	17571.801	17573.600	17575.400	17577.199	17579.000	17580.801	17582.600	17584.400	17586.199
971.6	17588.000	17589.801	17591.600	17593.400	17595.199	17597.000	17598.801	17600.600	17602.400	17604.199
971.7	17606.000	17607.801	17609.600	17611.400	17613.199	17615.000	17616.801	17618.600	17620.400	17622.199
971.8	17624.000	17625.801	17627.600	17629.400	17631.199	17633.000	17634.801	17636.600	17638.400	17640.199
971.9	17642.000	17643.801	17645.600	17647.400	17649.199	17651.000	17652.801	17654.600	17656.400	17658.199
972.0	17660.000	17661.600	17663.199	17664.801	17666.400	17668.000	17669.600	17671.199	17672.801	17674.400
972.1	17676.000	17677.600	17679.199	17680.801	17682.400	17684.000	17685.600	17687.199	17688.801	17690.400
972.2	17692.000	17693.600	17695.199	17696.801	17698.400	17700.000	17701.600	17703.199	17704.801	17706.400
972.3	17708.000	17709.600	17711.199	17712.801	17714.400	17716.000	17717.600	17719.199	17720.801	17722.400
972.4	17724.000	17725.600	17727.199	17728.801	17730.400	17732.000	17733.600	17735.199	17736.801	17738.400
972.5	17740.000	17741.600	17743.199	17744.801	17746.400	17748.000	17749.600	17751.199	17752.801	17754.400
972.6	17756.000	17757.600	17759.199	17760.801	17762.400	17764.000	17765.600	17767.199	17768.801	17770.400
972.7	17772.000	17773.600	17775.199	17776.801	17778.400	17780.000	17781.600	17783.199	17784.801	17786.400
972.8	17788.000	17789.600	17791.199	17792.801	17794.400	17796.000	17797.600	17799.199	17800.801	17802.400
972.9	17804.000	17805.600	17807.199	17808.801	17810.400	17812.000	17813.600	17815.199	17816.801	17818.400
973.0	17820.000	17821.801	17823.600	17825.400	17827.199	17829.000	17830.801	17832.600	17834.400	17836.199
973.1	17838.000	17839.801	17841.600	17843.400	17845.199	17847.000	17848.801	17850.600	17852.400	17854.199
973.2	17856.000	17857.801	17859.600	17861.400	17863.199	17865.000	17866.801	17868.600	17870.400	17872.199
973.3	17874.000	17875.801	17877.600	17879.400	17881.199	17883.000	17884.801	17886.600	17888.400	17890.199
973.4	17892.000	17893.801	17895.600	17897.400	17899.199	17901.000	17902.801	17904.600	17906.400	17908.199
973.5	17910.000	17911.801	17913.600	17915.400	17917.199	17919.000	17920.801	17922.600	17924.400	17926.199
973.6	17928.000	17929.801	17931.600	17933.400	17935.199	17937.000	17938.801	17940.600	17942.400	17944.199
973.7	17946.000	17947.801	17949.600	17951.400	17953.199	17955.000	17956.801	17958.600	17960.400	17962.199
973.8	17964.000	17965.801	17967.600	17969.400	17971.199	17973.000	17974.801	17976.600	17978.400	17980.199
973.9	17982.000	17983.801	17985.600	17987.400	17989.199	17991.000	17992.801	17994.600	17996.400	17998.199
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
974.0	18000.000	18001.900	18003.801	18005.699	18007.600	18009.500	18011.400	18013.301	18015.199	18017.100
974.1	18019.000	18020.900	18022.801	18024.699	18026.600	18028.500	18030.400	18032.301	18034.199	18036.100
974.2	18038.000	18039.900	18041.801	18043.699	18045.600	18047.500	18049.400	18051.301	18053.199	18055.100
974.3	18057.000	18058.900	18060.801	18062.699	18064.600	18066.500	18068.400	18070.301	18072.199	18074.100
974.4	18076.000	18077.900	18079.801	18081.699	18083.600	18085.500	18087.400	18089.301	18091.199	18093.100
974.5	18095.000	18096.900	18098.801	18100.699	18102.600	18104.500	18106.400	18108.301	18110.199	18112.100
974.6	18114.000	18115.900	18117.801	18119.699	18121.600	18123.500	18125.400	18127.301	18129.199	18131.100
974.7	18133.000	18134.900	18136.801	18138.699	18140.600	18142.500	18144.400	18146.301	18148.199	18150.100
974.8	18152.000	18153.900	18155.801	18157.699	18159.600	18161.500	18163.400	18165.301	18167.199	18169.100
974.9	18171.000	18172.900	18174.801	18176.699	18178.600	18180.500	18182.400	18184.301	18186.199	18188.100
975.0	18190.000	18191.699	18193.400	18195.100	18196.801	18198.500	18200.199	18201.900	18203.600	18205.301
975.1	18207.000	18208.699	18210.400	18212.100	18213.801	18215.500	18217.199	18218.900	18220.600	18222.301
975.2	18224.000	18225.699	18227.400	18229.100	18230.801	18232.500	18234.199	18235.900	18237.600	18239.301
975.3	18241.000	18242.699	18244.400	18246.100	18247.801	18249.500	18251.199	18252.900	18254.600	18256.301
975.4	18258.000	18259.699	18261.400	18263.100	18264.801	18266.500	18268.199	18269.900	18271.600	18273.301
975.5	18275.000	18276.699	18278.400	18280.100	18281.801	18283.500	18285.199	18286.900	18288.600	18290.301
975.6	18292.000	18293.699	18295.400	18297.100	18298.801	18300.500	18302.199	18303.900	18305.600	18307.301
975.7	18309.000	18310.699	18312.400	18314.100	18315.801	18317.500	18319.199	18320.900	18322.600	18324.301
975.8	18326.000	18327.699	18329.400	18331.100	18332.801	18334.500	18336.199	18337.900	18339.600	18341.301
975.9	18343.000	18344.699	18346.400	18348.100	18349.801	18351.500	18353.199	18354.900	18356.600	18358.301
976.0	18360.000	18361.600	18363.199	18364.801	18366.400	18368.000	18369.600	18371.199	18372.801	18374.400
976.1	18376.000	18377.600	18379.199	18380.801	18382.400	18384.000	18385.600	18387.199	18388.801	18390.400
976.2	18392.000	18393.600	18395.199	18396.801	18398.400	18400.000	18401.600	18403.199	18404.801	18406.400
976.3	18408.000	18409.600	18411.199	18412.801	18414.400	18416.000	18417.600	18419.199	18420.801	18422.400
976.4	18424.000	18425.600	18427.199	18428.801	18430.400	18432.000	18433.600	18435.199	18436.801	18438.400
976.5	18440.000	18441.600	18443.199	18444.801	18446.400	18448.000	18449.600	18451.199	18452.801	18454.400
976.6	18456.000	18457.600	18459.199	18460.801	18462.400	18464.000	18465.600	18467.199	18468.801	18470.400
976.7	18472.000	18473.600	18475.199	18476.801	18478.400	18480.000	18481.600	18483.199	18484.801	18486.400
976.8	18488.000	18489.600	18491.199	18492.801	18494.400	18496.000	18497.600	18499.199	18500.801	18502.400
976.9	18504.000	18505.600	18507.199	18508.801	18510.400	18512.000	18513.600	18515.199	18516.801	18518.400
977.0	18520.000	18521.801	18523.600	18525.400	18527.199	18529.000	18530.801	18532.600	18534.400	18536.199
977.1	18538.000	18539.801	18541.600	18543.400	18545.199	18547.000	18548.801	18550.600	18552.400	18554.199
977.2	18556.000	18557.801	18559.600	18561.400	18563.199	18565.000	18566.801	18568.600	18570.400	18572.199
977.3	18574.000	18575.801	18577.600	18579.400	18581.199	18583.000	18584.801	18586.600	18588.400	18590.199
977.4	18592.000	18593.801	18595.600	18597.400	18599.199	18601.000	18602.801	18604.600	18606.400	18608.199
977.5	18610.000	18611.801	18613.600	18615.400	18617.199	18619.000	18620.801	18622.600	18624.400	18626.199
977.6	18628.000	18629.801	18631.600	18633.400	18635.199	18637.000	18638.801	18640.600	18642.400	18644.199
977.7	18646.000	18647.801	18649.600	18651.400	18653.199	18655.000	18656.801	18658.600	18660.400	18662.199
977.8	18664.000	18665.801	18667.600	18669.400	18671.199	18673.000	18674.801	18676.600	18678.400	18680.199
977.9	18682.000	18683.801	18685.600	18687.400	18689.199	18691.000	18692.801	18694.600	18696.400	18698.199
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. AREA

ELEVATIONS IN FEET-NGVD, AREA (IN THOUSAND ACRES)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
978.0	18700.000	18702.000	18704.000	18706.000	18708.000	18710.000	18712.000	18714.000	18716.000	18718.000
978.1	18720.000	18722.000	18724.000	18726.000	18728.000	18730.000	18732.000	18734.000	18736.000	18738.000
978.2	18740.000	18742.000	18744.000	18746.000	18748.000	18750.000	18752.000	18754.000	18756.000	18758.000
978.3	18760.000	18762.000	18764.000	18766.000	18768.000	18770.000	18772.000	18774.000	18776.000	18778.000
978.4	18780.000	18782.000	18784.000	18786.000	18788.000	18790.000	18792.000	18794.000	18796.000	18798.000
978.5	18800.000	18802.000	18804.000	18806.000	18808.000	18810.000	18812.000	18814.000	18816.000	18818.000
978.6	18820.000	18822.000	18824.000	18826.000	18828.000	18830.000	18832.000	18834.000	18836.000	18838.000
978.7	18840.000	18842.000	18844.000	18846.000	18848.000	18850.000	18852.000	18854.000	18856.000	18858.000
978.8	18860.000	18862.000	18864.000	18866.000	18868.000	18870.000	18872.000	18874.000	18876.000	18878.000
978.9	18880.000	18882.000	18884.000	18886.000	18888.000	18890.000	18892.000	18894.000	18896.000	18898.000
979.0	18900.000	18901.600	18903.199	18904.801	18906.400	18908.000	18909.600	18911.199	18912.801	18914.400
979.1	18916.000	18917.600	18919.199	18920.801	18922.400	18924.000	18925.600	18927.199	18928.801	18930.400
979.2	18932.000	18933.600	18935.199	18936.801	18938.400	18940.000	18941.600	18943.199	18944.801	18946.400
979.3	18948.000	18949.600	18951.199	18952.801	18954.400	18956.000	18957.600	18959.199	18960.801	18962.400
979.4	18964.000	18965.600	18967.199	18968.801	18970.400	18972.000	18973.600	18975.199	18976.801	18978.400
979.5	18980.000	18981.600	18983.199	18984.801	18986.400	18988.000	18989.600	18991.199	18992.801	18994.400
979.6	18996.000	18997.600	18999.199	19000.801	19002.400	19004.000	19005.600	19007.199	19008.801	19010.400
979.7	19012.000	19013.600	19015.199	19016.801	19018.400	19020.000	19021.600	19023.199	19024.801	19026.400
979.8	19028.000	19029.600	19031.199	19032.801	19034.400	19036.000	19037.600	19039.199	19040.801	19042.400
979.9	19044.000	19045.600	19047.199	19048.801	19050.400	19052.000	19053.600	19055.199	19056.801	19058.400
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
762.0	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
762.1	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05
762.2	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07
762.3	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10
762.4	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12
762.5	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15
762.6	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17
762.7	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.20
762.8	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.22
762.9	0.22	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25
763.0	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27
763.1	0.28	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30
763.2	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32
763.3	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.34	0.35
763.4	0.35	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.37
763.5	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.40	0.40
763.6	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42
763.7	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.45
763.8	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47
763.9	0.47	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50
764.0	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.54	0.54	0.55
764.1	0.55	0.56	0.56	0.56	0.57	0.57	0.58	0.58	0.59	0.60
764.2	0.60	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.64	0.64
764.3	0.65	0.65	0.66	0.67	0.67	0.68	0.68	0.69	0.69	0.69
764.4	0.70	0.70	0.71	0.71	0.72	0.73	0.73	0.74	0.74	0.75
764.5	0.75	0.75	0.76	0.76	0.77	0.77	0.78	0.79	0.79	0.80
764.6	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.85
764.7	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89
764.8	0.90	0.90	0.91	0.92	0.92	0.93	0.93	0.94	0.94	0.94
764.9	0.95	0.95	0.96	0.96	0.97	0.98	0.98	0.99	0.99	1.00
765.0	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
765.1	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19
765.2	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29
765.3	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39
765.4	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49
765.5	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59
765.6	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69
765.7	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79
765.8	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89
765.9	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
766.0	2.00	2.01	2.02	2.03	2.04	2.05	2.06	2.07	2.08	2.09
766.1	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17	2.18	2.19
766.2	2.20	2.21	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29
766.3	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39
766.4	2.40	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49
766.5	2.50	2.51	2.52	2.53	2.54	2.55	2.56	2.57	2.58	2.59
766.6	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.67	2.68	2.69
766.7	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77	2.78	2.79
766.8	2.80	2.81	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89
766.9	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99
767.0	3.00	3.01	3.02	3.03	3.04	3.05	3.06	3.07	3.08	3.09
767.1	3.10	3.11	3.12	3.13	3.14	3.15	3.16	3.17	3.18	3.19
767.2	3.20	3.21	3.22	3.23	3.24	3.25	3.26	3.27	3.28	3.29
767.3	3.30	3.31	3.32	3.33	3.34	3.35	3.36	3.37	3.38	3.39
767.4	3.40	3.41	3.42	3.43	3.44	3.45	3.46	3.47	3.48	3.49
767.5	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59
767.6	3.60	3.61	3.62	3.63	3.64	3.65	3.66	3.67	3.68	3.69
767.7	3.70	3.71	3.72	3.73	3.74	3.75	3.76	3.77	3.78	3.79
767.8	3.80	3.81	3.82	3.83	3.84	3.85	3.86	3.87	3.88	3.89
767.9	3.90	3.91	3.92	3.93	3.94	3.95	3.96	3.97	3.98	3.99
768.0	4.00	4.03	4.06	4.09	4.12	4.15	4.18	4.21	4.24	4.27
768.1	4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57
768.2	4.60	4.63	4.66	4.69	4.72	4.75	4.78	4.81	4.84	4.87
768.3	4.90	4.93	4.96	4.99	5.02	5.05	5.08	5.11	5.14	5.17
768.4	5.20	5.23	5.26	5.29	5.32	5.35	5.38	5.41	5.44	5.47
768.5	5.50	5.53	5.56	5.59	5.62	5.65	5.68	5.71	5.74	5.77
768.6	5.80	5.83	5.86	5.89	5.92	5.95	5.98	6.01	6.04	6.07
768.7	6.10	6.13	6.16	6.19	6.22	6.25	6.28	6.31	6.34	6.37
768.8	6.40	6.43	6.46	6.49	6.52	6.55	6.58	6.61	6.64	6.67
768.9	6.70	6.73	6.76	6.79	6.82	6.85	6.88	6.91	6.94	6.97
769.0	7.00	7.05	7.10	7.15	7.20	7.25	7.30	7.35	7.40	7.45
769.1	7.50	7.55	7.60	7.65	7.70	7.75	7.80	7.85	7.90	7.95
769.2	8.00	8.05	8.10	8.15	8.20	8.25	8.30	8.35	8.40	8.45
769.3	8.50	8.55	8.60	8.65	8.70	8.75	8.80	8.85	8.90	8.95
769.4	9.00	9.05	9.10	9.15	9.20	9.25	9.30	9.35	9.40	9.45
769.5	9.50	9.55	9.60	9.65	9.70	9.75	9.80	9.85	9.90	9.95
769.6	10.00	10.05	10.10	10.15	10.20	10.25	10.30	10.35	10.40	10.45
769.7	10.50	10.55	10.60	10.65	10.70	10.75	10.80	10.85	10.90	10.95
769.8	11.00	11.05	11.10	11.15	11.20	11.25	11.30	11.35	11.40	11.45
769.9	11.50	11.55	11.60	11.65	11.70	11.75	11.80	11.85	11.90	11.95
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
770.0	12.00	12.07	12.14	12.21	12.28	12.35	12.42	12.49	12.56	12.63
770.1	12.70	12.77	12.84	12.91	12.98	13.05	13.12	13.19	13.26	13.33
770.2	13.40	13.47	13.54	13.61	13.68	13.75	13.82	13.89	13.96	14.03
770.3	14.10	14.17	14.24	14.31	14.38	14.45	14.52	14.59	14.66	14.73
770.4	14.80	14.87	14.94	15.01	15.08	15.15	15.22	15.29	15.36	15.43
770.5	15.50	15.57	15.64	15.71	15.78	15.85	15.92	15.99	16.06	16.13
770.6	16.20	16.27	16.34	16.41	16.48	16.55	16.62	16.69	16.76	16.83
770.7	16.90	16.97	17.04	17.11	17.18	17.25	17.32	17.39	17.46	17.53
770.8	17.60	17.67	17.74	17.81	17.88	17.95	18.02	18.09	18.16	18.23
770.9	18.30	18.37	18.44	18.51	18.58	18.65	18.72	18.79	18.86	18.93
771.0	19.00	19.09	19.18	19.27	19.36	19.45	19.54	19.63	19.72	19.81
771.1	19.90	19.99	20.08	20.17	20.26	20.35	20.44	20.53	20.62	20.71
771.2	20.80	20.89	20.98	21.07	21.16	21.25	21.34	21.43	21.52	21.61
771.3	21.70	21.79	21.88	21.97	22.06	22.15	22.24	22.33	22.42	22.51
771.4	22.60	22.69	22.78	22.87	22.96	23.05	23.14	23.23	23.32	23.41
771.5	23.50	23.59	23.68	23.77	23.86	23.95	24.04	24.13	24.22	24.31
771.6	24.40	24.49	24.58	24.67	24.76	24.85	24.94	25.03	25.12	25.21
771.7	25.30	25.39	25.48	25.57	25.66	25.75	25.84	25.93	26.02	26.11
771.8	26.20	26.29	26.38	26.47	26.56	26.65	26.74	26.83	26.92	27.01
771.9	27.10	27.19	27.28	27.37	27.46	27.55	27.64	27.73	27.82	27.91
772.0	28.00	28.12	28.24	28.36	28.48	28.60	28.72	28.84	28.96	29.08
772.1	29.20	29.32	29.44	29.56	29.68	29.80	29.92	30.04	30.16	30.28
772.2	30.40	30.52	30.64	30.76	30.88	31.00	31.12	31.24	31.36	31.48
772.3	31.60	31.72	31.84	31.96	32.08	32.20	32.32	32.44	32.56	32.68
772.4	32.80	32.92	33.04	33.16	33.28	33.40	33.52	33.64	33.76	33.88
772.5	34.00	34.12	34.24	34.36	34.48	34.60	34.72	34.84	34.96	35.08
772.6	35.20	35.32	35.44	35.56	35.68	35.80	35.92	36.04	36.16	36.28
772.7	36.40	36.52	36.64	36.76	36.88	37.00	37.12	37.24	37.36	37.48
772.8	37.60	37.72	37.84	37.96	38.08	38.20	38.32	38.44	38.56	38.68
772.9	38.80	38.92	39.04	39.16	39.28	39.40	39.52	39.64	39.76	39.88
773.0	40.00	40.14	40.28	40.42	40.56	40.70	40.84	40.98	41.12	41.26
773.1	41.40	41.54	41.68	41.82	41.96	42.10	42.24	42.38	42.52	42.66
773.2	42.80	42.94	43.08	43.22	43.36	43.50	43.64	43.78	43.92	44.06
773.3	44.20	44.34	44.48	44.62	44.76	44.90	45.04	45.18	45.32	45.46
773.4	45.60	45.74	45.88	46.02	46.16	46.30	46.44	46.58	46.72	46.86
773.5	47.00	47.14	47.28	47.42	47.56	47.70	47.84	47.98	48.12	48.26
773.6	48.40	48.54	48.68	48.82	48.96	49.10	49.24	49.38	49.52	49.66
773.7	49.80	49.94	50.08	50.22	50.36	50.50	50.64	50.78	50.92	51.06
773.8	51.20	51.34	51.48	51.62	51.76	51.90	52.04	52.18	52.32	52.46
773.9	52.60	52.74	52.88	53.02	53.16	53.30	53.44	53.58	53.72	53.86
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
774.0	54.00	54.17	54.34	54.51	54.68	54.85	55.02	55.19	55.36	55.53
774.1	55.70	55.87	56.04	56.21	56.38	56.55	56.72	56.89	57.06	57.23
774.2	57.40	57.57	57.74	57.91	58.08	58.25	58.42	58.59	58.76	58.93
774.3	59.10	59.27	59.44	59.61	59.78	59.95	60.12	60.29	60.46	60.63
774.4	60.80	60.97	61.14	61.31	61.48	61.65	61.82	61.99	62.16	62.33
774.5	62.50	62.67	62.84	63.01	63.18	63.35	63.52	63.69	63.86	64.03
774.6	64.20	64.37	64.54	64.71	64.88	65.05	65.22	65.39	65.56	65.73
774.7	65.90	66.07	66.24	66.41	66.58	66.75	66.92	67.09	67.26	67.43
774.8	67.60	67.77	67.94	68.11	68.28	68.45	68.62	68.79	68.96	69.13
774.9	69.30	69.47	69.64	69.81	69.98	70.15	70.32	70.49	70.66	70.83
775.0	71.00	71.21	71.42	71.63	71.84	72.05	72.26	72.47	72.68	72.89
775.1	73.10	73.31	73.52	73.73	73.94	74.15	74.36	74.57	74.78	74.99
775.2	75.20	75.41	75.62	75.83	76.04	76.25	76.46	76.67	76.88	77.09
775.3	77.30	77.51	77.72	77.93	78.14	78.35	78.56	78.77	78.98	79.19
775.4	79.40	79.61	79.82	80.03	80.24	80.45	80.66	80.87	81.08	81.29
775.5	81.50	81.71	81.92	82.13	82.34	82.55	82.76	82.97	83.18	83.39
775.6	83.60	83.81	84.02	84.23	84.44	84.65	84.86	85.07	85.28	85.49
775.7	85.70	85.91	86.12	86.33	86.54	86.75	86.96	87.17	87.38	87.59
775.8	87.80	88.01	88.22	88.43	88.64	88.85	89.06	89.27	89.48	89.69
775.9	89.90	90.11	90.32	90.53	90.74	90.95	91.16	91.37	91.58	91.79
776.0	92.00	92.24	92.48	92.72	92.96	93.20	93.44	93.68	93.92	94.16
776.1	94.40	94.64	94.88	95.12	95.36	95.60	95.84	96.08	96.32	96.56
776.2	96.80	97.04	97.28	97.52	97.76	98.00	98.24	98.48	98.72	98.96
776.3	99.20	99.44	99.68	99.92	100.16	100.40	100.64	100.88	101.12	101.36
776.4	101.60	101.84	102.08	102.32	102.56	102.80	103.04	103.28	103.52	103.76
776.5	104.00	104.24	104.48	104.72	104.96	105.20	105.44	105.68	105.92	106.16
776.6	106.40	106.64	106.88	107.12	107.36	107.60	107.84	108.08	108.32	108.56
776.7	108.80	109.04	109.28	109.52	109.76	110.00	110.24	110.48	110.72	110.96
776.8	111.20	111.44	111.68	111.92	112.16	112.40	112.64	112.88	113.12	113.36
776.9	113.60	113.84	114.08	114.32	114.56	114.80	115.04	115.28	115.52	115.76
777.0	116.00	116.29	116.58	116.87	117.16	117.45	117.74	118.03	118.32	118.61
777.1	118.90	119.19	119.48	119.77	120.06	120.35	120.64	120.93	121.22	121.51
777.2	121.80	122.09	122.38	122.67	122.96	123.25	123.54	123.83	124.12	124.41
777.3	124.70	124.99	125.28	125.57	125.86	126.15	126.44	126.73	127.02	127.31
777.4	127.60	127.89	128.18	128.47	128.76	129.05	129.34	129.63	129.92	130.21
777.5	130.50	130.79	131.08	131.37	131.66	131.95	132.24	132.53	132.82	133.11
777.6	133.40	133.69	133.98	134.27	134.56	134.85	135.14	135.43	135.72	136.01
777.7	136.30	136.59	136.88	137.17	137.46	137.75	138.04	138.33	138.62	138.91
777.8	139.20	139.49	139.78	140.07	140.36	140.65	140.94	141.23	141.52	141.81
777.9	142.10	142.39	142.68	142.97	143.26	143.55	143.84	144.13	144.42	144.71
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
778.0	145.00	145.33	145.66	145.99	146.32	146.65	146.98	147.31	147.64	147.97
778.1	148.30	148.63	148.96	149.29	149.62	149.95	150.28	150.61	150.94	151.27
778.2	151.60	151.93	152.26	152.59	152.92	153.25	153.58	153.91	154.24	154.57
778.3	154.90	155.23	155.56	155.89	156.22	156.55	156.88	157.21	157.54	157.87
778.4	158.20	158.53	158.86	159.19	159.52	159.85	160.18	160.51	160.84	161.17
778.5	161.50	161.83	162.16	162.49	162.82	163.15	163.48	163.81	164.14	164.47
778.6	164.80	165.13	165.46	165.79	166.12	166.45	166.78	167.11	167.44	167.77
778.7	168.10	168.43	168.76	169.09	169.42	169.75	170.08	170.41	170.74	171.07
778.8	171.40	171.73	172.06	172.39	172.72	173.05	173.38	173.71	174.04	174.37
778.9	174.70	175.03	175.36	175.69	176.02	176.35	176.68	177.01	177.34	177.67
779.0	178.00	178.37	178.74	179.11	179.48	179.85	180.22	180.59	180.96	181.33
779.1	181.70	182.07	182.44	182.81	183.18	183.55	183.92	184.29	184.66	185.03
779.2	185.40	185.77	186.14	186.51	186.88	187.25	187.62	187.99	188.36	188.73
779.3	189.10	189.47	189.84	190.21	190.58	190.95	191.32	191.69	192.06	192.43
779.4	192.80	193.17	193.54	193.91	194.28	194.65	195.02	195.39	195.76	196.13
779.5	196.50	196.87	197.24	197.61	197.98	198.35	198.72	199.09	199.46	199.83
779.6	200.20	200.57	200.94	201.31	201.68	202.05	202.42	202.79	203.16	203.53
779.7	203.90	204.27	204.64	205.01	205.38	205.75	206.12	206.49	206.86	207.23
779.8	207.60	207.97	208.34	208.71	209.08	209.45	209.82	210.19	210.56	210.93
779.9	211.30	211.67	212.04	212.41	212.78	213.15	213.52	213.89	214.26	214.63
780.0	215.00	215.43	215.86	216.29	216.72	217.15	217.58	218.01	218.44	218.87
780.1	219.30	219.73	220.16	220.59	221.02	221.45	221.88	222.31	222.74	223.17
780.2	223.60	224.03	224.46	224.89	225.32	225.75	226.18	226.61	227.04	227.47
780.3	227.90	228.33	228.76	229.19	229.62	230.05	230.48	230.91	231.34	231.77
780.4	232.20	232.63	233.06	233.49	233.92	234.35	234.78	235.21	235.64	236.07
780.5	236.50	236.93	237.36	237.79	238.22	238.65	239.08	239.51	239.94	240.37
780.6	240.80	241.23	241.66	242.09	242.52	242.95	243.38	243.81	244.24	244.67
780.7	245.10	245.53	245.96	246.39	246.82	247.25	247.68	248.11	248.54	248.97
780.8	249.40	249.83	250.26	250.69	251.12	251.55	251.98	252.41	252.84	253.27
780.9	253.70	254.13	254.56	254.99	255.42	255.85	256.28	256.71	257.14	257.57
781.0	258.00	258.47	258.94	259.41	259.88	260.35	260.82	261.29	261.76	262.23
781.1	262.70	263.17	263.64	264.11	264.58	265.05	265.52	265.99	266.46	266.93
781.2	267.40	267.87	268.34	268.81	269.28	269.75	270.22	270.69	271.16	271.63
781.3	272.10	272.57	273.04	273.51	273.98	274.45	274.92	275.39	275.86	276.33
781.4	276.80	277.27	277.74	278.21	278.68	279.15	279.62	280.09	280.56	281.03
781.5	281.50	281.97	282.44	282.91	283.38	283.85	284.32	284.79	285.26	285.73
781.6	286.20	286.67	287.14	287.61	288.08	288.55	289.02	289.49	289.96	290.43
781.7	290.90	291.37	291.84	292.31	292.78	293.25	293.72	294.19	294.66	295.13
781.8	295.60	296.07	296.54	297.01	297.48	297.95	298.42	298.89	299.36	299.83
781.9	300.30	300.77	301.24	301.71	302.18	302.65	303.12	303.59	304.06	304.53
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
782.0	305.00	305.53	306.06	306.59	307.12	307.65	308.18	308.71	309.24	309.77
782.1	310.30	310.83	311.36	311.89	312.42	312.95	313.48	314.01	314.54	315.07
782.2	315.60	316.13	316.66	317.19	317.72	318.25	318.78	319.31	319.84	320.37
782.3	320.90	321.43	321.96	322.49	323.02	323.55	324.08	324.61	325.14	325.67
782.4	326.20	326.73	327.26	327.79	328.32	328.85	329.38	329.91	330.44	330.97
782.5	331.50	332.03	332.56	333.09	333.62	334.15	334.68	335.21	335.74	336.27
782.6	336.80	337.33	337.86	338.39	338.92	339.45	339.98	340.51	341.04	341.57
782.7	342.10	342.63	343.16	343.69	344.22	344.75	345.28	345.81	346.34	346.87
782.8	347.40	347.93	348.46	348.99	349.52	350.05	350.58	351.11	351.64	352.17
782.9	352.70	353.23	353.76	354.29	354.82	355.35	355.88	356.41	356.94	357.47
783.0	358.00	358.60	359.20	359.80	360.40	361.00	361.60	362.20	362.80	363.40
783.1	364.00	364.60	365.20	365.80	366.40	367.00	367.60	368.20	368.80	369.40
783.2	370.00	370.60	371.20	371.80	372.40	373.00	373.60	374.20	374.80	375.40
783.3	376.00	376.60	377.20	377.80	378.40	379.00	379.60	380.20	380.80	381.40
783.4	382.00	382.60	383.20	383.80	384.40	385.00	385.60	386.20	386.80	387.40
783.5	388.00	388.60	389.20	389.80	390.40	391.00	391.60	392.20	392.80	393.40
783.6	394.00	394.60	395.20	395.80	396.40	397.00	397.60	398.20	398.80	399.40
783.7	400.00	400.60	401.20	401.80	402.40	403.00	403.60	404.20	404.80	405.40
783.8	406.00	406.60	407.20	407.80	408.40	409.00	409.60	410.20	410.80	411.40
783.9	412.00	412.60	413.20	413.80	414.40	415.00	415.60	416.20	416.80	417.40
784.0	418.00	418.66	419.32	419.98	420.64	421.30	421.96	422.62	423.28	423.94
784.1	424.60	425.26	425.92	426.58	427.24	427.90	428.56	429.22	429.88	430.54
784.2	431.20	431.86	432.52	433.18	433.84	434.50	435.16	435.82	436.48	437.14
784.3	437.80	438.46	439.12	439.78	440.44	441.10	441.76	442.42	443.08	443.74
784.4	444.40	445.06	445.72	446.38	447.04	447.70	448.36	449.02	449.68	450.34
784.5	451.00	451.66	452.32	452.98	453.64	454.30	454.96	455.62	456.28	456.94
784.6	457.60	458.26	458.92	459.58	460.24	460.90	461.56	462.22	462.88	463.54
784.7	464.20	464.86	465.52	466.18	466.84	467.50	468.16	468.82	469.48	470.14
784.8	470.80	471.46	472.12	472.78	473.44	474.10	474.76	475.42	476.08	476.74
784.9	477.40	478.06	478.72	479.38	480.04	480.70	481.36	482.02	482.68	483.34
785.0	484.00	484.73	485.46	486.19	486.92	487.65	488.38	489.11	489.84	490.57
785.1	491.30	492.03	492.76	493.49	494.22	494.95	495.68	496.41	497.14	497.87
785.2	498.60	499.33	500.06	500.79	501.52	502.25	502.98	503.71	504.44	505.17
785.3	505.90	506.63	507.36	508.09	508.82	509.55	510.28	511.01	511.74	512.47
785.4	513.20	513.93	514.66	515.39	516.12	516.85	517.58	518.31	519.04	519.77
785.5	520.50	521.23	521.96	522.69	523.42	524.15	524.88	525.61	526.34	527.07
785.6	527.80	528.53	529.26	529.99	530.72	531.45	532.18	532.91	533.64	534.37
785.7	535.10	535.83	536.56	537.29	538.02	538.75	539.48	540.21	540.94	541.67
785.8	542.40	543.13	543.86	544.59	545.32	546.05	546.78	547.51	548.24	548.97
785.9	549.70	550.43	551.16	551.89	552.62	553.35	554.08	554.81	555.54	556.27
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
786.0	557.00	557.81	558.62	559.43	560.24	561.05	561.86	562.67	563.48	564.29
786.1	565.10	565.91	566.72	567.53	568.34	569.15	569.96	570.77	571.58	572.39
786.2	573.20	574.01	574.82	575.63	576.44	577.25	578.06	578.87	579.68	580.49
786.3	581.30	582.11	582.92	583.73	584.54	585.35	586.16	586.97	587.78	588.59
786.4	589.40	590.21	591.02	591.83	592.64	593.45	594.26	595.07	595.88	596.69
786.5	597.50	598.31	599.12	599.93	600.74	601.55	602.36	603.17	603.98	604.79
786.6	605.60	606.41	607.22	608.03	608.84	609.65	610.46	611.27	612.08	612.89
786.7	613.70	614.51	615.32	616.13	616.94	617.75	618.56	619.37	620.18	620.99
786.8	621.80	622.61	623.42	624.23	625.04	625.85	626.66	627.47	628.28	629.09
786.9	629.90	630.71	631.52	632.33	633.14	633.95	634.76	635.57	636.38	637.19
787.0	638.00	638.88	639.76	640.64	641.52	642.40	643.28	644.16	645.04	645.92
787.1	646.80	647.68	648.56	649.44	650.32	651.20	652.08	652.96	653.84	654.72
787.2	655.60	656.48	657.36	658.24	659.12	660.00	660.88	661.76	662.64	663.52
787.3	664.40	665.28	666.16	667.04	667.92	668.80	669.68	670.56	671.44	672.32
787.4	673.20	674.08	674.96	675.84	676.72	677.60	678.48	679.36	680.24	681.12
787.5	682.00	682.88	683.76	684.64	685.52	686.40	687.28	688.16	689.04	689.92
787.6	690.80	691.68	692.56	693.44	694.32	695.20	696.08	696.96	697.84	698.72
787.7	699.60	700.48	701.36	702.24	703.12	704.00	704.88	705.76	706.64	707.52
787.8	708.40	709.28	710.16	711.04	711.92	712.80	713.68	714.56	715.44	716.32
787.9	717.20	718.08	718.96	719.84	720.72	721.60	722.48	723.36	724.24	725.12
788.0	726.00	726.97	727.94	728.91	729.88	730.85	731.82	732.79	733.76	734.73
788.1	735.70	736.67	737.64	738.61	739.58	740.55	741.52	742.49	743.46	744.43
788.2	745.40	746.37	747.34	748.31	749.28	750.25	751.22	752.19	753.16	754.13
788.3	755.10	756.07	757.04	758.01	758.98	759.95	760.92	761.89	762.86	763.83
788.4	764.80	765.77	766.74	767.71	768.68	769.65	770.62	771.59	772.56	773.53
788.5	774.50	775.47	776.44	777.41	778.38	779.35	780.32	781.29	782.26	783.23
788.6	784.20	785.17	786.14	787.11	788.08	789.05	790.02	790.99	791.96	792.93
788.7	793.90	794.87	795.84	796.81	797.78	798.75	799.72	800.69	801.66	802.63
788.8	803.60	804.57	805.54	806.51	807.48	808.45	809.42	810.39	811.36	812.33
788.9	813.30	814.27	815.24	816.21	817.18	818.15	819.12	820.09	821.06	822.03
789.0	823.00	824.07	825.14	826.21	827.28	828.35	829.42	830.49	831.56	832.63
789.1	833.70	834.77	835.84	836.91	837.98	839.05	840.12	841.19	842.26	843.33
789.2	844.40	845.47	846.54	847.61	848.68	849.75	850.82	851.89	852.96	854.03
789.3	855.10	856.17	857.24	858.31	859.38	860.45	861.52	862.59	863.66	864.73
789.4	865.80	866.87	867.94	869.01	870.08	871.15	872.22	873.29	874.36	875.43
789.5	876.50	877.57	878.64	879.71	880.78	881.85	882.92	883.99	885.06	886.13
789.6	887.20	888.27	889.34	890.41	891.48	892.55	893.62	894.69	895.76	896.83
789.7	897.90	898.97	900.04	901.11	902.18	903.25	904.32	905.39	906.46	907.53
789.8	908.60	909.67	910.74	911.81	912.88	913.95	915.02	916.09	917.16	918.23
789.9	919.30	920.37	921.44	922.51	923.58	924.65	925.72	926.79	927.86	928.93
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
790.0	930.00	931.22	932.44	933.66	934.88	936.10	937.32	938.54	939.76	940.98
790.1	942.20	943.42	944.64	945.86	947.08	948.30	949.52	950.74	951.96	953.18
790.2	954.40	955.62	956.84	958.06	959.28	960.50	961.72	962.94	964.16	965.38
790.3	966.60	967.82	969.04	970.26	971.48	972.70	973.92	975.14	976.36	977.58
790.4	978.80	980.02	981.24	982.46	983.68	984.90	986.12	987.34	988.56	989.78
790.5	991.00	992.22	993.44	994.66	995.88	997.10	998.32	999.54	1000.76	1001.98
790.6	1003.20	1004.42	1005.64	1006.86	1008.08	1009.30	1010.52	1011.74	1012.96	1014.18
790.7	1015.40	1016.62	1017.84	1019.06	1020.28	1021.50	1022.72	1023.94	1025.16	1026.38
790.8	1027.60	1028.82	1030.04	1031.26	1032.48	1033.70	1034.92	1036.14	1037.36	1038.58
790.9	1039.80	1041.02	1042.24	1043.46	1044.68	1045.90	1047.12	1048.34	1049.56	1050.78
791.0	1052.00	1053.37	1054.74	1056.11	1057.48	1058.85	1060.22	1061.59	1062.96	1064.33
791.1	1065.70	1067.07	1068.44	1069.81	1071.18	1072.55	1073.92	1075.29	1076.66	1078.03
791.2	1079.40	1080.77	1082.14	1083.51	1084.88	1086.25	1087.62	1088.99	1090.36	1091.73
791.3	1093.10	1094.47	1095.84	1097.21	1098.58	1099.95	1101.32	1102.69	1104.06	1105.43
791.4	1106.80	1108.17	1109.54	1110.91	1112.28	1113.65	1115.02	1116.39	1117.76	1119.13
791.5	1120.50	1121.87	1123.24	1124.61	1125.98	1127.35	1128.72	1130.09	1131.46	1132.83
791.6	1134.20	1135.57	1136.94	1138.31	1139.68	1141.05	1142.42	1143.79	1145.16	1146.53
791.7	1147.90	1149.27	1150.64	1152.01	1153.38	1154.75	1156.12	1157.49	1158.86	1160.23
791.8	1161.60	1162.97	1164.34	1165.71	1167.08	1168.45	1169.82	1171.19	1172.56	1173.93
791.9	1175.30	1176.67	1178.04	1179.41	1180.78	1182.15	1183.52	1184.89	1186.26	1187.63
792.0	1189.00	1190.55	1192.10	1193.65	1195.20	1196.75	1198.30	1199.85	1201.40	1202.95
792.1	1204.50	1206.05	1207.60	1209.15	1210.70	1212.25	1213.80	1215.35	1216.90	1218.45
792.2	1220.00	1221.55	1223.10	1224.65	1226.20	1227.75	1229.30	1230.85	1232.40	1233.95
792.3	1235.50	1237.05	1238.60	1240.15	1241.70	1243.25	1244.80	1246.35	1247.90	1249.45
792.4	1251.00	1252.55	1254.10	1255.65	1257.20	1258.75	1260.30	1261.85	1263.40	1264.95
792.5	1266.50	1268.05	1269.60	1271.15	1272.70	1274.25	1275.80	1277.35	1278.90	1280.45
792.6	1282.00	1283.55	1285.10	1286.65	1288.20	1289.75	1291.30	1292.85	1294.40	1295.95
792.7	1297.50	1299.05	1300.60	1302.15	1303.70	1305.25	1306.80	1308.35	1309.90	1311.45
792.8	1313.00	1314.55	1316.10	1317.65	1319.20	1320.75	1322.30	1323.85	1325.40	1326.95
792.9	1328.50	1330.05	1331.60	1333.15	1334.70	1336.25	1337.80	1339.35	1340.90	1342.45
793.0	1344.00	1345.73	1347.46	1349.19	1350.92	1352.65	1354.38	1356.11	1357.84	1359.57
793.1	1361.30	1363.03	1364.76	1366.49	1368.22	1369.95	1371.68	1373.41	1375.14	1376.87
793.2	1378.60	1380.33	1382.06	1383.79	1385.52	1387.25	1388.98	1390.71	1392.44	1394.17
793.3	1395.90	1397.63	1399.36	1401.09	1402.82	1404.55	1406.28	1408.01	1409.74	1411.47
793.4	1413.20	1414.93	1416.66	1418.39	1420.12	1421.85	1423.58	1425.31	1427.04	1428.77
793.5	1430.50	1432.23	1433.96	1435.69	1437.42	1439.15	1440.88	1442.61	1444.34	1446.07
793.6	1447.80	1449.53	1451.26	1452.99	1454.72	1456.45	1458.18	1459.91	1461.64	1463.37
793.7	1465.10	1466.83	1468.56	1470.29	1472.02	1473.75	1475.48	1477.21	1478.94	1480.67
793.8	1482.40	1484.13	1485.86	1487.59	1489.32	1491.05	1492.78	1494.51	1496.24	1497.97
793.9	1499.70	1501.43	1503.16	1504.89	1506.62	1508.35	1510.08	1511.81	1513.54	1515.27
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
794.0	1517.00	1518.91	1520.82	1522.73	1524.64	1526.55	1528.46	1530.37	1532.28	1534.19
794.1	1536.10	1538.01	1539.92	1541.83	1543.74	1545.65	1547.56	1549.47	1551.38	1553.29
794.2	1555.20	1557.11	1559.02	1560.93	1562.84	1564.75	1566.66	1568.57	1570.48	1572.39
794.3	1574.30	1576.21	1578.12	1580.03	1581.94	1583.85	1585.76	1587.67	1589.58	1591.49
794.4	1593.40	1595.31	1597.22	1599.13	1601.04	1602.95	1604.86	1606.77	1608.68	1610.59
794.5	1612.50	1614.41	1616.32	1618.23	1620.14	1622.05	1623.96	1625.87	1627.78	1629.69
794.6	1631.60	1633.51	1635.42	1637.33	1639.24	1641.15	1643.06	1644.97	1646.88	1648.79
794.7	1650.70	1652.61	1654.52	1656.43	1658.34	1660.25	1662.16	1664.07	1665.98	1667.89
794.8	1669.80	1671.71	1673.62	1675.53	1677.44	1679.35	1681.26	1683.17	1685.08	1686.99
794.9	1688.90	1690.81	1692.72	1694.63	1696.54	1698.45	1700.36	1702.27	1704.18	1706.09
795.0	1708.00	1710.06	1712.12	1714.18	1716.24	1718.30	1720.36	1722.42	1724.48	1726.54
795.1	1728.60	1730.66	1732.72	1734.78	1736.84	1738.90	1740.96	1743.02	1745.08	1747.14
795.2	1749.20	1751.26	1753.32	1755.38	1757.44	1759.50	1761.56	1763.62	1765.68	1767.74
795.3	1769.80	1771.86	1773.92	1775.98	1778.04	1780.10	1782.16	1784.22	1786.28	1788.34
795.4	1790.40	1792.46	1794.52	1796.58	1798.64	1800.70	1802.76	1804.82	1806.88	1808.94
795.5	1811.00	1813.06	1815.12	1817.18	1819.24	1821.30	1823.36	1825.42	1827.48	1829.54
795.6	1831.60	1833.66	1835.72	1837.78	1839.84	1841.90	1843.96	1846.02	1848.08	1850.14
795.7	1852.20	1854.26	1856.32	1858.38	1860.44	1862.50	1864.56	1866.62	1868.68	1870.74
795.8	1872.80	1874.86	1876.92	1878.98	1881.04	1883.10	1885.16	1887.22	1889.28	1891.34
795.9	1893.40	1895.46	1897.52	1899.58	1901.64	1903.70	1905.76	1907.82	1909.88	1911.94
796.0	1914.00	1916.22	1918.44	1920.66	1922.88	1925.10	1927.32	1929.54	1931.76	1933.98
796.1	1936.20	1938.42	1940.64	1942.86	1945.08	1947.30	1949.52	1951.74	1953.96	1956.18
796.2	1958.40	1960.62	1962.84	1965.06	1967.28	1969.50	1971.72	1973.94	1976.16	1978.38
796.3	1980.60	1982.82	1985.04	1987.26	1989.48	1991.70	1993.92	1996.14	1998.36	2000.58
796.4	2002.80	2005.02	2007.24	2009.46	2011.68	2013.90	2016.12	2018.34	2020.56	2022.78
796.5	2025.00	2027.22	2029.44	2031.66	2033.88	2036.10	2038.32	2040.54	2042.76	2044.98
796.6	2047.20	2049.42	2051.64	2053.86	2056.08	2058.30	2060.52	2062.74	2064.96	2067.18
796.7	2069.40	2071.62	2073.84	2076.06	2078.28	2080.50	2082.72	2084.94	2087.16	2089.38
796.8	2091.60	2093.82	2096.04	2098.26	2100.48	2102.70	2104.92	2107.14	2109.36	2111.58
796.9	2113.80	2116.02	2118.24	2120.46	2122.68	2124.90	2127.12	2129.34	2131.56	2133.78
797.0	2136.00	2138.41	2140.82	2143.23	2145.64	2148.05	2150.46	2152.87	2155.28	2157.69
797.1	2160.10	2162.51	2164.92	2167.33	2169.74	2172.15	2174.56	2176.97	2179.38	2181.79
797.2	2184.20	2186.61	2189.02	2191.43	2193.84	2196.25	2198.66	2201.07	2203.48	2205.89
797.3	2208.30	2210.71	2213.12	2215.53	2217.94	2220.35	2222.76	2225.17	2227.58	2229.99
797.4	2232.40	2234.81	2237.22	2239.63	2242.04	2244.45	2246.86	2249.27	2251.68	2254.09
797.5	2256.50	2258.91	2261.32	2263.73	2266.14	2268.55	2270.96	2273.37	2275.78	2278.19
797.6	2280.60	2283.01	2285.42	2287.83	2290.24	2292.65	2295.06	2297.47	2299.88	2302.29
797.7	2304.70	2307.11	2309.52	2311.93	2314.34	2316.75	2319.16	2321.57	2323.98	2326.39
797.8	2328.80	2331.21	2333.62	2336.03	2338.44	2340.85	2343.26	2345.67	2348.08	2350.49
797.9	2352.90	2355.31	2357.72	2360.13	2362.54	2364.95	2367.36	2369.77	2372.18	2374.59
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
798.0	2377.00	2379.62	2382.24	2384.86	2387.48	2390.10	2392.72	2395.34	2397.96	2400.58
798.1	2403.20	2405.82	2408.44	2411.06	2413.68	2416.30	2418.92	2421.54	2424.16	2426.78
798.2	2429.40	2432.02	2434.64	2437.26	2439.88	2442.50	2445.12	2447.74	2450.36	2452.98
798.3	2455.60	2458.22	2460.84	2463.46	2466.08	2468.70	2471.32	2473.94	2476.56	2479.18
798.4	2481.80	2484.42	2487.04	2489.66	2492.28	2494.90	2497.52	2500.14	2502.76	2505.38
798.5	2508.00	2510.62	2513.24	2515.86	2518.48	2521.10	2523.72	2526.34	2528.96	2531.58
798.6	2534.20	2536.82	2539.44	2542.06	2544.68	2547.30	2549.92	2552.54	2555.16	2557.78
798.7	2560.40	2563.02	2565.64	2568.26	2570.88	2573.50	2576.12	2578.74	2581.36	2583.98
798.8	2586.60	2589.22	2591.84	2594.46	2597.08	2599.70	2602.32	2604.94	2607.56	2610.18
798.9	2612.80	2615.42	2618.04	2620.66	2623.28	2625.90	2628.52	2631.14	2633.76	2636.38
799.0	2639.00	2641.86	2644.72	2647.58	2650.44	2653.30	2656.16	2659.02	2661.88	2664.74
799.1	2667.60	2670.46	2673.32	2676.18	2679.04	2681.90	2684.76	2687.62	2690.48	2693.34
799.2	2696.20	2699.06	2701.92	2704.78	2707.64	2710.50	2713.36	2716.22	2719.08	2721.94
799.3	2724.80	2727.66	2730.52	2733.38	2736.24	2739.10	2741.96	2744.82	2747.68	2750.54
799.4	2753.40	2756.26	2759.12	2761.98	2764.84	2767.70	2770.56	2773.42	2776.28	2779.14
799.5	2782.00	2784.86	2787.72	2790.58	2793.44	2796.30	2799.16	2802.02	2804.88	2807.74
799.6	2810.60	2813.46	2816.32	2819.18	2822.04	2824.90	2827.76	2830.62	2833.48	2836.34
799.7	2839.20	2842.06	2844.92	2847.78	2850.64	2853.50	2856.36	2859.22	2862.08	2864.94
799.8	2867.80	2870.66	2873.52	2876.38	2879.24	2882.10	2884.96	2887.82	2890.68	2893.54
799.9	2896.40	2899.26	2902.12	2904.98	2907.84	2910.70	2913.56	2916.42	2919.28	2922.14
800.0	2925.00	2928.12	2931.24	2934.36	2937.48	2940.60	2943.72	2946.84	2949.96	2953.08
800.1	2956.20	2959.32	2962.44	2965.56	2968.68	2971.80	2974.92	2978.04	2981.16	2984.28
800.2	2987.40	2990.52	2993.64	2996.76	2999.88	3003.00	3006.12	3009.24	3012.36	3015.48
800.3	3018.60	3021.72	3024.84	3027.96	3031.08	3034.20	3037.32	3040.44	3043.56	3046.68
800.4	3049.80	3052.92	3056.04	3059.16	3062.28	3065.40	3068.52	3071.64	3074.76	3077.88
800.5	3081.00	3084.12	3087.24	3090.36	3093.48	3096.60	3099.72	3102.84	3105.96	3109.08
800.6	3112.20	3115.32	3118.44	3121.56	3124.68	3127.80	3130.92	3134.04	3137.16	3140.28
800.7	3143.40	3146.52	3149.64	3152.76	3155.88	3159.00	3162.12	3165.24	3168.36	3171.48
800.8	3174.60	3177.72	3180.84	3183.96	3187.08	3190.20	3193.32	3196.44	3199.56	3202.68
800.9	3205.80	3208.92	3212.04	3215.16	3218.28	3221.40	3224.52	3227.64	3230.76	3233.88
801.0	3237.00	3240.37	3243.74	3247.11	3250.48	3253.85	3257.22	3260.59	3263.96	3267.33
801.1	3270.70	3274.07	3277.44	3280.81	3284.18	3287.55	3290.92	3294.29	3297.66	3301.03
801.2	3304.40	3307.77	3311.14	3314.51	3317.88	3321.25	3324.62	3327.99	3331.36	3334.73
801.3	3338.10	3341.47	3344.84	3348.21	3351.58	3354.95	3358.32	3361.69	3365.06	3368.43
801.4	3371.80	3375.17	3378.54	3381.91	3385.28	3388.65	3392.02	3395.39	3398.76	3402.13
801.5	3405.50	3408.87	3412.24	3415.61	3418.98	3422.35	3425.72	3429.09	3432.46	3435.83
801.6	3439.20	3442.57	3445.94	3449.31	3452.68	3456.05	3459.42	3462.79	3466.16	3469.53
801.7	3472.90	3476.27	3479.64	3483.01	3486.38	3489.75	3493.12	3496.49	3499.86	3503.23
801.8	3506.60	3509.97	3513.34	3516.71	3520.08	3523.45	3526.82	3530.19	3533.56	3536.93
801.9	3540.30	3543.67	3547.04	3550.41	3553.78	3557.15	3560.52	3563.89	3567.26	3570.63
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
802.0	3574.00	3577.61	3581.22	3584.83	3588.44	3592.05	3595.66	3599.27	3602.88	3606.49
802.1	3610.10	3613.71	3617.32	3620.93	3624.54	3628.15	3631.76	3635.37	3638.98	3642.59
802.2	3646.20	3649.81	3653.42	3657.03	3660.64	3664.25	3667.86	3671.47	3675.08	3678.69
802.3	3682.30	3685.91	3689.52	3693.13	3696.74	3700.35	3703.96	3707.57	3711.18	3714.79
802.4	3718.40	3722.01	3725.62	3729.23	3732.84	3736.45	3740.06	3743.67	3747.28	3750.89
802.5	3754.50	3758.11	3761.72	3765.33	3768.94	3772.55	3776.16	3779.77	3783.38	3786.99
802.6	3790.60	3794.21	3797.82	3801.43	3805.04	3808.65	3812.26	3815.87	3819.48	3823.09
802.7	3826.70	3830.31	3833.92	3837.53	3841.14	3844.75	3848.36	3851.97	3855.58	3859.19
802.8	3862.80	3866.41	3870.02	3873.63	3877.24	3880.85	3884.46	3888.07	3891.68	3895.29
802.9	3898.90	3902.51	3906.12	3909.73	3913.34	3916.95	3920.56	3924.17	3927.78	3931.39
803.0	3935.00	3938.90	3942.80	3946.70	3950.60	3954.50	3958.40	3962.30	3966.20	3970.10
803.1	3974.00	3977.90	3981.80	3985.70	3989.60	3993.50	3997.40	4001.30	4005.20	4009.10
803.2	4013.00	4016.90	4020.80	4024.70	4028.60	4032.50	4036.40	4040.30	4044.20	4048.10
803.3	4052.00	4055.90	4059.80	4063.70	4067.60	4071.50	4075.40	4079.30	4083.20	4087.10
803.4	4091.00	4094.90	4098.80	4102.70	4106.60	4110.50	4114.40	4118.30	4122.20	4126.10
803.5	4130.00	4133.90	4137.80	4141.70	4145.60	4149.50	4153.40	4157.30	4161.20	4165.10
803.6	4169.00	4172.90	4176.80	4180.70	4184.60	4188.50	4192.40	4196.30	4200.20	4204.10
803.7	4208.00	4211.90	4215.80	4219.70	4223.60	4227.50	4231.40	4235.30	4239.20	4243.10
803.8	4247.00	4250.90	4254.80	4258.70	4262.60	4266.50	4270.40	4274.30	4278.20	4282.10
803.9	4286.00	4289.90	4293.80	4297.70	4301.60	4305.50	4309.40	4313.30	4317.20	4321.10
804.0	4325.00	4329.22	4333.44	4337.66	4341.88	4346.10	4350.32	4354.54	4358.76	4362.98
804.1	4367.20	4371.42	4375.64	4379.86	4384.08	4388.30	4392.52	4396.74	4400.96	4405.18
804.2	4409.40	4413.62	4417.84	4422.06	4426.28	4430.50	4434.72	4438.94	4443.16	4447.38
804.3	4451.60	4455.82	4460.04	4464.26	4468.48	4472.70	4476.92	4481.14	4485.36	4489.58
804.4	4493.80	4498.02	4502.24	4506.46	4510.68	4514.90	4519.12	4523.34	4527.56	4531.78
804.5	4536.00	4540.22	4544.44	4548.66	4552.88	4557.10	4561.32	4565.54	4569.76	4573.98
804.6	4578.20	4582.42	4586.64	4590.86	4595.08	4599.30	4603.52	4607.74	4611.96	4616.18
804.7	4620.40	4624.62	4628.84	4633.06	4637.28	4641.50	4645.72	4649.94	4654.16	4658.38
804.8	4662.60	4666.82	4671.04	4675.26	4679.48	4683.70	4687.92	4692.14	4696.36	4700.58
804.9	4704.80	4709.02	4713.24	4717.46	4721.68	4725.90	4730.12	4734.34	4738.56	4742.78
805.0	4747.00	4751.55	4756.10	4760.65	4765.20	4769.75	4774.30	4778.85	4783.40	4787.95
805.1	4792.50	4797.05	4801.60	4806.15	4810.70	4815.25	4819.80	4824.35	4828.90	4833.45
805.2	4838.00	4842.55	4847.10	4851.65	4856.20	4860.75	4865.30	4869.85	4874.40	4878.95
805.3	4883.50	4888.05	4892.60	4897.15	4901.70	4906.25	4910.80	4915.35	4919.90	4924.45
805.4	4929.00	4933.55	4938.10	4942.65	4947.20	4951.75	4956.30	4960.85	4965.40	4969.95
805.5	4974.50	4979.05	4983.60	4988.15	4992.70	4997.25	5001.80	5006.35	5010.90	5015.45
805.6	5020.00	5024.55	5029.10	5033.65	5038.20	5042.75	5047.30	5051.85	5056.40	5060.95
805.7	5065.50	5070.05	5074.60	5079.15	5083.70	5088.25	5092.80	5097.35	5101.90	5106.45
805.8	5111.00	5115.55	5120.10	5124.65	5129.20	5133.75	5138.30	5142.85	5147.40	5151.95
805.9	5156.50	5161.05	5165.60	5170.15	5174.70	5179.25	5183.80	5188.35	5192.90	5197.45
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
806.0	5202.00	5206.85	5211.70	5216.55	5221.40	5226.25	5231.10	5235.95	5240.80	5245.65
806.1	5250.50	5255.35	5260.20	5265.05	5269.90	5274.75	5279.60	5284.45	5289.30	5294.15
806.2	5299.00	5303.85	5308.70	5313.55	5318.40	5323.25	5328.10	5332.95	5337.80	5342.65
806.3	5347.50	5352.35	5357.20	5362.05	5366.90	5371.75	5376.60	5381.45	5386.30	5391.15
806.4	5396.00	5400.85	5405.70	5410.55	5415.40	5420.25	5425.10	5429.95	5434.80	5439.65
806.5	5444.50	5449.35	5454.20	5459.05	5463.90	5468.75	5473.60	5478.45	5483.30	5488.15
806.6	5493.00	5497.85	5502.70	5507.55	5512.40	5517.25	5522.10	5526.95	5531.80	5536.65
806.7	5541.50	5546.35	5551.20	5556.05	5560.90	5565.75	5570.60	5575.45	5580.30	5585.15
806.8	5590.00	5594.85	5599.70	5604.55	5609.40	5614.25	5619.10	5623.95	5628.80	5633.65
806.9	5638.50	5643.35	5648.20	5653.05	5657.90	5662.75	5667.60	5672.45	5677.30	5682.15
807.0	5687.00	5692.18	5697.36	5702.54	5707.72	5712.90	5718.08	5723.26	5728.44	5733.62
807.1	5738.80	5743.98	5749.16	5754.34	5759.52	5764.70	5769.88	5775.06	5780.24	5785.42
807.2	5790.60	5795.78	5800.96	5806.14	5811.32	5816.50	5821.68	5826.86	5832.04	5837.22
807.3	5842.40	5847.58	5852.76	5857.94	5863.12	5868.30	5873.48	5878.66	5883.84	5889.02
807.4	5894.20	5899.38	5904.56	5909.74	5914.92	5920.10	5925.28	5930.46	5935.64	5940.82
807.5	5946.00	5951.18	5956.36	5961.54	5966.72	5971.90	5977.08	5982.26	5987.44	5992.62
807.6	5997.80	6002.98	6008.16	6013.34	6018.52	6023.70	6028.88	6034.06	6039.24	6044.42
807.7	6049.60	6054.78	6059.96	6065.14	6070.32	6075.50	6080.68	6085.86	6091.04	6096.22
807.8	6101.40	6106.58	6111.76	6116.94	6122.12	6127.30	6132.48	6137.66	6142.84	6148.02
807.9	6153.20	6158.38	6163.56	6168.74	6173.92	6179.10	6184.28	6189.46	6194.64	6199.82
808.0	6205.00	6210.49	6215.98	6221.47	6226.96	6232.45	6237.94	6243.43	6248.92	6254.41
808.1	6259.90	6265.39	6270.88	6276.37	6281.86	6287.35	6292.84	6298.33	6303.82	6309.31
808.2	6314.80	6320.29	6325.78	6331.27	6336.76	6342.25	6347.74	6353.23	6358.72	6364.21
808.3	6369.70	6375.19	6380.68	6386.17	6391.66	6397.15	6402.64	6408.13	6413.62	6419.11
808.4	6424.60	6430.09	6435.58	6441.07	6446.56	6452.05	6457.54	6463.03	6468.52	6474.01
808.5	6479.50	6484.99	6490.48	6495.97	6501.46	6506.95	6512.44	6517.93	6523.42	6528.91
808.6	6534.40	6539.89	6545.38	6550.87	6556.36	6561.85	6567.34	6572.83	6578.32	6583.81
808.7	6589.30	6594.79	6600.28	6605.77	6611.26	6616.75	6622.24	6627.73	6633.22	6638.71
808.8	6644.20	6649.69	6655.18	6660.67	6666.16	6671.65	6677.14	6682.63	6688.12	6693.61
808.9	6699.10	6704.59	6710.08	6715.57	6721.06	6726.55	6732.04	6737.53	6743.02	6748.51
809.0	6754.00	6759.81	6765.62	6771.43	6777.24	6783.05	6788.86	6794.67	6800.48	6806.29
809.1	6812.10	6817.91	6823.72	6829.53	6835.34	6841.15	6846.96	6852.77	6858.58	6864.39
809.2	6870.20	6876.01	6881.82	6887.63	6893.44	6899.25	6905.06	6910.87	6916.68	6922.49
809.3	6928.30	6934.11	6939.92	6945.73	6951.54	6957.35	6963.16	6968.97	6974.78	6980.59
809.4	6986.40	6992.21	6998.02	7003.83	7009.64	7015.45	7021.26	7027.07	7032.88	7038.69
809.5	7044.50	7050.31	7056.12	7061.93	7067.74	7073.55	7079.36	7085.17	7090.98	7096.79
809.6	7102.60	7108.41	7114.22	7120.03	7125.84	7131.65	7137.46	7143.27	7149.08	7154.89
809.7	7160.70	7166.51	7172.32	7178.13	7183.94	7189.75	7195.56	7201.37	7207.18	7212.99
809.8	7218.80	7224.61	7230.42	7236.23	7242.04	7247.85	7253.66	7259.47	7265.28	7271.09
809.9	7276.90	7282.71	7288.52	7294.33	7300.14	7305.95	7311.76	7317.57	7323.38	7329.19
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
810.0	7335.00	7341.20	7347.40	7353.60	7359.80	7366.00	7372.20	7378.40	7384.60	7390.80
810.1	7397.00	7403.20	7409.40	7415.60	7421.80	7428.00	7434.20	7440.40	7446.60	7452.80
810.2	7459.00	7465.20	7471.40	7477.60	7483.80	7490.00	7496.20	7502.40	7508.60	7514.80
810.3	7521.00	7527.20	7533.40	7539.60	7545.80	7552.00	7558.20	7564.40	7570.60	7576.80
810.4	7583.00	7589.20	7595.40	7601.60	7607.80	7614.00	7620.20	7626.40	7632.60	7638.80
810.5	7645.00	7651.20	7657.40	7663.60	7669.80	7676.00	7682.20	7688.40	7694.60	7700.80
810.6	7707.00	7713.20	7719.40	7725.60	7731.80	7738.00	7744.20	7750.40	7756.60	7762.80
810.7	7769.00	7775.20	7781.40	7787.60	7793.80	7800.00	7806.20	7812.40	7818.60	7824.80
810.8	7831.00	7837.20	7843.40	7849.60	7855.80	7862.00	7868.20	7874.40	7880.60	7886.80
810.9	7893.00	7899.20	7905.40	7911.60	7917.80	7924.00	7930.20	7936.40	7942.60	7948.80
811.0	7955.00	7961.61	7968.22	7974.83	7981.44	7988.05	7994.66	8001.27	8007.88	8014.49
811.1	8021.10	8027.71	8034.32	8040.93	8047.54	8054.15	8060.76	8067.37	8073.98	8080.59
811.2	8087.20	8093.81	8100.42	8107.03	8113.64	8120.25	8126.86	8133.47	8140.08	8146.69
811.3	8153.30	8159.91	8166.52	8173.13	8179.74	8186.35	8192.96	8199.57	8206.18	8212.79
811.4	8219.40	8226.01	8232.62	8239.23	8245.84	8252.45	8259.06	8265.67	8272.28	8278.89
811.5	8285.50	8292.11	8298.72	8305.33	8311.94	8318.55	8325.16	8331.77	8338.38	8344.99
811.6	8351.60	8358.21	8364.82	8371.43	8378.04	8384.65	8391.26	8397.87	8404.48	8411.09
811.7	8417.70	8424.31	8430.92	8437.53	8444.14	8450.75	8457.36	8463.97	8470.58	8477.19
811.8	8483.80	8490.41	8497.02	8503.63	8510.24	8516.85	8523.46	8530.07	8536.68	8543.29
811.9	8549.90	8556.51	8563.12	8569.73	8576.34	8582.95	8589.56	8596.17	8602.78	8609.39
812.0	8616.00	8623.05	8630.10	8637.15	8644.20	8651.25	8658.30	8665.35	8672.40	8679.45
812.1	8686.50	8693.55	8700.60	8707.65	8714.70	8721.75	8728.80	8735.85	8742.90	8749.95
812.2	8757.00	8764.05	8771.10	8778.15	8785.20	8792.25	8799.30	8806.35	8813.40	8820.45
812.3	8827.50	8834.55	8841.60	8848.65	8855.70	8862.75	8869.80	8876.85	8883.90	8890.95
812.4	8898.00	8905.05	8912.10	8919.15	8926.20	8933.25	8940.30	8947.35	8954.40	8961.45
812.5	8968.50	8975.55	8982.60	8989.65	8996.70	9003.75	9010.80	9017.85	9024.90	9031.95
812.6	9039.00	9046.05	9053.10	9060.15	9067.20	9074.25	9081.30	9088.35	9095.40	9102.45
812.7	9109.50	9116.55	9123.60	9130.65	9137.70	9144.75	9151.80	9158.85	9165.90	9172.95
812.8	9180.00	9187.05	9194.10	9201.15	9208.20	9215.25	9222.30	9229.35	9236.40	9243.45
812.9	9250.50	9257.55	9264.60	9271.65	9278.70	9285.75	9292.80	9299.85	9306.90	9313.95
813.0	9321.00	9328.48	9335.96	9343.44	9350.92	9358.40	9365.88	9373.36	9380.84	9388.32
813.1	9395.80	9403.28	9410.76	9418.24	9425.72	9433.20	9440.68	9448.16	9455.64	9463.12
813.2	9470.60	9478.08	9485.56	9493.04	9500.52	9508.00	9515.48	9522.96	9530.44	9537.92
813.3	9545.40	9552.88	9560.36	9567.84	9575.32	9582.80	9590.28	9597.76	9605.24	9612.72
813.4	9620.20	9627.68	9635.16	9642.64	9650.12	9657.60	9665.08	9672.56	9680.04	9687.52
813.5	9695.00	9702.48	9709.96	9717.44	9724.92	9732.40	9739.88	9747.36	9754.84	9762.32
813.6	9769.80	9777.28	9784.76	9792.24	9799.72	9807.20	9814.68	9822.16	9829.64	9837.12
813.7	9844.60	9852.08	9859.56	9867.04	9874.52	9882.00	9889.48	9896.96	9904.44	9911.92
813.8	9919.40	9926.88	9934.36	9941.84	9949.32	9956.80	9964.28	9971.76	9979.24	9986.72
813.9	9994.20	10001.68	10009.16	10016.64	10024.12	10031.60	10039.08	10046.56	10054.04	10061.52
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
814.0	10069.00	10076.94	10084.88	10092.82	10100.76	10108.70	10116.64	10124.58	10132.52	10140.46
814.1	10148.40	10156.34	10164.28	10172.22	10180.16	10188.10	10196.04	10203.98	10211.92	10219.86
814.2	10227.80	10235.74	10243.68	10251.62	10259.56	10267.50	10275.44	10283.38	10291.32	10299.26
814.3	10307.20	10315.14	10323.08	10331.02	10338.96	10346.90	10354.84	10362.78	10370.72	10378.66
814.4	10386.60	10394.54	10402.48	10410.42	10418.36	10426.30	10434.24	10442.18	10450.12	10458.06
814.5	10466.00	10473.94	10481.88	10489.82	10497.76	10505.70	10513.64	10521.58	10529.52	10537.46
814.6	10545.40	10553.34	10561.28	10569.22	10577.16	10585.10	10593.04	10600.98	10608.92	10616.86
814.7	10624.80	10632.74	10640.68	10648.62	10656.56	10664.50	10672.44	10680.38	10688.32	10696.26
814.8	10704.20	10712.14	10720.08	10728.02	10735.96	10743.90	10751.84	10759.78	10767.72	10775.66
814.9	10783.60	10791.54	10799.48	10807.42	10815.36	10823.30	10831.24	10839.18	10847.12	10855.06
815.0	10863.00	10871.37	10879.74	10888.11	10896.48	10904.85	10913.22	10921.59	10929.96	10938.33
815.1	10946.70	10955.07	10963.44	10971.81	10980.18	10988.55	10996.92	11005.29	11013.66	11022.03
815.2	11030.40	11038.77	11047.14	11055.51	11063.88	11072.25	11080.62	11088.99	11097.36	11105.73
815.3	11114.10	11122.47	11130.84	11139.21	11147.58	11155.95	11164.32	11172.69	11181.06	11189.43
815.4	11197.80	11206.17	11214.54	11222.91	11231.28	11239.65	11248.02	11256.39	11264.76	11273.13
815.5	11281.50	11289.87	11298.24	11306.61	11314.98	11323.35	11331.72	11340.09	11348.46	11356.83
815.6	11365.20	11373.57	11381.94	11390.31	11398.68	11407.05	11415.42	11423.79	11432.16	11440.53
815.7	11448.90	11457.27	11465.64	11474.01	11482.38	11490.75	11499.12	11507.49	11515.86	11524.23
815.8	11532.60	11540.97	11549.34	11557.71	11566.08	11574.45	11582.82	11591.19	11599.56	11607.93
815.9	11616.30	11624.67	11633.04	11641.41	11649.78	11658.15	11666.52	11674.89	11683.26	11691.63
816.0	11700.00	11708.82	11717.64	11726.46	11735.28	11744.10	11752.92	11761.74	11770.56	11779.38
816.1	11788.20	11797.02	11805.84	11814.66	11823.48	11832.30	11841.12	11849.94	11858.76	11867.58
816.2	11876.40	11885.22	11894.04	11902.86	11911.68	11920.50	11929.32	11938.14	11946.96	11955.78
816.3	11964.60	11973.42	11982.24	11991.06	11999.88	12008.70	12017.52	12026.34	12035.16	12043.98
816.4	12052.80	12061.62	12070.44	12079.26	12088.08	12096.90	12105.72	12114.54	12123.36	12132.18
816.5	12141.00	12149.82	12158.64	12167.46	12176.28	12185.10	12193.92	12202.74	12211.56	12220.38
816.6	12229.20	12238.02	12246.84	12255.66	12264.48	12273.30	12282.12	12290.94	12299.76	12308.58
816.7	12317.40	12326.22	12335.04	12343.86	12352.68	12361.50	12370.32	12379.14	12387.96	12396.78
816.8	12405.60	12414.42	12423.24	12432.06	12440.88	12449.70	12458.52	12467.34	12476.16	12484.98
816.9	12493.80	12502.62	12511.44	12520.26	12529.08	12537.90	12546.72	12555.54	12564.36	12573.18
817.0	12582.00	12591.26	12600.52	12609.78	12619.04	12628.30	12637.56	12646.82	12656.08	12665.34
817.1	12674.60	12683.86	12693.12	12702.38	12711.64	12720.90	12730.16	12739.42	12748.68	12757.94
817.2	12767.20	12776.46	12785.72	12794.98	12804.24	12813.50	12822.76	12832.02	12841.28	12850.54
817.3	12859.80	12869.06	12878.32	12887.58	12896.84	12906.10	12915.36	12924.62	12933.88	12943.14
817.4	12952.40	12961.66	12970.92	12980.18	12989.44	12998.70	13007.96	13017.22	13026.48	13035.74
817.5	13045.00	13054.26	13063.52	13072.78	13082.04	13091.30	13100.56	13109.82	13119.08	13128.34
817.6	13137.60	13146.86	13156.12	13165.38	13174.64	13183.90	13193.16	13202.42	13211.68	13220.94
817.7	13230.20	13239.46	13248.72	13257.98	13267.24	13276.50	13285.76	13295.02	13304.28	13313.54
817.8	13322.80	13332.06	13341.32	13350.58	13359.84	13369.10	13378.36	13387.62	13396.88	13406.14
817.9	13415.40	13424.66	13433.92	13443.18	13452.44	13461.70	13470.96	13480.22	13489.48	13498.74
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
818.0	13508.00	13517.70	13527.40	13537.10	13546.80	13556.50	13566.20	13575.90	13585.60	13595.30
818.1	13605.00	13614.70	13624.40	13634.10	13643.80	13653.50	13663.20	13672.90	13682.60	13692.30
818.2	13702.00	13711.70	13721.40	13731.10	13740.80	13750.50	13760.20	13769.90	13779.60	13789.30
818.3	13799.00	13808.70	13818.40	13828.10	13837.80	13847.50	13857.20	13866.90	13876.60	13886.30
818.4	13896.00	13905.70	13915.40	13925.10	13934.80	13944.50	13954.20	13963.90	13973.60	13983.30
818.5	13993.00	14002.70	14012.40	14022.10	14031.80	14041.50	14051.20	14060.90	14070.60	14080.30
818.6	14090.00	14099.70	14109.40	14119.10	14128.80	14138.50	14148.20	14157.90	14167.60	14177.30
818.7	14187.00	14196.70	14206.40	14216.10	14225.80	14235.50	14245.20	14254.90	14264.60	14274.30
818.8	14284.00	14293.70	14303.40	14313.10	14322.80	14332.50	14342.20	14351.90	14361.60	14371.30
818.9	14381.00	14390.70	14400.40	14410.10	14419.80	14429.50	14439.20	14448.90	14458.60	14468.30
819.0	14478.00	14488.14	14498.28	14508.42	14518.56	14528.70	14538.84	14548.98	14559.12	14569.26
819.1	14579.40	14589.54	14599.68	14609.82	14619.96	14630.10	14640.24	14650.38	14660.52	14670.66
819.2	14680.80	14690.94	14701.08	14711.22	14721.36	14731.50	14741.64	14751.78	14761.92	14772.06
819.3	14782.20	14792.34	14802.48	14812.62	14822.76	14832.90	14843.04	14853.18	14863.32	14873.46
819.4	14883.60	14893.74	14903.88	14914.02	14924.16	14934.30	14944.44	14954.58	14964.72	14974.86
819.5	14985.00	14995.14	15005.28	15015.42	15025.56	15035.70	15045.84	15055.98	15066.12	15076.26
819.6	15086.40	15096.54	15106.68	15116.82	15126.96	15137.10	15147.24	15157.38	15167.52	15177.66
819.7	15187.80	15197.94	15208.08	15218.22	15228.36	15238.50	15248.64	15258.78	15268.92	15279.06
819.8	15289.20	15299.34	15309.48	15319.62	15329.76	15339.90	15350.04	15360.18	15370.32	15380.46
819.9	15390.60	15400.74	15410.88	15421.02	15431.16	15441.30	15451.44	15461.58	15471.72	15481.86
820.0	15492.00	15502.57	15513.14	15523.71	15534.28	15544.85	15555.42	15565.99	15576.56	15587.13
820.1	15597.70	15608.27	15618.84	15629.41	15639.98	15650.55	15661.12	15671.69	15682.26	15692.83
820.2	15703.40	15713.97	15724.54	15735.11	15745.68	15756.25	15766.82	15777.39	15787.96	15798.53
820.3	15809.10	15819.67	15830.24	15840.81	15851.38	15861.95	15872.52	15883.09	15893.66	15904.23
820.4	15914.80	15925.37	15935.94	15946.51	15957.08	15967.65	15978.22	15988.79	15999.36	16009.93
820.5	16020.50	16031.07	16041.64	16052.21	16062.78	16073.35	16083.92	16094.49	16105.06	16115.63
820.6	16126.20	16136.77	16147.34	16157.91	16168.48	16179.05	16189.62	16200.19	16210.76	16221.33
820.7	16231.90	16242.47	16253.04	16263.61	16274.18	16284.75	16295.32	16305.89	16316.46	16327.03
820.8	16337.60	16348.17	16358.74	16369.31	16379.88	16390.45	16401.02	16411.59	16422.16	16432.73
820.9	16443.30	16453.87	16464.44	16475.01	16485.58	16496.15	16506.72	16517.29	16527.86	16538.43
821.0	16549.00	16559.97	16570.94	16581.91	16592.88	16603.85	16614.82	16625.79	16636.76	16647.73
821.1	16658.70	16669.67	16680.64	16691.61	16702.58	16713.55	16724.52	16735.49	16746.46	16757.43
821.2	16768.40	16779.37	16790.34	16801.31	16812.28	16823.25	16834.22	16845.19	16856.16	16867.13
821.3	16878.10	16889.07	16900.04	16911.01	16921.98	16932.95	16943.92	16954.89	16965.86	16976.83
821.4	16987.80	16998.77	17009.74	17020.71	17031.68	17042.65	17053.62	17064.59	17075.56	17086.53
821.5	17097.50	17108.47	17119.44	17130.41	17141.38	17152.35	17163.32	17174.29	17185.26	17196.23
821.6	17207.20	17218.17	17229.14	17240.11	17251.08	17262.05	17273.02	17283.99	17294.96	17305.93
821.7	17316.90	17327.87	17338.84	17349.81	17360.78	17371.75	17382.72	17393.69	17404.66	17415.63
821.8	17426.60	17437.57	17448.54	17459.51	17470.48	17481.45	17492.42	17503.39	17514.36	17525.33
821.9	17536.30	17547.27	17558.24	17569.21	17580.18	17591.15	17602.12	17613.09	17624.06	17635.03
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
822.0	17646.00	17657.37	17668.74	17680.11	17691.48	17702.85	17714.22	17725.59	17736.96	17748.33
822.1	17759.70	17771.07	17782.44	17793.81	17805.18	17816.55	17827.92	17839.29	17850.66	17862.03
822.2	17873.40	17884.77	17896.14	17907.51	17918.88	17930.25	17941.62	17952.99	17964.36	17975.73
822.3	17987.10	17998.47	18009.84	18021.21	18032.58	18043.95	18055.32	18066.69	18078.06	18089.43
822.4	18100.80	18112.17	18123.54	18134.91	18146.28	18157.65	18169.02	18180.39	18191.76	18203.13
822.5	18214.50	18225.87	18237.24	18248.61	18259.98	18271.35	18282.72	18294.09	18305.46	18316.83
822.6	18328.20	18339.57	18350.94	18362.31	18373.68	18385.05	18396.42	18407.79	18419.16	18430.53
822.7	18441.90	18453.27	18464.64	18476.01	18487.38	18498.75	18510.12	18521.49	18532.86	18544.23
822.8	18555.60	18566.97	18578.34	18589.71	18601.08	18612.45	18623.82	18635.19	18646.56	18657.93
822.9	18669.30	18680.67	18692.04	18703.41	18714.78	18726.15	18737.52	18748.89	18760.26	18771.63
823.0	18783.00	18794.78	18806.56	18818.34	18830.12	18841.90	18853.68	18865.46	18877.24	18889.02
823.1	18900.80	18912.58	18924.36	18936.14	18947.92	18959.70	18971.48	18983.26	18995.04	19006.82
823.2	19018.60	19030.38	19042.16	19053.94	19065.72	19077.50	19089.28	19101.06	19112.84	19124.62
823.3	19136.40	19148.18	19159.96	19171.74	19183.52	19195.30	19207.08	19218.86	19230.64	19242.42
823.4	19254.20	19265.98	19277.76	19289.54	19301.32	19313.10	19324.88	19336.66	19348.44	19360.22
823.5	19372.00	19383.78	19395.56	19407.34	19419.12	19430.90	19442.68	19454.46	19466.24	19478.02
823.6	19489.80	19501.58	19513.36	19525.14	19536.92	19548.70	19560.48	19572.26	19584.04	19595.82
823.7	19607.60	19619.38	19631.16	19642.94	19654.72	19666.50	19678.28	19690.06	19701.84	19713.62
823.8	19725.40	19737.18	19748.96	19760.74	19772.52	19784.30	19796.08	19807.86	19819.64	19831.42
823.9	19843.20	19854.98	19866.76	19878.54	19890.32	19902.10	19913.88	19925.66	19937.44	19949.22
824.0	19961.00	19973.20	19985.40	19997.60	20009.80	20022.00	20034.20	20046.40	20058.60	20070.80
824.1	20083.00	20095.20	20107.40	20119.60	20131.80	20144.00	20156.20	20168.40	20180.60	20192.80
824.2	20205.00	20217.20	20229.40	20241.60	20253.80	20266.00	20278.20	20290.40	20302.60	20314.80
824.3	20327.00	20339.20	20351.40	20363.60	20375.80	20388.00	20400.20	20412.40	20424.60	20436.80
824.4	20449.00	20461.20	20473.40	20485.60	20497.80	20510.00	20522.20	20534.40	20546.60	20558.80
824.5	20571.00	20583.20	20595.40	20607.60	20619.80	20632.00	20644.20	20656.40	20668.60	20680.80
824.6	20693.00	20705.20	20717.40	20729.60	20741.80	20754.00	20766.20	20778.40	20790.60	20802.80
824.7	20815.00	20827.20	20839.40	20851.60	20863.80	20876.00	20888.20	20900.40	20912.60	20924.80
824.8	20937.00	20949.20	20961.40	20973.60	20985.80	20998.00	21010.20	21022.40	21034.60	21046.80
824.9	21059.00	21071.20	21083.40	21095.60	21107.80	21120.00	21132.20	21144.40	21156.60	21168.80
825.0	21181.00	21193.66	21206.32	21218.98	21231.64	21244.30	21256.96	21269.62	21282.28	21294.94
825.1	21307.60	21320.26	21332.92	21345.58	21358.24	21370.90	21383.56	21396.22	21408.88	21421.54
825.2	21434.20	21446.86	21459.52	21472.18	21484.84	21497.50	21510.16	21522.82	21535.48	21548.14
825.3	21560.80	21573.46	21586.12	21598.78	21611.44	21624.10	21636.76	21649.42	21662.08	21674.74
825.4	21687.40	21700.06	21712.72	21725.38	21738.04	21750.70	21763.36	21776.02	21788.68	21801.34
825.5	21814.00	21826.66	21839.32	21851.98	21864.64	21877.30	21889.96	21902.62	21915.28	21927.94
825.6	21940.60	21953.26	21965.92	21978.58	21991.24	22003.90	22016.56	22029.22	22041.88	22054.54
825.7	22067.20	22079.86	22092.52	22105.18	22117.84	22130.50	22143.16	22155.82	22168.48	22181.14
825.8	22193.80	22206.46	22219.12	22231.78	22244.44	22257.10	22269.76	22282.42	22295.08	22307.74
825.9	22320.40	22333.06	22345.72	22358.38	22371.04	22383.70	22396.36	22409.02	22421.68	22434.34
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
826.0	22447.00	22460.12	22473.24	22486.36	22499.48	22512.60	22525.72	22538.84	22551.96	22565.08
826.1	22578.20	22591.32	22604.44	22617.56	22630.68	22643.80	22656.92	22670.04	22683.16	22696.28
826.2	22709.40	22722.52	22735.64	22748.76	22761.88	22775.00	22788.12	22801.24	22814.36	22827.48
826.3	22840.60	22853.72	22866.84	22879.96	22893.08	22906.20	22919.32	22932.44	22945.56	22958.68
826.4	22971.80	22984.92	22998.04	23011.16	23024.28	23037.40	23050.52	23063.64	23076.76	23089.88
826.5	23103.00	23116.12	23129.24	23142.36	23155.48	23168.60	23181.72	23194.84	23207.96	23221.08
826.6	23234.20	23247.32	23260.44	23273.56	23286.68	23299.80	23312.92	23326.04	23339.16	23352.28
826.7	23365.40	23378.52	23391.64	23404.76	23417.88	23431.00	23444.12	23457.24	23470.36	23483.48
826.8	23496.60	23509.72	23522.84	23535.96	23549.08	23562.20	23575.32	23588.44	23601.56	23614.68
826.9	23627.80	23640.92	23654.04	23667.16	23680.28	23693.40	23706.52	23719.64	23732.76	23745.88
827.0	23759.00	23772.64	23786.28	23799.92	23813.56	23827.20	23840.84	23854.48	23868.12	23881.76
827.1	23895.40	23909.04	23922.68	23936.32	23949.96	23963.60	23977.24	23990.88	24004.52	24018.16
827.2	24031.80	24045.44	24059.08	24072.72	24086.36	24100.00	24113.64	24127.28	24140.92	24154.56
827.3	24168.20	24181.84	24195.48	24209.12	24222.76	24236.40	24250.04	24263.68	24277.32	24290.96
827.4	24304.60	24318.24	24331.88	24345.52	24359.16	24372.80	24386.44	24400.08	24413.72	24427.36
827.5	24441.00	24454.64	24468.28	24481.92	24495.56	24509.20	24522.84	24536.48	24550.12	24563.76
827.6	24577.40	24591.04	24604.68	24618.32	24631.96	24645.60	24659.24	24672.88	24686.52	24700.16
827.7	24713.80	24727.44	24741.08	24754.72	24768.36	24782.00	24795.64	24809.28	24822.92	24836.56
827.8	24850.20	24863.84	24877.48	24891.12	24904.76	24918.40	24932.04	24945.68	24959.32	24972.96
827.9	24986.60	25000.24	25013.88	25027.52	25041.16	25054.80	25068.44	25082.08	25095.72	25109.36
828.0	25123.00	25137.27	25151.54	25165.81	25180.08	25194.35	25208.62	25222.89	25237.16	25251.43
828.1	25265.70	25279.97	25294.24	25308.51	25322.78	25337.05	25351.32	25365.59	25379.86	25394.13
828.2	25408.40	25422.67	25436.94	25451.21	25465.48	25479.75	25494.02	25508.29	25522.56	25536.83
828.3	25551.10	25565.37	25579.64	25593.91	25608.18	25622.45	25636.72	25650.99	25665.26	25679.53
828.4	25693.80	25708.07	25722.34	25736.61	25750.88	25765.15	25779.42	25793.69	25807.96	25822.23
828.5	25836.50	25850.77	25865.04	25879.31	25893.58	25907.85	25922.12	25936.39	25950.66	25964.93
828.6	25979.20	25993.47	26007.74	26022.01	26036.28	26050.55	26064.82	26079.09	26093.36	26107.63
828.7	26121.90	26136.17	26150.44	26164.71	26178.98	26193.25	26207.52	26221.79	26236.06	26250.33
828.8	26264.60	26278.87	26293.14	26307.41	26321.68	26335.95	26350.22	26364.49	26378.76	26393.03
828.9	26407.30	26421.57	26435.84	26450.11	26464.38	26478.65	26492.92	26507.19	26521.46	26535.73
829.0	26550.00	26564.90	26579.80	26594.70	26609.60	26624.50	26639.40	26654.30	26669.20	26684.10
829.1	26699.00	26713.90	26728.80	26743.70	26758.60	26773.50	26788.40	26803.30	26818.20	26833.10
829.2	26848.00	26862.90	26877.80	26892.70	26907.60	26922.50	26937.40	26952.30	26967.20	26982.10
829.3	26997.00	27011.90	27026.80	27041.70	27056.60	27071.50	27086.40	27101.30	27116.20	27131.10
829.4	27146.00	27160.90	27175.80	27190.70	27205.60	27220.50	27235.40	27250.30	27265.20	27280.10
829.5	27295.00	27309.90	27324.80	27339.70	27354.60	27369.50	27384.40	27399.30	27414.20	27429.10
829.6	27444.00	27458.90	27473.80	27488.70	27503.60	27518.50	27533.40	27548.30	27563.20	27578.10
829.7	27593.00	27607.90	27622.80	27637.70	27652.60	27667.50	27682.40	27697.30	27712.20	27727.10
829.8	27742.00	27756.90	27771.80	27786.70	27801.60	27816.50	27831.40	27846.30	27861.20	27876.10
829.9	27891.00	27905.90	27920.80	27935.70	27950.60	27965.50	27980.40	27995.30	28010.20	28025.10
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
830.0	28040.00	28055.52	28071.04	28086.56	28102.08	28117.60	28133.12	28148.64	28164.16	28179.68
830.1	28195.20	28210.72	28226.24	28241.76	28257.28	28272.80	28288.32	28303.84	28319.36	28334.88
830.2	28350.40	28365.92	28381.44	28396.96	28412.48	28428.00	28443.52	28459.04	28474.56	28490.08
830.3	28505.60	28521.12	28536.64	28552.16	28567.68	28583.20	28598.72	28614.24	28629.76	28645.28
830.4	28660.80	28676.32	28691.84	28707.36	28722.88	28738.40	28753.92	28769.44	28784.96	28800.48
830.5	28816.00	28831.52	28847.04	28862.56	28878.08	28893.60	28909.12	28924.64	28940.16	28955.68
830.6	28971.20	28986.72	29002.24	29017.76	29033.28	29048.80	29064.32	29079.84	29095.36	29110.88
830.7	29126.40	29141.92	29157.44	29172.96	29188.48	29204.00	29219.52	29235.04	29250.56	29266.08
830.8	29281.60	29297.12	29312.64	29328.16	29343.68	29359.20	29374.72	29390.24	29405.76	29421.28
830.9	29436.80	29452.32	29467.84	29483.36	29498.88	29514.40	29529.92	29545.44	29560.96	29576.48
831.0	29592.00	29608.13	29624.26	29640.39	29656.52	29672.65	29688.78	29704.91	29721.04	29737.17
831.1	29753.30	29769.43	29785.56	29801.69	29817.82	29833.95	29850.08	29866.21	29882.34	29898.47
831.2	29914.60	29930.73	29946.86	29962.99	29979.12	29995.25	30011.38	30027.51	30043.64	30059.77
831.3	30075.90	30092.03	30108.16	30124.29	30140.42	30156.55	30172.68	30188.81	30204.94	30221.07
831.4	30237.20	30253.33	30269.46	30285.59	30301.72	30317.85	30333.98	30350.11	30366.24	30382.37
831.5	30398.50	30414.63	30430.76	30446.89	30463.02	30479.15	30495.28	30511.41	30527.54	30543.67
831.6	30559.80	30575.93	30592.06	30608.19	30624.32	30640.45	30656.58	30672.71	30688.84	30704.97
831.7	30721.10	30737.23	30753.36	30769.49	30785.62	30801.75	30817.88	30834.01	30850.14	30866.27
831.8	30882.40	30898.53	30914.66	30930.79	30946.92	30963.05	30979.18	30995.31	31011.44	31027.57
831.9	31043.70	31059.83	31075.96	31092.09	31108.22	31124.35	31140.48	31156.61	31172.74	31188.87
832.0	31205.00	31221.71	31238.42	31255.13	31271.84	31288.55	31305.26	31321.97	31338.68	31355.39
832.1	31372.10	31388.81	31405.52	31422.23	31438.94	31455.65	31472.36	31489.07	31505.78	31522.49
832.2	31539.20	31555.91	31572.62	31589.33	31606.04	31622.75	31639.46	31656.17	31672.88	31689.59
832.3	31706.30	31723.01	31739.72	31756.43	31773.14	31789.85	31806.56	31823.27	31839.98	31856.69
832.4	31873.40	31890.11	31906.82	31923.53	31940.24	31956.95	31973.66	31990.37	32007.08	32023.79
832.5	32040.50	32057.21	32073.92	32090.63	32107.34	32124.05	32140.76	32157.47	32174.18	32190.89
832.6	32207.60	32224.31	32241.02	32257.73	32274.44	32291.15	32307.86	32324.57	32341.28	32357.99
832.7	32374.70	32391.41	32408.12	32424.83	32441.54	32458.25	32474.96	32491.67	32508.38	32525.09
832.8	32541.80	32558.51	32575.22	32591.93	32608.64	32625.35	32642.06	32658.77	32675.48	32692.19
832.9	32708.90	32725.61	32742.32	32759.03	32775.74	32792.45	32809.16	32825.87	32842.58	32859.29
833.0	32876.00	32893.20	32910.40	32927.60	32944.80	32962.00	32979.20	32996.40	33013.60	33030.80
833.1	33048.00	33065.20	33082.40	33099.60	33116.80	33134.00	33151.20	33168.40	33185.60	33202.80
833.2	33220.00	33237.20	33254.40	33271.60	33288.80	33306.00	33323.20	33340.40	33357.60	33374.80
833.3	33392.00	33409.20	33426.40	33443.60	33460.80	33478.00	33495.20	33512.40	33529.60	33546.80
833.4	33564.00	33581.20	33598.40	33615.60	33632.80	33650.00	33667.20	33684.40	33701.60	33718.80
833.5	33736.00	33753.20	33770.40	33787.60	33804.80	33822.00	33839.20	33856.40	33873.60	33890.80
833.6	33908.00	33925.20	33942.40	33959.60	33976.80	33994.00	34011.20	34028.40	34045.60	34062.80
833.7	34080.00	34097.20	34114.40	34131.60	34148.80	34166.00	34183.20	34200.40	34217.60	34234.80
833.8	34252.00	34269.20	34286.40	34303.60	34320.80	34338.00	34355.20	34372.40	34389.60	34406.80
833.9	34424.00	34441.20	34458.40	34475.60	34492.80	34510.00	34527.20	34544.40	34561.60	34578.80
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
834.0	34596.00	34613.68	34631.36	34649.04	34666.72	34684.40	34702.08	34719.76	34737.44	34755.12
834.1	34772.80	34790.48	34808.16	34825.84	34843.52	34861.20	34878.88	34896.56	34914.24	34931.92
834.2	34949.60	34967.28	34984.96	35002.64	35020.32	35038.00	35055.68	35073.36	35091.04	35108.72
834.3	35126.40	35144.08	35161.76	35179.44	35197.12	35214.80	35232.48	35250.16	35267.84	35285.52
834.4	35303.20	35320.88	35338.56	35356.24	35373.92	35391.60	35409.28	35426.96	35444.64	35462.32
834.5	35480.00	35497.68	35515.36	35533.04	35550.72	35568.40	35586.08	35603.76	35621.44	35639.12
834.6	35656.80	35674.48	35692.16	35709.84	35727.52	35745.20	35762.88	35780.56	35798.24	35815.92
834.7	35833.60	35851.28	35868.96	35886.64	35904.32	35922.00	35939.68	35957.36	35975.04	35992.72
834.8	36010.40	36028.08	36045.76	36063.44	36081.12	36098.80	36116.48	36134.16	36151.84	36169.52
834.9	36187.20	36204.88	36222.56	36240.24	36257.92	36275.60	36293.28	36310.96	36328.64	36346.32
835.0	36364.00	36382.19	36400.38	36418.57	36436.76	36454.95	36473.14	36491.33	36509.52	36527.71
835.1	36545.90	36564.09	36582.28	36600.47	36618.66	36636.85	36655.04	36673.23	36691.42	36709.61
835.2	36727.80	36745.99	36764.18	36782.37	36800.56	36818.75	36836.94	36855.13	36873.32	36891.51
835.3	36909.70	36927.89	36946.08	36964.27	36982.46	37000.65	37018.84	37037.03	37055.22	37073.41
835.4	37091.60	37109.79	37127.98	37146.17	37164.36	37182.55	37200.74	37218.93	37237.12	37255.31
835.5	37273.50	37291.69	37309.88	37328.07	37346.26	37364.45	37382.64	37400.83	37419.02	37437.21
835.6	37455.40	37473.59	37491.78	37509.97	37528.16	37546.35	37564.54	37582.73	37600.92	37619.11
835.7	37637.30	37655.49	37673.68	37691.87	37710.06	37728.25	37746.44	37764.63	37782.82	37801.01
835.8	37819.20	37837.39	37855.58	37873.77	37891.96	37910.15	37928.34	37946.53	37964.72	37982.91
835.9	38001.10	38019.29	38037.48	38055.67	38073.86	38092.05	38110.24	38128.43	38146.62	38164.81
836.0	38183.00	38201.72	38220.44	38239.16	38257.88	38276.60	38295.32	38314.04	38332.76	38351.48
836.1	38370.20	38388.92	38407.64	38426.36	38445.08	38463.80	38482.52	38501.24	38519.96	38538.68
836.2	38557.40	38576.12	38594.84	38613.56	38632.28	38651.00	38669.72	38688.44	38707.16	38725.88
836.3	38744.60	38763.32	38782.04	38800.76	38819.48	38838.20	38856.92	38875.64	38894.36	38913.08
836.4	38931.80	38950.52	38969.24	38987.96	39006.68	39025.40	39044.12	39062.84	39081.56	39100.28
836.5	39119.00	39137.72	39156.44	39175.16	39193.88	39212.60	39231.32	39250.04	39268.76	39287.48
836.6	39306.20	39324.92	39343.64	39362.36	39381.08	39399.80	39418.52	39437.24	39455.96	39474.68
836.7	39493.40	39512.12	39530.84	39549.56	39568.28	39587.00	39605.72	39624.44	39643.16	39661.88
836.8	39680.60	39699.32	39718.04	39736.76	39755.48	39774.20	39792.92	39811.64	39830.36	39849.08
836.9	39867.80	39886.52	39905.24	39923.96	39942.68	39961.40	39980.12	39998.84	40017.56	40036.28
837.0	40055.00	40074.25	40093.50	40112.75	40132.00	40151.25	40170.50	40189.75	40209.00	40228.25
837.1	40247.50	40266.75	40286.00	40305.25	40324.50	40343.75	40363.00	40382.25	40401.50	40420.75
837.2	40440.00	40459.25	40478.50	40497.75	40517.00	40536.25	40555.50	40574.75	40594.00	40613.25
837.3	40632.50	40651.75	40671.00	40690.25	40709.50	40728.75	40748.00	40767.25	40786.50	40805.75
837.4	40825.00	40844.25	40863.50	40882.75	40902.00	40921.25	40940.50	40959.75	40979.00	40998.25
837.5	41017.50	41036.75	41056.00	41075.25	41094.50	41113.75	41133.00	41152.25	41171.50	41190.75
837.6	41210.00	41229.25	41248.50	41267.75	41287.00	41306.25	41325.50	41344.75	41364.00	41383.25
837.7	41402.50	41421.75	41441.00	41460.25	41479.50	41498.75	41518.00	41537.25	41556.50	41575.75
837.8	41595.00	41614.25	41633.50	41652.75	41672.00	41691.25	41710.50	41729.75	41749.00	41768.25
837.9	41787.50	41806.75	41826.00	41845.25	41864.50	41883.75	41903.00	41922.25	41941.50	41960.75
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
838.0	41980.00	41999.82	42019.64	42039.46	42059.28	42079.10	42098.92	42118.74	42138.56	42158.38
838.1	42178.20	42198.02	42217.84	42237.66	42257.48	42277.30	42297.12	42316.94	42336.76	42356.58
838.2	42376.40	42396.22	42416.04	42435.86	42455.68	42475.50	42495.32	42515.14	42534.96	42554.78
838.3	42574.60	42594.42	42614.24	42634.06	42653.88	42673.70	42693.52	42713.34	42733.16	42752.98
838.4	42772.80	42792.62	42812.44	42832.26	42852.08	42871.90	42891.72	42911.54	42931.36	42951.18
838.5	42971.00	42990.82	43010.64	43030.46	43050.28	43070.10	43089.92	43109.74	43129.56	43149.38
838.6	43169.20	43189.02	43208.84	43228.66	43248.48	43268.30	43288.12	43307.94	43327.76	43347.58
838.7	43367.40	43387.22	43407.04	43426.86	43446.68	43466.50	43486.32	43506.14	43525.96	43545.78
838.8	43565.60	43585.42	43605.24	43625.06	43644.88	43664.70	43684.52	43704.34	43724.16	43743.98
838.9	43763.80	43783.62	43803.44	43823.26	43843.08	43862.90	43882.72	43902.54	43922.36	43942.18
839.0	43962.00	43982.40	44002.80	44023.20	44043.60	44064.00	44084.40	44104.80	44125.20	44145.60
839.1	44166.00	44186.40	44206.80	44227.20	44247.60	44268.00	44288.40	44308.80	44329.20	44349.60
839.2	44370.00	44390.40	44410.80	44431.20	44451.60	44472.00	44492.40	44512.80	44533.20	44553.60
839.3	44574.00	44594.40	44614.80	44635.20	44655.60	44676.00	44696.40	44716.80	44737.20	44757.60
839.4	44778.00	44798.40	44818.80	44839.20	44859.60	44880.00	44900.40	44920.80	44941.20	44961.60
839.5	44982.00	45002.40	45022.80	45043.20	45063.60	45084.00	45104.40	45124.80	45145.20	45165.60
839.6	45186.00	45206.40	45226.80	45247.20	45267.60	45288.00	45308.40	45328.80	45349.20	45369.60
839.7	45390.00	45410.40	45430.80	45451.20	45471.60	45492.00	45512.40	45532.80	45553.20	45573.60
839.8	45594.00	45614.40	45634.80	45655.20	45675.60	45696.00	45716.40	45736.80	45757.20	45777.60
839.9	45798.00	45818.40	45838.80	45859.20	45879.60	45900.00	45920.40	45940.80	45961.20	45981.60
840.0	46002.00	46023.01	46044.02	46065.03	46086.04	46107.05	46128.06	46149.07	46170.08	46191.09
840.1	46212.10	46233.11	46254.12	46275.13	46296.14	46317.15	46338.16	46359.17	46380.18	46401.19
840.2	46422.20	46443.21	46464.22	46485.23	46506.24	46527.25	46548.26	46569.27	46590.28	46611.29
840.3	46632.30	46653.31	46674.32	46695.33	46716.34	46737.35	46758.36	46779.37	46800.38	46821.39
840.4	46842.40	46863.41	46884.42	46905.43	46926.44	46947.45	46968.46	46989.47	47010.48	47031.49
840.5	47052.50	47073.51	47094.52	47115.53	47136.54	47157.55	47178.56	47199.57	47220.58	47241.59
840.6	47262.60	47283.61	47304.62	47325.63	47346.64	47367.65	47388.66	47409.67	47430.68	47451.69
840.7	47472.70	47493.71	47514.72	47535.73	47556.74	47577.75	47598.76	47619.77	47640.78	47661.79
840.8	47682.80	47703.81	47724.82	47745.83	47766.84	47787.85	47808.86	47829.87	47850.88	47871.89
840.9	47892.90	47913.91	47934.92	47955.93	47976.94	47997.95	48018.96	48039.97	48060.98	48081.99
841.0	48103.00	48124.69	48146.38	48168.07	48189.76	48211.45	48233.14	48254.83	48276.52	48298.21
841.1	48319.90	48341.59	48363.28	48384.97	48406.66	48428.35	48450.04	48471.73	48493.42	48515.11
841.2	48536.80	48558.49	48580.18	48601.87	48623.56	48645.25	48666.94	48688.63	48710.32	48732.01
841.3	48753.70	48775.39	48797.08	48818.77	48840.46	48862.15	48883.84	48905.53	48927.22	48948.91
841.4	48970.60	48992.29	49013.98	49035.67	49057.36	49079.05	49100.74	49122.43	49144.12	49165.81
841.5	49187.50	49209.19	49230.88	49252.57	49274.26	49295.95	49317.64	49339.33	49361.02	49382.71
841.6	49404.40	49426.09	49447.78	49469.47	49491.16	49512.85	49534.54	49556.23	49577.92	49599.61
841.7	49621.30	49642.99	49664.68	49686.37	49708.06	49729.75	49751.44	49773.13	49794.82	49816.51
841.8	49838.20	49859.89	49881.58	49903.27	49924.96	49946.65	49968.34	49990.03	50011.72	50033.41
841.9	50055.10	50076.79	50098.48	50120.17	50141.86	50163.55	50185.24	50206.93	50228.62	50250.31
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
842.0	50272.00	50294.37	50316.74	50339.11	50361.48	50383.85	50406.22	50428.59	50450.96	50473.33
842.1	50495.70	50518.07	50540.44	50562.81	50585.18	50607.55	50629.92	50652.29	50674.66	50697.03
842.2	50719.40	50741.77	50764.14	50786.51	50808.88	50831.25	50853.62	50875.99	50898.36	50920.73
842.3	50943.10	50965.47	50987.84	51010.21	51032.58	51054.95	51077.32	51099.69	51122.06	51144.43
842.4	51166.80	51189.17	51211.54	51233.91	51256.28	51278.65	51301.02	51323.39	51345.76	51368.13
842.5	51390.50	51412.87	51435.24	51457.61	51479.98	51502.35	51524.72	51547.09	51569.46	51591.83
842.6	51614.20	51636.57	51658.94	51681.31	51703.68	51726.05	51748.42	51770.79	51793.16	51815.53
842.7	51837.90	51860.27	51882.64	51905.01	51927.38	51949.75	51972.12	51994.49	52016.86	52039.23
842.8	52061.60	52083.97	52106.34	52128.71	52151.08	52173.45	52195.82	52218.19	52240.56	52262.93
842.9	52285.30	52307.67	52330.04	52352.41	52374.78	52397.15	52419.52	52441.89	52464.26	52486.63
843.0	52509.00	52532.02	52555.04	52578.06	52601.08	52624.10	52647.12	52670.14	52693.16	52716.18
843.1	52739.20	52762.22	52785.24	52808.26	52831.28	52854.30	52877.32	52900.34	52923.36	52946.38
843.2	52969.40	52992.42	53015.44	53038.46	53061.48	53084.50	53107.52	53130.54	53153.56	53176.58
843.3	53199.60	53222.62	53245.64	53268.66	53291.68	53314.70	53337.72	53360.74	53383.76	53406.78
843.4	53429.80	53452.82	53475.84	53498.86	53521.88	53544.90	53567.92	53590.94	53613.96	53636.98
843.5	53660.00	53683.02	53706.04	53729.06	53752.08	53775.10	53798.12	53821.14	53844.16	53867.18
843.6	53890.20	53913.22	53936.24	53959.26	53982.28	54005.30	54028.32	54051.34	54074.36	54097.38
843.7	54120.40	54143.42	54166.44	54189.46	54212.48	54235.50	54258.52	54281.54	54304.56	54327.58
843.8	54350.60	54373.62	54396.64	54419.66	54442.68	54465.70	54488.72	54511.74	54534.76	54557.78
843.9	54580.80	54603.82	54626.84	54649.86	54672.88	54695.90	54718.92	54741.94	54764.96	54787.98
844.0	54811.00	54834.62	54858.24	54881.86	54905.48	54929.10	54952.72	54976.34	54999.96	55023.58
844.1	55047.20	55070.82	55094.44	55118.06	55141.68	55165.30	55188.92	55212.54	55236.16	55259.78
844.2	55283.40	55307.02	55330.64	55354.26	55377.88	55401.50	55425.12	55448.74	55472.36	55495.98
844.3	55519.60	55543.22	55566.84	55590.46	55614.08	55637.70	55661.32	55684.94	55708.56	55732.18
844.4	55755.80	55779.42	55803.04	55826.66	55850.28	55873.90	55897.52	55921.14	55944.76	55968.38
844.5	55992.00	56015.62	56039.24	56062.86	56086.48	56110.10	56133.72	56157.34	56180.96	56204.58
844.6	56228.20	56251.82	56275.44	56299.06	56322.68	56346.30	56369.92	56393.54	56417.16	56440.78
844.7	56464.40	56488.02	56511.64	56535.26	56558.88	56582.50	56606.12	56629.74	56653.36	56676.98
844.8	56700.60	56724.22	56747.84	56771.46	56795.08	56818.70	56842.32	56865.94	56889.56	56913.18
844.9	56936.80	56960.42	56984.04	57007.66	57031.28	57054.90	57078.52	57102.14	57125.76	57149.38
845.0	57173.00	57197.23	57221.46	57245.69	57269.92	57294.15	57318.38	57342.61	57366.84	57391.07
845.1	57415.30	57439.53	57463.76	57487.99	57512.22	57536.45	57560.68	57584.91	57609.14	57633.37
845.2	57657.60	57681.83	57706.06	57730.29	57754.52	57778.75	57802.98	57827.21	57851.44	57875.67
845.3	57899.90	57924.13	57948.36	57972.59	57996.82	58021.05	58045.28	58069.51	58093.74	58117.97
845.4	58142.20	58166.43	58190.66	58214.89	58239.12	58263.35	58287.58	58311.81	58336.04	58360.27
845.5	58384.50	58408.73	58432.96	58457.19	58481.42	58505.65	58529.88	58554.11	58578.34	58602.57
845.6	58626.80	58651.03	58675.26	58699.49	58723.72	58747.95	58772.18	58796.41	58820.64	58844.87
845.7	58869.10	58893.33	58917.56	58941.79	58966.02	58990.25	59014.48	59038.71	59062.94	59087.17
845.8	59111.40	59135.63	59159.86	59184.09	59208.32	59232.55	59256.78	59281.01	59305.24	59329.47
845.9	59353.70	59377.93	59402.16	59426.39	59450.62	59474.85	59499.08	59523.31	59547.54	59571.77
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
846.0	59596.00	59620.84	59645.68	59670.52	59695.36	59720.20	59745.04	59769.88	59794.72	59819.56
846.1	59844.40	59869.24	59894.08	59918.92	59943.76	59968.60	59993.44	60018.28	60043.12	60067.96
846.2	60092.80	60117.64	60142.48	60167.32	60192.16	60217.00	60241.84	60266.68	60291.52	60316.36
846.3	60341.20	60366.04	60390.88	60415.72	60440.56	60465.40	60490.24	60515.08	60539.92	60564.76
846.4	60589.60	60614.44	60639.28	60664.12	60688.96	60713.80	60738.64	60763.48	60788.32	60813.16
846.5	60838.00	60862.84	60887.68	60912.52	60937.36	60962.20	60987.04	61011.88	61036.72	61061.56
846.6	61086.40	61111.24	61136.08	61160.92	61185.76	61210.60	61235.44	61260.28	61285.12	61309.96
846.7	61334.80	61359.64	61384.48	61409.32	61434.16	61459.00	61483.84	61508.68	61533.52	61558.36
846.8	61583.20	61608.04	61632.88	61657.72	61682.56	61707.40	61732.24	61757.08	61781.92	61806.76
846.9	61831.60	61856.44	61881.28	61906.12	61930.96	61955.80	61980.64	62005.48	62030.32	62055.16
847.0	62080.00	62105.46	62130.92	62156.38	62181.84	62207.30	62232.76	62258.22	62283.68	62309.14
847.1	62334.60	62360.06	62385.52	62410.98	62436.44	62461.90	62487.36	62512.82	62538.28	62563.74
847.2	62589.20	62614.66	62640.12	62665.58	62691.04	62716.50	62741.96	62767.42	62792.88	62818.34
847.3	62843.80	62869.26	62894.72	62920.18	62945.64	62971.10	62996.56	63022.02	63047.48	63072.94
847.4	63098.40	63123.86	63149.32	63174.78	63200.24	63225.70	63251.16	63276.62	63302.08	63327.54
847.5	63353.00	63378.46	63403.92	63429.38	63454.84	63480.30	63505.76	63531.22	63556.68	63582.14
847.6	63607.60	63633.06	63658.52	63683.98	63709.44	63734.90	63760.36	63785.82	63811.28	63836.74
847.7	63862.20	63887.66	63913.12	63938.58	63964.04	63989.50	64014.96	64040.42	64065.88	64091.34
847.8	64116.80	64142.26	64167.72	64193.18	64218.64	64244.10	64269.56	64295.02	64320.48	64345.94
847.9	64371.40	64396.86	64422.32	64447.78	64473.24	64498.70	64524.16	64549.62	64575.08	64600.54
848.0	64626.00	64652.09	64678.18	64704.27	64730.36	64756.45	64782.54	64808.63	64834.72	64860.81
848.1	64886.90	64912.99	64939.08	64965.17	64991.26	65017.35	65043.44	65069.53	65095.62	65121.71
848.2	65147.80	65173.89	65199.98	65226.07	65252.16	65278.25	65304.34	65330.43	65356.52	65382.61
848.3	65408.70	65434.79	65460.88	65486.97	65513.06	65539.15	65565.24	65591.33	65617.42	65643.51
848.4	65669.60	65695.69	65721.78	65747.87	65773.96	65800.05	65826.14	65852.23	65878.32	65904.41
848.5	65930.50	65956.59	65982.68	66008.77	66034.86	66060.95	66087.04	66113.13	66139.22	66165.31
848.6	66191.40	66217.49	66243.58	66269.67	66295.76	66321.85	66347.94	66374.03	66400.12	66426.21
848.7	66452.30	66478.39	66504.48	66530.57	66556.66	66582.75	66608.84	66634.93	66661.02	66687.11
848.8	66713.20	66739.29	66765.38	66791.47	66817.56	66843.65	66869.74	66895.83	66921.92	66948.01
848.9	66974.10	67000.19	67026.28	67052.37	67078.46	67104.55	67130.64	67156.73	67182.82	67208.91
849.0	67235.00	67261.74	67288.48	67315.22	67341.96	67368.70	67395.44	67422.18	67448.92	67475.66
849.1	67502.40	67529.14	67555.88	67582.62	67609.36	67636.10	67662.84	67689.58	67716.32	67743.06
849.2	67769.80	67796.54	67823.28	67850.02	67876.76	67903.50	67930.24	67956.98	67983.72	68010.46
849.3	68037.20	68063.94	68090.68	68117.42	68144.16	68170.90	68197.64	68224.38	68251.12	68277.86
849.4	68304.60	68331.34	68358.08	68384.82	68411.56	68438.30	68465.04	68491.78	68518.52	68545.26
849.5	68572.00	68598.74	68625.48	68652.22	68678.96	68705.70	68732.44	68759.18	68785.92	68812.66
849.6	68839.40	68866.14	68892.88	68919.62	68946.36	68973.10	68999.84	69026.58	69053.32	69080.06
849.7	69106.80	69133.54	69160.28	69187.02	69213.76	69240.50	69267.24	69293.98	69320.72	69347.46
849.8	69374.20	69400.94	69427.68	69454.42	69481.16	69507.90	69534.64	69561.38	69588.12	69614.86
849.9	69641.60	69668.34	69695.08	69721.82	69748.56	69775.30	69802.04	69828.78	69855.52	69882.26
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
850.0	69909.00	69936.40	69963.80	69991.20	70018.60	70046.00	70073.40	70100.80	70128.20	70155.60
850.1	70183.00	70210.40	70237.80	70265.20	70292.60	70320.00	70347.40	70374.80	70402.20	70429.60
850.2	70457.00	70484.40	70511.80	70539.20	70566.60	70594.00	70621.40	70648.80	70676.20	70703.60
850.3	70731.00	70758.40	70785.80	70813.20	70840.60	70868.00	70895.40	70922.80	70950.20	70977.60
850.4	71005.00	71032.40	71059.80	71087.20	71114.60	71142.00	71169.40	71196.80	71224.20	71251.60
850.5	71279.00	71306.40	71333.80	71361.20	71388.60	71416.00	71443.40	71470.80	71498.20	71525.60
850.6	71553.00	71580.40	71607.80	71635.20	71662.60	71690.00	71717.40	71744.80	71772.20	71799.60
850.7	71827.00	71854.40	71881.80	71909.20	71936.60	71964.00	71991.40	72018.80	72046.20	72073.60
850.8	72101.00	72128.40	72155.80	72183.20	72210.60	72238.00	72265.40	72292.80	72320.20	72347.60
850.9	72375.00	72402.40	72429.80	72457.20	72484.60	72512.00	72539.40	72566.80	72594.20	72621.60
851.0	72649.00	72677.10	72705.20	72733.30	72761.40	72789.50	72817.60	72845.70	72873.80	72901.90
851.1	72930.00	72958.10	72986.20	73014.30	73042.40	73070.50	73098.60	73126.70	73154.80	73182.90
851.2	73211.00	73239.10	73267.20	73295.30	73323.40	73351.50	73379.60	73407.70	73435.80	73463.90
851.3	73492.00	73520.10	73548.20	73576.30	73604.40	73632.50	73660.60	73688.70	73716.80	73744.90
851.4	73773.00	73801.10	73829.20	73857.30	73885.40	73913.50	73941.60	73969.70	73997.80	74025.90
851.5	74054.00	74082.10	74110.20	74138.30	74166.40	74194.50	74222.60	74250.70	74278.80	74306.90
851.6	74335.00	74363.10	74391.20	74419.30	74447.40	74475.50	74503.60	74531.70	74559.80	74587.90
851.7	74616.00	74644.10	74672.20	74700.30	74728.40	74756.50	74784.60	74812.70	74840.80	74868.90
851.8	74897.00	74925.10	74953.20	74981.30	75009.40	75037.50	75065.60	75093.70	75121.80	75149.90
851.9	75178.00	75206.10	75234.20	75262.30	75290.40	75318.50	75346.60	75374.70	75402.80	75430.90
852.0	75459.00	75487.81	75516.62	75545.43	75574.24	75603.05	75631.86	75660.67	75689.48	75718.29
852.1	75747.10	75775.91	75804.72	75833.53	75862.34	75891.15	75919.96	75948.77	75977.58	76006.39
852.2	76035.20	76064.01	76092.82	76121.63	76150.44	76179.25	76208.06	76236.87	76265.68	76294.49
852.3	76323.30	76352.11	76380.92	76409.73	76438.54	76467.35	76496.16	76524.97	76553.78	76582.59
852.4	76611.40	76640.21	76669.02	76697.83	76726.64	76755.45	76784.26	76813.07	76841.88	76870.69
852.5	76899.50	76928.31	76957.12	76985.93	77014.74	77043.55	77072.36	77101.17	77129.98	77158.79
852.6	77187.60	77216.41	77245.22	77274.03	77302.84	77331.65	77360.46	77389.27	77418.08	77446.89
852.7	77475.70	77504.51	77533.32	77562.13	77590.94	77619.75	77648.56	77677.37	77706.18	77734.99
852.8	77763.80	77792.61	77821.42	77850.23	77879.04	77907.85	77936.66	77965.47	77994.28	78023.09
852.9	78051.90	78080.71	78109.52	78138.33	78167.14	78195.95	78224.76	78253.57	78282.38	78311.19
853.0	78340.00	78369.51	78399.02	78428.53	78458.04	78487.55	78517.06	78546.57	78576.08	78605.59
853.1	78635.10	78664.61	78694.12	78723.63	78753.14	78782.65	78812.16	78841.67	78871.18	78900.69
853.2	78930.20	78959.71	78989.22	79018.73	79048.24	79077.75	79107.26	79136.77	79166.28	79195.79
853.3	79225.30	79254.81	79284.32	79313.83	79343.34	79372.85	79402.36	79431.87	79461.38	79490.89
853.4	79520.40	79549.91	79579.42	79608.93	79638.44	79667.95	79697.46	79726.97	79756.48	79785.99
853.5	79815.50	79845.01	79874.52	79904.03	79933.54	79963.05	79992.56	80022.07	80051.58	80081.09
853.6	80110.60	80140.11	80169.62	80199.13	80228.64	80258.15	80287.66	80317.17	80346.68	80376.19
853.7	80405.70	80435.21	80464.72	80494.23	80523.74	80553.25	80582.76	80612.27	80641.78	80671.29
853.8	80700.80	80730.31	80759.82	80789.33	80818.84	80848.35	80877.86	80907.37	80936.88	80966.39
853.9	80995.90	81025.41	81054.92	81084.43	81113.94	81143.45	81172.96	81202.47	81231.98	81261.49
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
854.0	81291.00	81321.21	81351.42	81381.63	81411.84	81442.05	81472.26	81502.47	81532.68	81562.89
854.1	81593.10	81623.31	81653.52	81683.73	81713.94	81744.15	81774.36	81804.57	81834.78	81864.99
854.2	81895.20	81925.41	81955.62	81985.83	82016.04	82046.25	82076.46	82106.67	82136.88	82167.09
854.3	82197.30	82227.51	82257.72	82287.93	82318.14	82348.35	82378.56	82408.77	82438.98	82469.19
854.4	82499.40	82529.61	82559.82	82590.03	82620.24	82650.45	82680.66	82710.87	82741.08	82771.29
854.5	82801.50	82831.71	82861.92	82892.13	82922.34	82952.55	82982.76	83012.97	83043.18	83073.39
854.6	83103.60	83133.81	83164.02	83194.23	83224.44	83254.65	83284.86	83315.07	83345.28	83375.49
854.7	83405.70	83435.91	83466.12	83496.33	83526.54	83556.75	83586.96	83617.17	83647.38	83677.59
854.8	83707.80	83738.01	83768.22	83798.43	83828.64	83858.85	83889.06	83919.27	83949.48	83979.69
854.9	84009.90	84040.11	84070.32	84100.53	84130.74	84160.95	84191.16	84221.37	84251.58	84281.79
855.0	84312.00	84342.99	84373.98	84404.97	84435.96	84466.95	84497.94	84528.93	84559.92	84590.91
855.1	84621.90	84652.89	84683.88	84714.87	84745.86	84776.85	84807.84	84838.83	84869.82	84900.81
855.2	84931.80	84962.79	84993.78	85024.77	85055.76	85086.75	85117.74	85148.73	85179.72	85210.71
855.3	85241.70	85272.69	85303.68	85334.67	85365.66	85396.65	85427.64	85458.63	85489.62	85520.61
855.4	85551.60	85582.59	85613.58	85644.57	85675.56	85706.55	85737.54	85768.53	85799.52	85830.51
855.5	85861.50	85892.49	85923.48	85954.47	85985.46	86016.45	86047.44	86078.43	86109.42	86140.41
855.6	86171.40	86202.39	86233.38	86264.37	86295.36	86326.35	86357.34	86388.33	86419.32	86450.31
855.7	86481.30	86512.29	86543.28	86574.27	86605.26	86636.25	86667.24	86698.23	86729.22	86760.21
855.8	86791.20	86822.19	86853.18	86884.17	86915.16	86946.15	86977.14	87008.13	87039.12	87070.11
855.9	87101.10	87132.09	87163.08	87194.07	87225.06	87256.05	87287.04	87318.03	87349.02	87380.01
856.0	87411.00	87442.77	87474.54	87506.31	87538.08	87569.85	87601.62	87633.39	87665.16	87696.93
856.1	87728.70	87760.47	87792.24	87824.01	87855.78	87887.55	87919.32	87951.09	87982.86	88014.63
856.2	88046.40	88078.17	88109.94	88141.71	88173.48	88205.25	88237.02	88268.79	88300.56	88332.33
856.3	88364.10	88395.87	88427.64	88459.41	88491.18	88522.95	88554.72	88586.49	88618.26	88650.03
856.4	88681.80	88713.57	88745.34	88777.11	88808.88	88840.65	88872.42	88904.19	88935.96	88967.73
856.5	88999.50	89031.27	89063.04	89094.81	89126.58	89158.35	89190.12	89221.89	89253.66	89285.43
856.6	89317.20	89348.97	89380.74	89412.51	89444.28	89476.05	89507.82	89539.59	89571.36	89603.13
856.7	89634.90	89666.67	89698.44	89730.21	89761.98	89793.75	89825.52	89857.29	89889.06	89920.83
856.8	89952.60	89984.37	90016.14	90047.91	90079.68	90111.45	90143.22	90174.99	90206.76	90238.53
856.9	90270.30	90302.07	90333.84	90365.61	90397.38	90429.15	90460.92	90492.69	90524.46	90556.23
857.0	90588.00	90620.52	90653.04	90685.56	90718.08	90750.60	90783.12	90815.64	90848.16	90880.68
857.1	90913.20	90945.72	90978.24	91010.76	91043.28	91075.80	91108.32	91140.84	91173.36	91205.88
857.2	91238.40	91270.92	91303.44	91335.96	91368.48	91401.00	91433.52	91466.04	91498.56	91531.08
857.3	91563.60	91596.12	91628.64	91661.16	91693.68	91726.20	91758.72	91791.24	91823.76	91856.28
857.4	91888.80	91921.32	91953.84	91986.36	92018.88	92051.40	92083.92	92116.44	92148.96	92181.48
857.5	92214.00	92246.52	92279.04	92311.56	92344.08	92376.60	92409.12	92441.64	92474.16	92506.68
857.6	92539.20	92571.72	92604.24	92636.76	92669.28	92701.80	92734.32	92766.84	92799.36	92831.88
857.7	92864.40	92896.92	92929.44	92961.96	92994.48	93027.00	93059.52	93092.04	93124.56	93157.08
857.8	93189.60	93222.12	93254.64	93287.16	93319.68	93352.20	93384.72	93417.24	93449.76	93482.28
857.9	93514.80	93547.32	93579.84	93612.36	93644.88	93677.40	93709.92	93742.44	93774.96	93807.48
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
858.0	93840.00	93873.27	93906.54	93939.81	93973.08	94006.35	94039.62	94072.89	94106.16	94139.43
858.1	94172.70	94205.97	94239.24	94272.51	94305.78	94339.05	94372.32	94405.59	94438.86	94472.13
858.2	94505.40	94538.67	94571.94	94605.21	94638.48	94671.75	94705.02	94738.29	94771.56	94804.83
858.3	94838.10	94871.37	94904.64	94937.91	94971.18	95004.45	95037.72	95070.99	95104.26	95137.53
858.4	95170.80	95204.07	95237.34	95270.61	95303.88	95337.15	95370.42	95403.69	95436.96	95470.23
858.5	95503.50	95536.77	95570.04	95603.31	95636.58	95669.85	95703.12	95736.39	95769.66	95802.93
858.6	95836.20	95869.47	95902.74	95936.01	95969.28	96002.55	96035.82	96069.09	96102.36	96135.63
858.7	96168.90	96202.17	96235.44	96268.71	96301.98	96335.25	96368.52	96401.79	96435.06	96468.33
858.8	96501.60	96534.87	96568.14	96601.41	96634.68	96667.95	96701.22	96734.49	96767.76	96801.03
858.9	96834.30	96867.57	96900.84	96934.11	96967.38	97000.65	97033.92	97067.19	97100.46	97133.73
859.0	97167.00	97201.12	97235.24	97269.36	97303.48	97337.60	97371.72	97405.84	97439.96	97474.08
859.1	97508.20	97542.32	97576.44	97610.56	97644.68	97678.80	97712.92	97747.04	97781.16	97815.28
859.2	97849.40	97883.52	97917.64	97951.76	97985.88	98020.00	98054.12	98088.24	98122.36	98156.48
859.3	98190.60	98224.72	98258.84	98292.96	98327.08	98361.20	98395.32	98429.44	98463.56	98497.68
859.4	98531.80	98565.92	98600.04	98634.16	98668.28	98702.40	98736.52	98770.64	98804.76	98838.88
859.5	98873.00	98907.12	98941.24	98975.36	99009.48	99043.60	99077.72	99111.84	99145.96	99180.08
859.6	99214.20	99248.32	99282.44	99316.56	99350.68	99384.80	99418.92	99453.04	99487.16	99521.28
859.7	99555.40	99589.52	99623.64	99657.76	99691.88	99726.00	99760.12	99794.24	99828.36	99862.48
859.8	99896.60	99930.72	99964.84	99998.96	100033.08	100067.20	100101.32	100135.44	100169.56	100203.68
859.9	100237.80	100271.92	100306.04	100340.16	100374.28	100408.40	100442.52	100476.64	100510.76	100544.88
860.0	100579.00	100613.94	100648.88	100683.82	100718.76	100753.70	100788.64	100823.58	100858.52	100893.46
860.1	100928.40	100963.34	100998.28	101033.22	101068.16	101103.10	101138.04	101172.98	101207.92	101242.86
860.2	101277.80	101312.74	101347.68	101382.62	101417.56	101452.50	101487.44	101522.38	101557.32	101592.26
860.3	101627.20	101662.14	101697.08	101732.02	101766.96	101801.90	101836.84	101871.78	101906.72	101941.66
860.4	101976.60	102011.54	102046.48	102081.42	102116.36	102151.30	102186.24	102221.18	102256.12	102291.06
860.5	102326.00	102360.94	102395.88	102430.82	102465.76	102500.70	102535.64	102570.58	102605.52	102640.46
860.6	102675.40	102710.34	102745.28	102780.22	102815.16	102850.10	102885.04	102919.98	102954.92	102989.86
860.7	103024.80	103059.74	103094.68	103129.62	103164.56	103199.50	103234.44	103269.38	103304.32	103339.26
860.8	103374.20	103409.14	103444.08	103479.02	103513.96	103548.90	103583.84	103618.78	103653.72	103688.66
860.9	103723.60	103758.54	103793.48	103828.42	103863.36	103898.30	103933.24	103968.18	104003.12	104038.06
861.0	104073.00	104108.73	104144.46	104180.19	104215.92	104251.65	104287.38	104323.11	104358.84	104394.57
861.1	104430.30	104466.03	104501.76	104537.49	104573.22	104608.95	104644.68	104680.41	104716.14	104751.87
861.2	104787.60	104823.33	104859.06	104894.79	104930.52	104966.25	105001.98	105037.71	105073.44	105109.17
861.3	105144.90	105180.63	105216.36	105252.09	105287.82	105323.55	105359.28	105395.01	105430.74	105466.47
861.4	105502.20	105537.93	105573.66	105609.39	105645.12	105680.85	105716.58	105752.31	105788.04	105823.77
861.5	105859.50	105895.23	105930.96	105966.69	106002.42	106038.15	106073.88	106109.61	106145.34	106181.07
861.6	106216.80	106252.53	106288.26	106323.99	106359.72	106395.45	106431.18	106466.91	106502.64	106538.37
861.7	106574.10	106609.83	106645.56	106681.29	106717.02	106752.75	106788.48	106824.21	106859.94	106895.67
861.8	106931.40	106967.13	107002.86	107038.59	107074.32	107110.05	107145.78	107181.51	107217.24	107252.97
861.9	107288.70	107324.43	107360.16	107395.89	107431.62	107467.35	107503.08	107538.81	107574.54	107610.27
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
862.0	107646.00	107682.48	107718.96	107755.44	107791.92	107828.40	107864.88	107901.36	107937.84	107974.32
862.1	108010.80	108047.28	108083.76	108120.24	108156.72	108193.20	108229.68	108266.16	108302.64	108339.12
862.2	108375.60	108412.08	108448.56	108485.04	108521.52	108558.00	108594.48	108630.96	108667.44	108703.92
862.3	108740.40	108776.88	108813.36	108849.84	108886.32	108922.80	108959.28	108995.76	109032.24	109068.72
862.4	109105.20	109141.68	109178.16	109214.64	109251.12	109287.60	109324.08	109360.56	109397.04	109433.52
862.5	109470.00	109506.48	109542.96	109579.44	109615.92	109652.40	109688.88	109725.36	109761.84	109798.32
862.6	109834.80	109871.28	109907.76	109944.24	109980.72	110017.20	110053.68	110090.16	110126.64	110163.12
862.7	110199.60	110236.08	110272.56	110309.04	110345.52	110382.00	110418.48	110454.96	110491.44	110527.92
862.8	110564.40	110600.88	110637.36	110673.84	110710.32	110746.80	110783.28	110819.76	110856.24	110892.72
862.9	110929.20	110965.68	111002.16	111038.64	111075.12	111111.60	111148.08	111184.56	111221.04	111257.52
863.0	111294.00	111331.25	111368.50	111405.75	111443.00	111480.25	111517.50	111554.75	111592.00	111629.25
863.1	111666.50	111703.75	111741.00	111778.25	111815.50	111852.75	111890.00	111927.25	111964.50	112001.75
863.2	112039.00	112076.25	112113.50	112150.75	112188.00	112225.25	112262.50	112299.75	112337.00	112374.25
863.3	112411.50	112448.75	112486.00	112523.25	112560.50	112597.75	112635.00	112672.25	112709.50	112746.75
863.4	112784.00	112821.25	112858.50	112895.75	112933.00	112970.25	113007.50	113044.75	113082.00	113119.25
863.5	113156.50	113193.75	113231.00	113268.25	113305.50	113342.75	113380.00	113417.25	113454.50	113491.75
863.6	113529.00	113566.25	113603.50	113640.75	113678.00	113715.25	113752.50	113789.75	113827.00	113864.25
863.7	113901.50	113938.75	113976.00	114013.25	114050.50	114087.75	114125.00	114162.25	114199.50	114236.75
863.8	114274.00	114311.25	114348.50	114385.75	114423.00	114460.25	114497.50	114534.75	114572.00	114609.25
863.9	114646.50	114683.75	114721.00	114758.25	114795.50	114832.75	114870.00	114907.25	114944.50	114981.75
864.0	115019.00	115056.98	115094.96	115132.94	115170.92	115208.90	115246.88	115284.86	115322.84	115360.82
864.1	115398.80	115436.78	115474.76	115512.74	115550.72	115588.70	115626.68	115664.66	115702.64	115740.62
864.2	115778.60	115816.58	115854.56	115892.54	115930.52	115968.50	116006.48	116044.46	116082.44	116120.42
864.3	116158.40	116196.38	116234.36	116272.34	116310.32	116348.30	116386.28	116424.26	116462.24	116500.22
864.4	116538.20	116576.18	116614.16	116652.14	116690.12	116728.10	116766.08	116804.06	116842.04	116880.02
864.5	116918.00	116955.98	116993.96	117031.94	117069.92	117107.90	117145.88	117183.86	117221.84	117259.82
864.6	117297.80	117335.78	117373.76	117411.74	117449.72	117487.70	117525.68	117563.66	117601.64	117639.62
864.7	117677.60	117715.58	117753.56	117791.54	117829.52	117867.50	117905.48	117943.46	117981.44	118019.42
864.8	118057.40	118095.38	118133.36	118171.34	118209.32	118247.30	118285.28	118323.26	118361.24	118399.22
864.9	118437.20	118475.18	118513.16	118551.14	118589.12	118627.10	118665.08	118703.06	118741.04	118779.02
865.0	118817.00	118855.75	118894.50	118933.25	118972.00	119010.75	119049.50	119088.25	119127.00	119165.75
865.1	119204.50	119243.25	119282.00	119320.75	119359.50	119398.25	119437.00	119475.75	119514.50	119553.25
865.2	119592.00	119630.75	119669.50	119708.25	119747.00	119785.75	119824.50	119863.25	119902.00	119940.75
865.3	119979.50	120018.25	120057.00	120095.75	120134.50	120173.25	120212.00	120250.75	120289.50	120328.25
865.4	120367.00	120405.75	120444.50	120483.25	120522.00	120560.75	120599.50	120638.25	120677.00	120715.75
865.5	120754.50	120793.25	120832.00	120870.75	120909.50	120948.25	120987.00	121025.75	121064.50	121103.25
865.6	121142.00	121180.75	121219.50	121258.25	121297.00	121335.75	121374.50	121413.25	121452.00	121490.75
865.7	121529.50	121568.25	121607.00	121645.75	121684.50	121723.25	121762.00	121800.75	121839.50	121878.25
865.8	121917.00	121955.75	121994.50	122033.25	122072.00	122110.75	122149.50	122188.25	122227.00	122265.75
865.9	122304.50	122343.25	122382.00	122420.75	122459.50	122498.25	122537.00	122575.75	122614.50	122653.25
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
866.0	122692.00	122731.56	122771.12	122810.68	122850.24	122889.80	122929.36	122968.92	123008.48	123048.04
866.1	123087.60	123127.16	123166.72	123206.28	123245.84	123285.40	123324.96	123364.52	123404.08	123443.64
866.2	123483.20	123522.76	123562.32	123601.88	123641.44	123681.00	123720.56	123760.12	123799.68	123839.24
866.3	123878.80	123918.36	123957.92	123997.48	124037.04	124076.60	124116.16	124155.72	124195.28	124234.84
866.4	124274.40	124313.96	124353.52	124393.08	124432.64	124472.20	124511.76	124551.32	124590.88	124630.44
866.5	124670.00	124709.56	124749.12	124788.68	124828.24	124867.80	124907.36	124946.92	124986.48	125026.04
866.6	125065.60	125105.16	125144.72	125184.28	125223.84	125263.40	125302.96	125342.52	125382.08	125421.64
866.7	125461.20	125500.76	125540.32	125579.88	125619.44	125659.00	125698.56	125738.12	125777.68	125817.24
866.8	125856.80	125896.36	125935.92	125975.48	126015.04	126054.60	126094.16	126133.72	126173.28	126212.84
866.9	126252.40	126291.96	126331.52	126371.08	126410.64	126450.20	126489.76	126529.32	126568.88	126608.44
867.0	126648.00	126688.38	126728.76	126769.14	126809.52	126849.90	126890.28	126930.66	126971.04	127011.42
867.1	127051.80	127092.18	127132.56	127172.94	127213.32	127253.70	127294.08	127334.46	127374.84	127415.22
867.2	127455.60	127495.98	127536.36	127576.74	127617.12	127657.50	127697.88	127738.26	127778.64	127819.02
867.3	127859.40	127899.78	127940.16	127980.54	128020.92	128061.30	128101.68	128142.06	128182.44	128222.82
867.4	128263.20	128303.58	128343.96	128384.34	128424.72	128465.10	128505.48	128545.86	128586.24	128626.62
867.5	128667.00	128707.38	128747.76	128788.14	128828.52	128868.90	128909.28	128949.66	128990.04	129030.42
867.6	129070.80	129111.18	129151.56	129191.94	129232.32	129272.70	129313.08	129353.46	129393.84	129434.22
867.7	129474.60	129514.98	129555.36	129595.74	129636.12	129676.50	129716.88	129757.26	129797.64	129838.02
867.8	129878.40	129918.78	129959.16	129999.54	130039.92	130080.30	130120.68	130161.06	130201.44	130241.82
867.9	130282.20	130322.58	130362.96	130403.34	130443.72	130484.10	130524.48	130564.86	130605.24	130645.62
868.0	130686.00	130727.29	130768.58	130809.87	130851.16	130892.45	130933.74	130975.03	131016.32	131057.61
868.1	131098.91	131140.19	131181.48	131222.77	131264.06	131305.34	131346.64	131387.94	131429.22	131470.52
868.2	131511.80	131553.09	131594.38	131635.67	131676.95	131718.25	131759.55	131800.83	131842.12	131883.41
868.3	131924.70	131965.98	132007.28	132048.56	132089.86	132131.16	132172.44	132213.73	132255.02	132296.31
868.4	132337.59	132378.89	132420.19	132461.47	132502.77	132544.05	132585.34	132626.62	132667.92	132709.20
868.5	132750.50	132791.80	132833.08	132874.38	132915.66	132956.95	132998.23	133039.53	133080.81	133122.11
868.6	133163.41	133204.69	133245.98	133287.27	133328.56	133369.84	133411.14	133452.44	133493.72	133535.02
868.7	133576.30	133617.59	133658.88	133700.17	133741.45	133782.75	133824.05	133865.33	133906.62	133947.91
868.8	133989.20	134030.48	134071.78	134113.06	134154.36	134195.66	134236.94	134278.23	134319.52	134360.81
868.9	134402.09	134443.39	134484.69	134525.97	134567.27	134608.55	134649.84	134691.12	134732.42	134773.70
869.0	134815.00	134857.25	134899.50	134941.75	134984.00	135026.25	135068.50	135110.75	135153.00	135195.25
869.1	135237.50	135279.75	135322.00	135364.25	135406.50	135448.75	135491.00	135533.25	135575.50	135617.75
869.2	135660.00	135702.25	135744.50	135786.75	135829.00	135871.25	135913.50	135955.75	135998.00	136040.25
869.3	136082.50	136124.75	136167.00	136209.25	136251.50	136293.75	136336.00	136378.25	136420.50	136462.75
869.4	136505.00	136547.25	136589.50	136631.75	136674.00	136716.25	136758.50	136800.75	136843.00	136885.25
869.5	136927.50	136969.75	137012.00	137054.25	137096.50	137138.75	137181.00	137223.25	137265.50	137307.75
869.6	137350.00	137392.25	137434.50	137476.75	137519.00	137561.25	137603.50	137645.75	137688.00	137730.25
869.7	137772.50	137814.75	137857.00	137899.25	137941.50	137983.75	138026.00	138068.25	138110.50	138152.75
869.8	138195.00	138237.25	138279.50	138321.75	138364.00	138406.25	138448.50	138490.75	138533.00	138575.25
869.9	138617.50	138659.75	138702.00	138744.25	138786.50	138828.75	138871.00	138913.25	138955.50	138997.75
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
870.0	139040.00	139083.19	139126.38	139169.56	139212.77	139255.95	139299.14	139342.33	139385.52	139428.70
870.1	139471.91	139515.09	139558.28	139601.47	139644.66	139687.84	139731.05	139774.23	139817.42	139860.61
870.2	139903.80	139946.98	139990.19	140033.38	140076.56	140119.75	140162.94	140206.12	140249.31	140292.52
870.3	140335.70	140378.89	140422.08	140465.27	140508.45	140551.66	140594.84	140638.03	140681.22	140724.41
870.4	140767.59	140810.80	140853.98	140897.17	140940.36	140983.55	141026.73	141069.94	141113.12	141156.31
870.5	141199.50	141242.69	141285.88	141329.06	141372.27	141415.45	141458.64	141501.83	141545.02	141588.20
870.6	141631.41	141674.59	141717.78	141760.97	141804.16	141847.34	141890.55	141933.73	141976.92	142020.11
870.7	142063.30	142106.48	142149.69	142192.88	142236.06	142279.25	142322.44	142365.62	142408.81	142452.02
870.8	142495.20	142538.39	142581.58	142624.77	142667.95	142711.16	142754.34	142797.53	142840.72	142883.91
870.9	142927.09	142970.30	143013.48	143056.67	143099.86	143143.05	143186.23	143229.44	143272.62	143315.81
871.0	143359.00	143403.11	143447.22	143491.33	143535.44	143579.55	143623.66	143667.77	143711.88	143755.98
871.1	143800.09	143844.20	143888.31	143932.44	143976.55	144020.66	144064.77	144108.88	144152.98	144197.09
871.2	144241.20	144285.31	144329.42	144373.53	144417.64	144461.75	144505.86	144549.97	144594.08	144638.19
871.3	144682.30	144726.41	144770.52	144814.62	144858.73	144902.84	144946.95	144991.06	145035.19	145079.30
871.4	145123.41	145167.52	145211.62	145255.73	145299.84	145343.95	145388.06	145432.17	145476.28	145520.39
871.5	145564.50	145608.61	145652.72	145696.83	145740.94	145785.05	145829.16	145873.27	145917.38	145961.48
871.6	146005.59	146049.70	146093.81	146137.94	146182.05	146226.16	146270.27	146314.38	146358.48	146402.59
871.7	146446.70	146490.81	146534.92	146579.03	146623.14	146667.25	146711.36	146755.47	146799.58	146843.69
871.8	146887.80	146931.91	146976.02	147020.12	147064.23	147108.34	147152.45	147196.56	147240.69	147284.80
871.9	147328.91	147373.02	147417.12	147461.23	147505.34	147549.45	147593.56	147637.67	147681.78	147725.89
872.0	147770.00	147815.05	147860.08	147905.12	147950.16	147995.20	148040.23	148085.28	148130.31	148175.36
872.1	148220.41	148265.44	148310.48	148355.52	148400.56	148445.59	148490.64	148535.69	148580.72	148625.77
872.2	148670.80	148715.84	148760.88	148805.92	148850.95	148896.00	148941.05	148986.08	149031.12	149076.16
872.3	149121.20	149166.23	149211.28	149256.31	149301.36	149346.41	149391.44	149436.48	149481.52	149526.56
872.4	149571.59	149616.64	149661.69	149706.72	149751.77	149796.80	149841.84	149886.88	149931.92	149976.95
872.5	150022.00	150067.05	150112.08	150157.12	150202.16	150247.20	150292.23	150337.28	150382.31	150427.36
872.6	150472.41	150517.44	150562.48	150607.52	150652.56	150697.59	150742.64	150787.69	150832.72	150877.77
872.7	150922.80	150967.84	151012.88	151057.92	151102.95	151148.00	151193.05	151238.08	151283.12	151328.16
872.8	151373.20	151418.23	151463.28	151508.31	151553.36	151598.41	151643.44	151688.48	151733.52	151778.56
872.9	151823.59	151868.64	151913.69	151958.72	152003.77	152048.80	152093.84	152138.88	152183.92	152228.95
873.0	152274.00	152319.92	152365.84	152411.77	152457.69	152503.59	152549.52	152595.44	152641.36	152687.28
873.1	152733.20	152779.12	152825.05	152870.95	152916.88	152962.80	153008.72	153054.64	153100.56	153146.48
873.2	153192.41	153238.31	153284.23	153330.16	153376.08	153422.00	153467.92	153513.84	153559.77	153605.69
873.3	153651.59	153697.52	153743.44	153789.36	153835.28	153881.20	153927.12	153973.05	154018.95	154064.88
873.4	154110.80	154156.72	154202.64	154248.56	154294.48	154340.41	154386.31	154432.23	154478.16	154524.08
873.5	154570.00	154615.92	154661.84	154707.77	154753.69	154799.59	154845.52	154891.44	154937.36	154983.28
873.6	155029.20	155075.12	155121.05	155166.95	155212.88	155258.80	155304.72	155350.64	155396.56	155442.48
873.7	155488.41	155534.31	155580.23	155626.16	155672.08	155718.00	155763.92	155809.84	155855.77	155901.69
873.8	155947.59	155993.52	156039.44	156085.36	156131.28	156177.20	156223.12	156269.05	156314.95	156360.88
873.9	156406.80	156452.72	156498.64	156544.56	156590.48	156636.41	156682.31	156728.23	156774.16	156820.08
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
874.0	156866.00	156912.80	156959.59	157006.41	157053.20	157100.00	157146.80	157193.59	157240.41	157287.20
874.1	157334.00	157380.80	157427.59	157474.41	157521.20	157568.00	157614.80	157661.59	157708.41	157755.20
874.2	157802.00	157848.80	157895.59	157942.41	157989.20	158036.00	158082.80	158129.59	158176.41	158223.20
874.3	158270.00	158316.80	158363.59	158410.41	158457.20	158504.00	158550.80	158597.59	158644.41	158691.20
874.4	158738.00	158784.80	158831.59	158878.41	158925.20	158972.00	159018.80	159065.59	159112.41	159159.20
874.5	159206.00	159252.80	159299.59	159346.41	159393.20	159440.00	159486.80	159533.59	159580.41	159627.20
874.6	159674.00	159720.80	159767.59	159814.41	159861.20	159908.00	159954.80	160001.59	160048.41	160095.20
874.7	160142.00	160188.80	160235.59	160282.41	160329.20	160376.00	160422.80	160469.59	160516.41	160563.20
874.8	160610.00	160656.80	160703.59	160750.41	160797.20	160844.00	160890.80	160937.59	160984.41	161031.20
874.9	161078.00	161124.80	161171.59	161218.41	161265.20	161312.00	161358.80	161405.59	161452.41	161499.20
875.0	161546.00	161593.70	161641.42	161689.12	161736.84	161784.55	161832.27	161879.97	161927.69	161975.39
875.1	162023.09	162070.81	162118.52	162166.23	162213.94	162261.66	162309.36	162357.06	162404.78	162452.48
875.2	162500.20	162547.91	162595.62	162643.33	162691.05	162738.75	162786.45	162834.17	162881.88	162929.59
875.3	162977.30	163025.02	163072.72	163120.44	163168.14	163215.84	163263.56	163311.27	163358.98	163406.69
875.4	163454.41	163502.11	163549.81	163597.53	163645.23	163692.95	163740.66	163788.38	163836.08	163883.80
875.5	163931.50	163979.20	164026.92	164074.62	164122.34	164170.05	164217.77	164265.47	164313.19	164360.89
875.6	164408.59	164456.31	164504.02	164551.73	164599.44	164647.16	164694.86	164742.56	164790.28	164837.98
875.7	164885.70	164933.41	164981.12	165028.83	165076.55	165124.25	165171.95	165219.67	165267.38	165315.09
875.8	165362.80	165410.52	165458.22	165505.94	165553.64	165601.34	165649.06	165696.77	165744.48	165792.19
875.9	165839.91	165887.61	165935.31	165983.03	166030.73	166078.45	166126.16	166173.88	166221.58	166269.30
876.0	166317.00	166365.64	166414.28	166462.92	166511.56	166560.20	166608.84	166657.48	166706.12	166754.77
876.1	166803.41	166852.05	166900.69	166949.31	166997.95	167046.59	167095.23	167143.88	167192.52	167241.16
876.2	167289.80	167338.44	167387.08	167435.72	167484.36	167533.00	167581.64	167630.28	167678.92	167727.56
876.3	167776.20	167824.84	167873.48	167922.12	167970.77	168019.41	168068.05	168116.69	168165.31	168213.95
876.4	168262.59	168311.23	168359.88	168408.52	168457.16	168505.80	168554.44	168603.08	168651.72	168700.36
876.5	168749.00	168797.64	168846.28	168894.92	168943.56	168992.20	169040.84	169089.48	169138.12	169186.77
876.6	169235.41	169284.05	169332.69	169381.31	169429.95	169478.59	169527.23	169575.88	169624.52	169673.16
876.7	169721.80	169770.44	169819.08	169867.72	169916.36	169965.00	170013.64	170062.28	170110.92	170159.56
876.8	170208.20	170256.84	170305.48	170354.12	170402.77	170451.41	170500.05	170548.69	170597.31	170645.95
876.9	170694.59	170743.23	170791.88	170840.52	170889.16	170937.80	170986.44	171035.08	171083.72	171132.36
877.0	171181.00	171230.53	171280.06	171329.59	171379.12	171428.66	171478.19	171527.70	171577.23	171626.77
877.1	171676.30	171725.83	171775.36	171824.89	171874.42	171923.95	171973.48	172023.02	172072.55	172122.06
877.2	172171.59	172221.12	172270.66	172320.19	172369.72	172419.25	172468.78	172518.31	172567.84	172617.38
877.3	172666.91	172716.44	172765.95	172815.48	172865.02	172914.55	172964.08	173013.61	173063.14	173112.67
877.4	173162.20	173211.73	173261.27	173310.80	173360.31	173409.84	173459.38	173508.91	173558.44	173607.97
877.5	173657.50	173707.03	173756.56	173806.09	173855.62	173905.16	173954.69	174004.20	174053.73	174103.27
877.6	174152.80	174202.33	174251.86	174301.39	174350.92	174400.45	174449.98	174499.52	174549.05	174598.56
877.7	174648.09	174697.62	174747.16	174796.69	174846.22	174895.75	174945.28	174994.81	175044.34	175093.88
877.8	175143.41	175192.94	175242.45	175291.98	175341.52	175391.05	175440.58	175490.11	175539.64	175589.17
877.9	175638.70	175688.23	175737.77	175787.30	175836.81	175886.34	175935.88	175985.41	176034.94	176084.47
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
878.0	176134.00	176184.44	176234.86	176285.30	176335.72	176386.16	176436.58	176487.02	176537.44	176587.88
878.1	176638.30	176688.73	176739.16	176789.59	176840.02	176890.45	176940.88	176991.31	177041.73	177092.17
878.2	177142.59	177193.03	177243.45	177293.89	177344.31	177394.75	177445.19	177495.61	177546.05	177596.47
878.3	177646.91	177697.33	177747.77	177798.19	177848.62	177899.05	177949.48	177999.91	178050.34	178100.77
878.4	178151.20	178201.62	178252.06	178302.48	178352.92	178403.34	178453.78	178504.20	178554.64	178605.06
878.5	178655.50	178705.94	178756.36	178806.80	178857.22	178907.66	178958.08	179008.52	179058.94	179109.38
878.6	179159.80	179210.23	179260.66	179311.09	179361.52	179411.95	179462.38	179512.81	179563.23	179613.67
878.7	179664.09	179714.53	179764.95	179815.39	179865.81	179916.25	179966.69	180017.11	180067.55	180117.97
878.8	180168.41	180218.83	180269.27	180319.69	180370.12	180420.55	180470.98	180521.41	180571.84	180622.27
878.9	180672.70	180723.12	180773.56	180823.98	180874.42	180924.84	180975.28	181025.70	181076.14	181126.56
879.0	181177.00	181228.36	181279.72	181331.08	181382.44	181433.80	181485.16	181536.52	181587.88	181639.23
879.1	181690.59	181741.95	181793.31	181844.69	181896.05	181947.41	181998.77	182050.12	182101.48	182152.84
879.2	182204.20	182255.56	182306.92	182358.28	182409.64	182461.00	182512.36	182563.72	182615.08	182666.44
879.3	182717.80	182769.16	182820.52	182871.88	182923.23	182974.59	183025.95	183077.31	183128.69	183180.05
879.4	183231.41	183282.77	183334.12	183385.48	183436.84	183488.20	183539.56	183590.92	183642.28	183693.64
879.5	183745.00	183796.36	183847.72	183899.08	183950.44	184001.80	184053.16	184104.52	184155.88	184207.23
879.6	184258.59	184309.95	184361.31	184412.69	184464.05	184515.41	184566.77	184618.12	184669.48	184720.84
879.7	184772.20	184823.56	184874.92	184926.28	184977.64	185029.00	185080.36	185131.72	185183.08	185234.44
879.8	185285.80	185337.16	185388.52	185439.88	185491.23	185542.59	185593.95	185645.31	185696.69	185748.05
879.9	185799.41	185850.77	185902.12	185953.48	186004.84	186056.20	186107.56	186158.92	186210.28	186261.64
880.0	186313.00	186365.30	186417.58	186469.88	186522.16	186574.45	186626.73	186679.03	186731.31	186783.61
880.1	186835.91	186888.19	186940.48	186992.77	187045.06	187097.34	187149.64	187201.94	187254.22	187306.52
880.2	187358.80	187411.09	187463.38	187515.67	187567.95	187620.25	187672.55	187724.83	187777.12	187829.41
880.3	187881.70	187933.98	187986.28	188038.56	188090.86	188143.16	188195.44	188247.73	188300.02	188352.31
880.4	188404.59	188456.89	188509.19	188561.47	188613.77	188666.05	188718.34	188770.62	188822.92	188875.20
880.5	188927.50	188979.80	189032.08	189084.38	189136.66	189188.95	189241.23	189293.53	189345.81	189398.11
880.6	189450.41	189502.69	189554.98	189607.27	189659.56	189711.84	189764.14	189816.44	189868.72	189921.02
880.7	189973.30	190025.59	190077.88	190130.17	190182.45	190234.75	190287.05	190339.33	190391.62	190443.91
880.8	190496.20	190548.48	190600.78	190653.06	190705.36	190757.66	190809.94	190862.23	190914.52	190966.81
880.9	191019.09	191071.39	191123.69	191175.97	191228.27	191280.55	191332.84	191385.12	191437.42	191489.70
881.0	191542.00	191595.20	191648.42	191701.62	191754.84	191808.05	191861.27	191914.47	191967.69	192020.89
881.1	192074.09	192127.31	192180.52	192233.73	192286.94	192340.16	192393.36	192446.56	192499.78	192552.98
881.2	192606.20	192659.41	192712.62	192765.83	192819.05	192872.25	192925.45	192978.67	193031.88	193085.09
881.3	193138.30	193191.52	193244.72	193297.94	193351.14	193404.34	193457.56	193510.77	193563.98	193617.19
881.4	193670.41	193723.61	193776.81	193830.03	193883.23	193936.45	193989.66	194042.88	194096.08	194149.30
881.5	194202.50	194255.70	194308.92	194362.12	194415.34	194468.55	194521.77	194574.97	194628.19	194681.39
881.6	194734.59	194787.81	194841.02	194894.23	194947.44	195000.66	195053.86	195107.06	195160.28	195213.48
881.7	195266.70	195319.91	195373.12	195426.33	195479.55	195532.75	195585.95	195639.17	195692.38	195745.59
881.8	195798.80	195852.02	195905.22	195958.44	196011.64	196064.84	196118.06	196171.27	196224.48	196277.69
881.9	196330.91	196384.11	196437.31	196490.53	196543.73	196596.95	196650.16	196703.38	196756.58	196809.80
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
882.0	196863.00	196917.14	196971.28	197025.42	197079.56	197133.70	197187.84	197241.98	197296.12	197350.27
882.1	197404.41	197458.55	197512.69	197566.81	197620.95	197675.09	197729.23	197783.38	197837.52	197891.66
882.2	197945.80	197999.94	198054.08	198108.22	198162.36	198216.50	198270.64	198324.78	198378.92	198433.06
882.3	198487.20	198541.34	198595.48	198649.62	198703.77	198757.91	198812.05	198866.19	198920.31	198974.45
882.4	199028.59	199082.73	199136.88	199191.02	199245.16	199299.30	199353.44	199407.58	199461.72	199515.86
882.5	199570.00	199624.14	199678.28	199732.42	199786.56	199840.70	199894.84	199948.98	200003.12	200057.27
882.6	200111.41	200165.55	200219.69	200273.81	200327.95	200382.09	200436.23	200490.38	200544.52	200598.66
882.7	200652.80	200706.94	200761.08	200815.22	200869.36	200923.50	200977.64	201031.78	201085.92	201140.06
882.8	201194.20	201248.34	201302.48	201356.62	201410.77	201464.91	201519.05	201573.19	201627.31	201681.45
882.9	201735.59	201789.73	201843.88	201898.02	201952.16	202006.30	202060.44	202114.58	202168.72	202222.86
883.0	202277.00	202332.06	202387.14	202442.20	202497.28	202552.34	202607.42	202662.48	202717.56	202772.62
883.1	202827.70	202882.77	202937.84	202992.91	203047.98	203103.05	203158.12	203213.19	203268.27	203323.33
883.2	203378.41	203433.47	203488.55	203543.61	203598.69	203653.75	203708.81	203763.89	203818.95	203874.03
883.3	203929.09	203984.17	204039.23	204094.31	204149.38	204204.45	204259.52	204314.59	204369.66	204424.73
883.4	204479.80	204534.88	204589.94	204645.02	204700.08	204755.16	204810.22	204865.30	204920.36	204975.44
883.5	205030.50	205085.56	205140.64	205195.70	205250.78	205305.84	205360.92	205415.98	205471.06	205526.12
883.6	205581.20	205636.27	205691.34	205746.41	205801.48	205856.55	205911.62	205966.69	206021.77	206076.83
883.7	206131.91	206186.97	206242.05	206297.11	206352.19	206407.25	206462.31	206517.39	206572.45	206627.53
883.8	206682.59	206737.67	206792.73	206847.81	206902.88	206957.95	207013.02	207068.09	207123.16	207178.23
883.9	207233.30	207288.38	207343.44	207398.52	207453.58	207508.66	207563.72	207618.80	207673.86	207728.94
884.0	207784.00	207840.02	207896.05	207952.06	208008.08	208064.09	208120.12	208176.14	208232.16	208288.19
884.1	208344.20	208400.22	208456.23	208512.27	208568.28	208624.30	208680.31	208736.34	208792.36	208848.38
884.2	208904.41	208960.42	209016.44	209072.45	209128.48	209184.50	209240.52	209296.55	209352.56	209408.58
884.3	209464.59	209520.62	209576.64	209632.66	209688.69	209744.70	209800.72	209856.73	209912.77	209968.78
884.4	210024.80	210080.81	210136.84	210192.86	210248.88	210304.91	210360.92	210416.94	210472.95	210528.98
884.5	210585.00	210641.02	210697.05	210753.06	210809.08	210865.09	210921.12	210977.14	211033.16	211089.19
884.6	211145.20	211201.22	211257.23	211313.27	211369.28	211425.30	211481.31	211537.34	211593.36	211649.38
884.7	211705.41	211761.42	211817.44	211873.45	211929.48	211985.50	212041.52	212097.55	212153.56	212209.58
884.8	212265.59	212321.62	212377.64	212433.66	212489.69	212545.70	212601.72	212657.73	212713.77	212769.78
884.9	212825.80	212881.81	212937.84	212993.86	213049.88	213105.91	213161.92	213217.94	213273.95	213329.98
885.0	213386.00	213442.98	213499.95	213556.94	213613.92	213670.91	213727.88	213784.86	213841.84	213898.81
885.1	213955.80	214012.78	214069.77	214126.73	214183.72	214240.70	214297.69	214354.66	214411.64	214468.62
885.2	214525.59	214582.58	214639.56	214696.55	214753.52	214810.50	214867.48	214924.45	214981.44	215038.42
885.3	215095.41	215152.38	215209.36	215266.34	215323.31	215380.30	215437.28	215494.27	215551.23	215608.22
885.4	215665.20	215722.19	215779.16	215836.14	215893.12	215950.09	216007.08	216064.06	216121.05	216178.02
885.5	216235.00	216291.98	216348.95	216405.94	216462.92	216519.91	216576.88	216633.86	216690.84	216747.81
885.6	216804.80	216861.78	216918.77	216975.73	217032.72	217089.70	217146.69	217203.66	217260.64	217317.62
885.7	217374.59	217431.58	217488.56	217545.55	217602.52	217659.50	217716.48	217773.45	217830.44	217887.42
885.8	217944.41	218001.38	218058.36	218115.34	218172.31	218229.30	218286.28	218343.27	218400.23	218457.22
885.9	218514.20	218571.19	218628.16	218685.14	218742.12	218799.09	218856.08	218913.06	218970.05	219027.02
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
886.0	219084.00	219141.97	219199.94	219257.91	219315.88	219373.84	219431.81	219489.80	219547.77	219605.73
886.1	219663.70	219721.67	219779.64	219837.61	219895.58	219953.55	220011.52	220069.48	220127.45	220185.44
886.2	220243.41	220301.38	220359.34	220417.31	220475.28	220533.25	220591.22	220649.19	220707.16	220765.12
886.3	220823.09	220881.06	220939.05	220997.02	221054.98	221112.95	221170.92	221228.89	221286.86	221344.83
886.4	221402.80	221460.77	221518.73	221576.70	221634.69	221692.66	221750.62	221808.59	221866.56	221924.53
886.5	221982.50	222040.47	222098.44	222156.41	222214.38	222272.34	222330.31	222388.30	222446.27	222504.23
886.6	222562.20	222620.17	222678.14	222736.11	222794.08	222852.05	222910.02	222967.98	223025.95	223083.94
886.7	223141.91	223199.88	223257.84	223315.81	223373.78	223431.75	223489.72	223547.69	223605.66	223663.62
886.8	223721.59	223779.56	223837.55	223895.52	223953.48	224011.45	224069.42	224127.39	224185.36	224243.33
886.9	224301.30	224359.27	224417.23	224475.20	224533.19	224591.16	224649.12	224707.09	224765.06	224823.03
887.0	224881.00	224939.97	224998.94	225057.91	225116.88	225175.84	225234.81	225293.80	225352.77	225411.73
887.1	225470.70	225529.67	225588.64	225647.61	225706.58	225765.55	225824.52	225883.48	225942.45	226001.44
887.2	226060.41	226119.38	226178.34	226237.31	226296.28	226355.25	226414.22	226473.19	226532.16	226591.12
887.3	226650.09	226709.06	226768.05	226827.02	226885.98	226944.95	227003.92	227062.89	227121.86	227180.83
887.4	227239.80	227298.77	227357.73	227416.70	227475.69	227534.66	227593.62	227652.59	227711.56	227770.53
887.5	227829.50	227888.47	227947.44	228006.41	228065.38	228124.34	228183.31	228242.30	228301.27	228360.23
887.6	228419.20	228478.17	228537.14	228596.11	228655.08	228714.05	228773.02	228831.98	228890.95	228949.94
887.7	229008.91	229067.88	229126.84	229185.81	229244.78	229303.75	229362.72	229421.69	229480.66	229539.62
887.8	229598.59	229657.56	229716.55	229775.52	229834.48	229893.45	229952.42	230011.39	230070.36	230129.33
887.9	230188.30	230247.27	230306.23	230365.20	230424.19	230483.16	230542.12	230601.09	230660.06	230719.03
888.0	230778.00	230837.95	230897.92	230957.88	231017.84	231077.80	231137.77	231197.72	231257.69	231317.64
888.1	231377.59	231437.56	231497.52	231557.48	231617.44	231677.41	231737.36	231797.31	231857.28	231917.23
888.2	231977.20	232037.16	232097.12	232157.08	232217.05	232277.00	232336.95	232396.92	232456.88	232516.84
888.3	232576.80	232636.77	232696.72	232756.69	232816.64	232876.59	232936.56	232996.52	233056.48	233116.44
888.4	233176.41	233236.36	233296.31	233356.28	233416.23	233476.20	233536.16	233596.12	233656.08	233716.05
888.5	233776.00	233835.95	233895.92	233955.88	234015.84	234075.80	234135.77	234195.72	234255.69	234315.64
888.6	234375.59	234435.56	234495.52	234555.48	234615.44	234675.41	234735.36	234795.31	234855.28	234915.23
888.7	234975.20	235035.16	235095.12	235155.08	235215.05	235275.00	235334.95	235394.92	235454.88	235514.84
888.8	235574.80	235634.77	235694.72	235754.69	235814.64	235874.59	235934.56	235994.52	236054.48	236114.44
888.9	236174.41	236234.36	236294.31	236354.28	236414.23	236474.20	236534.16	236594.12	236654.08	236714.05
889.0	236774.00	236834.98	236895.95	236956.94	237017.92	237078.91	237139.88	237200.86	237261.84	237322.81
889.1	237383.80	237444.78	237505.77	237566.73	237627.72	237688.70	237749.69	237810.66	237871.64	237932.62
889.2	237993.59	238054.58	238115.56	238176.55	238237.52	238298.50	238359.48	238420.45	238481.44	238542.42
889.3	238603.41	238664.38	238725.36	238786.34	238847.31	238908.30	238969.28	239030.27	239091.23	239152.22
889.4	239213.20	239274.19	239335.16	239396.14	239457.12	239518.09	239579.08	239640.06	239701.05	239762.02
889.5	239823.00	239883.98	239944.95	240005.94	240066.92	240127.91	240188.88	240249.86	240310.84	240371.81
889.6	240432.80	240493.78	240554.77	240615.73	240676.72	240737.70	240798.69	240859.66	240920.64	240981.62
889.7	241042.59	241103.58	241164.56	241225.55	241286.52	241347.50	241408.48	241469.45	241530.44	241591.42
889.8	241652.41	241713.38	241774.36	241835.34	241896.31	241957.30	242018.28	242079.27	242140.23	242201.22
889.9	242262.20	242323.19	242384.16	242445.14	242506.12	242567.09	242628.08	242689.06	242750.05	242811.02
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
890.0	242872.00	242933.98	242995.95	243057.94	243119.92	243181.91	243243.88	243305.86	243367.84	243429.81
890.1	243491.80	243553.78	243615.77	243677.73	243739.72	243801.70	243863.69	243925.66	243987.64	244049.62
890.2	244111.59	244173.58	244235.56	244297.55	244359.52	244421.50	244483.48	244545.45	244607.44	244669.42
890.3	244731.41	244793.38	244855.36	244917.34	244979.31	245041.30	245103.28	245165.27	245227.23	245289.22
890.4	245351.20	245413.19	245475.16	245537.14	245599.12	245661.09	245723.08	245785.06	245847.05	245909.02
890.5	245971.00	246032.98	246094.95	246156.94	246218.92	246280.91	246342.88	246404.86	246466.84	246528.81
890.6	246590.80	246652.78	246714.77	246776.73	246838.72	246900.70	246962.69	247024.66	247086.64	247148.62
890.7	247210.59	247272.58	247334.56	247396.55	247458.52	247520.50	247582.48	247644.45	247706.44	247768.42
890.8	247830.41	247892.38	247954.36	248016.34	248078.31	248140.30	248202.28	248264.27	248326.23	248388.22
890.9	248450.20	248512.19	248574.16	248636.14	248698.12	248760.09	248822.08	248884.06	248946.05	249008.02
891.0	249070.00	249133.02	249196.02	249259.03	249322.05	249385.05	249448.06	249511.06	249574.08	249637.09
891.1	249700.09	249763.11	249826.12	249889.12	249952.14	250015.16	250078.16	250141.17	250204.19	250267.19
891.2	250330.20	250393.20	250456.22	250519.23	250582.23	250645.25	250708.27	250771.27	250834.28	250897.30
891.3	250960.30	251023.31	251086.31	251149.33	251212.34	251275.34	251338.36	251401.38	251464.38	251527.39
891.4	251590.41	251653.41	251716.42	251779.44	251842.44	251905.45	251968.45	252031.47	252094.48	252157.48
891.5	252220.50	252283.52	252346.52	252409.53	252472.55	252535.55	252598.56	252661.56	252724.58	252787.59
891.6	252850.59	252913.61	252976.62	253039.62	253102.64	253165.66	253228.66	253291.67	253354.69	253417.69
891.7	253480.70	253543.70	253606.72	253669.73	253732.73	253795.75	253858.77	253921.77	253984.78	254047.80
891.8	254110.80	254173.81	254236.81	254299.83	254362.84	254425.84	254488.86	254551.88	254614.88	254677.89
891.9	254740.91	254803.91	254866.92	254929.94	254992.94	255055.95	255118.95	255181.97	255244.98	255307.98
892.0	255371.00	255435.02	255499.02	255563.03	255627.05	255691.05	255755.06	255819.06	255883.08	255947.09
892.1	256011.09	256075.11	256139.12	256203.12	256267.14	256331.16	256395.16	256459.17	256523.19	256587.19
892.2	256651.20	256715.20	256779.22	256843.23	256907.23	256971.25	257035.27	257099.27	257163.28	257227.30
892.3	257291.30	257355.31	257419.31	257483.33	257547.34	257611.34	257675.36	257739.38	257803.38	257867.39
892.4	257931.41	257995.41	258059.42	258123.44	258187.44	258251.45	258315.45	258379.47	258443.48	258507.48
892.5	258571.50	258635.52	258699.52	258763.53	258827.55	258891.55	258955.56	259019.56	259083.58	259147.59
892.6	259211.59	259275.61	259339.62	259403.62	259467.64	259531.66	259595.66	259659.67	259723.69	259787.69
892.7	259851.70	259915.70	259979.72	260043.73	260107.73	260171.75	260235.77	260299.77	260363.78	260427.80
892.8	260491.80	260555.81	260619.81	260683.83	260747.84	260811.84	260875.86	260939.88	261003.88	261067.89
892.9	261131.91	261195.91	261259.92	261323.94	261387.94	261451.95	261515.95	261579.97	261643.98	261707.98
893.0	261772.00	261837.03	261902.06	261967.09	262032.12	262097.16	262162.19	262227.22	262292.25	262357.28
893.1	262422.31	262487.34	262552.38	262617.38	262682.41	262747.44	262812.47	262877.50	262942.53	263007.56
893.2	263072.59	263137.62	263202.66	263267.69	263332.72	263397.75	263462.78	263527.81	263592.84	263657.88
893.3	263722.91	263787.94	263852.97	263918.00	263983.03	264048.06	264113.09	264178.12	264243.12	264308.16
893.4	264373.19	264438.22	264503.25	264568.28	264633.31	264698.34	264763.38	264828.41	264893.44	264958.47
893.5	265023.50	265088.53	265153.56	265218.59	265283.62	265348.66	265413.69	265478.72	265543.75	265608.78
893.6	265673.81	265738.84	265803.88	265868.88	265933.91	265998.94	266063.97	266129.00	266194.03	266259.06
893.7	266324.09	266389.12	266454.16	266519.19	266584.22	266649.25	266714.28	266779.31	266844.34	266909.38
893.8	266974.41	267039.44	267104.47	267169.50	267234.53	267299.56	267364.59	267429.62	267494.62	267559.66
893.9	267624.69	267689.72	267754.75	267819.78	267884.81	267949.84	268014.88	268079.91	268144.94	268209.97
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
894.0	268275.00	268341.06	268407.09	268473.16	268539.19	268605.25	268671.31	268737.34	268803.41	268869.44
894.1	268935.50	269001.56	269067.59	269133.66	269199.69	269265.75	269331.81	269397.84	269463.91	269529.94
894.2	269596.00	269662.06	269728.09	269794.16	269860.19	269926.25	269992.31	270058.34	270124.41	270190.44
894.3	270256.50	270322.56	270388.59	270454.66	270520.69	270586.75	270652.81	270718.84	270784.91	270850.94
894.4	270917.00	270983.06	271049.09	271115.16	271181.19	271247.25	271313.31	271379.34	271445.41	271511.44
894.5	271577.50	271643.56	271709.59	271775.66	271841.69	271907.75	271973.81	272039.84	272105.91	272171.94
894.6	272238.00	272304.06	272370.09	272436.16	272502.19	272568.25	272634.31	272700.34	272766.41	272832.44
894.7	272898.50	272964.56	273030.59	273096.66	273162.69	273228.75	273294.81	273360.84	273426.91	273492.94
894.8	273559.00	273625.06	273691.09	273757.16	273823.19	273889.25	273955.31	274021.34	274087.41	274153.44
894.9	274219.50	274285.56	274351.59	274417.66	274483.69	274549.75	274615.81	274681.84	274747.91	274813.94
895.0	274880.00	274947.09	275014.16	275081.25	275148.31	275215.41	275282.47	275349.56	275416.62	275483.72
895.1	275550.81	275617.88	275684.97	275752.03	275819.12	275886.19	275953.28	276020.38	276087.44	276154.53
895.2	276221.59	276288.69	276355.75	276422.84	276489.91	276557.00	276624.09	276691.16	276758.25	276825.31
895.3	276892.41	276959.47	277026.56	277093.62	277160.72	277227.81	277294.88	277361.97	277429.03	277496.12
895.4	277563.19	277630.28	277697.38	277764.44	277831.53	277898.59	277965.69	278032.75	278099.84	278166.91
895.5	278234.00	278301.09	278368.16	278435.25	278502.31	278569.41	278636.47	278703.56	278770.62	278837.72
895.6	278904.81	278971.88	279038.97	279106.03	279173.12	279240.19	279307.28	279374.38	279441.44	279508.53
895.7	279575.59	279642.69	279709.75	279776.84	279843.91	279911.00	279978.09	280045.16	280112.25	280179.31
895.8	280246.41	280313.47	280380.56	280447.62	280514.72	280581.81	280648.88	280715.97	280783.03	280850.12
895.9	280917.19	280984.28	281051.38	281118.44	281185.53	281252.59	281319.69	281386.75	281453.84	281520.91
896.0	281588.00	281656.12	281724.25	281792.38	281860.47	281928.59	281996.72	282064.84	282132.97	282201.09
896.1	282269.19	282337.31	282405.44	282473.56	282541.69	282609.81	282677.91	282746.03	282814.16	282882.28
896.2	282950.41	283018.53	283086.62	283154.75	283222.88	283291.00	283359.12	283427.25	283495.38	283563.47
896.3	283631.59	283699.72	283767.84	283835.97	283904.09	283972.19	284040.31	284108.44	284176.56	284244.69
896.4	284312.81	284380.91	284449.03	284517.16	284585.28	284653.41	284721.53	284789.62	284857.75	284925.88
896.5	284994.00	285062.12	285130.25	285198.38	285266.47	285334.59	285402.72	285470.84	285538.97	285607.09
896.6	285675.19	285743.31	285811.44	285879.56	285947.69	286015.81	286083.91	286152.03	286220.16	286288.28
896.7	286356.41	286424.53	286492.62	286560.75	286628.88	286697.00	286765.12	286833.25	286901.38	286969.47
896.8	287037.59	287105.72	287173.84	287241.97	287310.09	287378.19	287446.31	287514.44	287582.56	287650.69
896.9	287718.81	287786.91	287855.03	287923.16	287991.28	288059.41	288127.53	288195.62	288263.75	288331.88
897.0	288400.00	288469.16	288538.34	288607.50	288676.69	288745.84	288815.03	288884.19	288953.38	289022.53
897.1	289091.69	289160.88	289230.03	289299.22	289368.38	289437.56	289506.72	289575.88	289645.06	289714.22
897.2	289783.41	289852.56	289921.75	289990.91	290060.09	290129.25	290198.41	290267.59	290336.75	290405.94
897.3	290475.09	290544.28	290613.44	290682.62	290751.78	290820.94	290890.12	290959.28	291028.47	291097.62
897.4	291166.81	291235.97	291305.12	291374.31	291443.47	291512.66	291581.81	291651.00	291720.16	291789.34
897.5	291858.50	291927.66	291996.84	292066.00	292135.19	292204.34	292273.53	292342.69	292411.88	292481.03
897.6	292550.19	292619.38	292688.53	292757.72	292826.88	292896.06	292965.22	293034.38	293103.56	293172.72
897.7	293241.91	293311.06	293380.25	293449.41	293518.59	293587.75	293656.91	293726.09	293795.25	293864.44
897.8	293933.59	294002.78	294071.94	294141.12	294210.28	294279.44	294348.62	294417.78	294486.97	294556.12
897.9	294625.31	294694.47	294763.62	294832.81	294901.97	294971.16	295040.31	295109.50	295178.66	295247.84
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
898.0	295317.00	295387.22	295457.44	295527.66	295597.88	295668.09	295738.31	295808.53	295878.75	295948.97
898.1	296019.19	296089.41	296159.62	296229.88	296300.09	296370.31	296440.53	296510.75	296580.97	296651.19
898.2	296721.41	296791.62	296861.84	296932.06	297002.28	297072.50	297142.72	297212.94	297283.16	297353.38
898.3	297423.59	297493.81	297564.03	297634.25	297704.47	297774.69	297844.91	297915.12	297985.38	298055.59
898.4	298125.81	298196.03	298266.25	298336.47	298406.69	298476.91	298547.12	298617.34	298687.56	298757.78
898.5	298828.00	298898.22	298968.44	299038.66	299108.88	299179.09	299249.31	299319.53	299389.75	299459.97
898.6	299530.19	299600.41	299670.62	299740.88	299811.09	299881.31	299951.53	300021.75	300091.97	300162.19
898.7	300232.41	300302.62	300372.84	300443.06	300513.28	300583.50	300653.72	300723.94	300794.16	300864.38
898.8	300934.59	301004.81	301075.03	301145.25	301215.47	301285.69	301355.91	301426.12	301496.38	301566.59
898.9	301636.81	301707.03	301777.25	301847.47	301917.69	301987.91	302058.12	302128.34	302198.56	302268.78
899.0	302339.00	302410.31	302481.62	302552.94	302624.25	302695.56	302766.88	302838.16	302909.47	302980.78
899.1	303052.09	303123.41	303194.72	303266.03	303337.34	303408.66	303479.97	303551.28	303622.59	303693.88
899.2	303765.19	303836.50	303907.81	303979.12	304050.44	304121.75	304193.06	304264.38	304335.69	304407.00
899.3	304478.31	304549.62	304620.91	304692.22	304763.53	304834.84	304906.16	304977.47	305048.78	305120.09
899.4	305191.41	305262.72	305334.03	305405.34	305476.62	305547.94	305619.25	305690.56	305761.88	305833.19
899.5	305904.50	305975.81	306047.12	306118.44	306189.75	306261.06	306332.38	306403.66	306474.97	306546.28
899.6	306617.59	306688.91	306760.22	306831.53	306902.84	306974.16	307045.47	307116.78	307188.09	307259.38
899.7	307330.69	307402.00	307473.31	307544.62	307615.94	307687.25	307758.56	307829.88	307901.19	307972.50
899.8	308043.81	308115.12	308186.41	308257.72	308329.03	308400.34	308471.66	308542.97	308614.28	308685.59
899.9	308756.91	308828.22	308899.53	308970.84	309042.12	309113.44	309184.75	309256.06	309327.38	309398.69
900.0	309470.00	309542.44	309614.88	309687.28	309759.72	309832.16	309904.59	309977.00	310049.44	310121.88
900.1	310194.31	310266.72	310339.16	310411.59	310484.03	310556.44	310628.88	310701.31	310773.75	310846.16
900.2	310918.59	310991.03	311063.47	311135.88	311208.31	311280.75	311353.19	311425.62	311498.03	311570.47
900.3	311642.91	311715.34	311787.75	311860.19	311932.62	312005.06	312077.47	312149.91	312222.34	312294.78
900.4	312367.19	312439.62	312512.06	312584.50	312656.91	312729.34	312801.78	312874.22	312946.62	313019.06
900.5	313091.50	313163.94	313236.38	313308.78	313381.22	313453.66	313526.09	313598.50	313670.94	313743.38
900.6	313815.81	313888.22	313960.66	314033.09	314105.53	314177.94	314250.38	314322.81	314395.25	314467.66
900.7	314540.09	314612.53	314684.97	314757.38	314829.81	314902.25	314974.69	315047.12	315119.53	315191.97
900.8	315264.41	315336.84	315409.25	315481.69	315554.12	315626.56	315698.97	315771.41	315843.84	315916.28
900.9	315988.69	316061.12	316133.56	316206.00	316278.41	316350.84	316423.28	316495.72	316568.12	316640.56
901.0	316713.00	316786.53	316860.09	316933.62	317007.16	317080.69	317154.25	317227.78	317301.31	317374.88
901.1	317448.41	317521.94	317595.47	317669.03	317742.56	317816.09	317889.62	317963.19	318036.72	318110.25
901.2	318183.81	318257.34	318330.88	318404.41	318477.97	318551.50	318625.03	318698.59	318772.12	318845.66
901.3	318919.19	318992.75	319066.28	319139.81	319213.38	319286.91	319360.44	319433.97	319507.53	319581.06
901.4	319654.59	319728.12	319801.69	319875.22	319948.75	320022.31	320095.84	320169.38	320242.91	320316.47
901.5	320390.00	320463.53	320537.09	320610.62	320684.16	320757.69	320831.25	320904.78	320978.31	321051.88
901.6	321125.41	321198.94	321272.47	321346.03	321419.56	321493.09	321566.62	321640.19	321713.72	321787.25
901.7	321860.81	321934.34	322007.88	322081.41	322154.97	322228.50	322302.03	322375.59	322449.12	322522.66
901.8	322596.19	322669.75	322743.28	322816.81	322890.38	322963.91	323037.44	323110.97	323184.53	323258.06
901.9	323331.59	323405.12	323478.69	323552.22	323625.75	323699.31	323772.84	323846.38	323919.91	323993.47
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
902.0	324067.00	324141.69	324216.38	324291.03	324365.72	324440.41	324515.09	324589.75	324664.44	324739.12
902.1	324813.81	324888.47	324963.16	325037.84	325112.53	325187.19	325261.88	325336.56	325411.25	325485.91
902.2	325560.59	325635.28	325709.97	325784.62	325859.31	325934.00	326008.69	326083.38	326158.03	326232.72
902.3	326307.41	326382.09	326456.75	326531.44	326606.12	326680.81	326755.47	326830.16	326904.84	326979.53
902.4	327054.19	327128.88	327203.56	327278.25	327352.91	327427.59	327502.28	327576.97	327651.62	327726.31
902.5	327801.00	327875.69	327950.38	328025.03	328099.72	328174.41	328249.09	328323.75	328398.44	328473.12
902.6	328547.81	328622.47	328697.16	328771.84	328846.53	328921.19	328995.88	329070.56	329145.25	329219.91
902.7	329294.59	329369.28	329443.97	329518.62	329593.31	329668.00	329742.69	329817.38	329892.03	329966.72
902.8	330041.41	330116.09	330190.75	330265.44	330340.12	330414.81	330489.47	330564.16	330638.84	330713.53
902.9	330788.19	330862.88	330937.56	331012.25	331086.91	331161.59	331236.28	331310.97	331385.62	331460.31
903.0	331535.00	331610.88	331686.75	331762.62	331838.47	331914.34	331990.22	332066.09	332141.97	332217.84
903.1	332293.69	332369.56	332445.44	332521.31	332597.19	332673.06	332748.91	332824.78	332900.66	332976.53
903.2	333052.41	333128.28	333204.12	333280.00	333355.88	333431.75	333507.62	333583.50	333659.38	333735.22
903.3	333811.09	333886.97	333962.84	334038.72	334114.59	334190.44	334266.31	334342.19	334418.06	334493.94
903.4	334569.81	334645.66	334721.53	334797.41	334873.28	334949.16	335025.03	335100.88	335176.75	335252.62
903.5	335328.50	335404.38	335480.25	335556.12	335631.97	335707.84	335783.72	335859.59	335935.47	336011.34
903.6	336087.19	336163.06	336238.94	336314.81	336390.69	336466.56	336542.41	336618.28	336694.16	336770.03
903.7	336845.91	336921.78	336997.62	337073.50	337149.38	337225.25	337301.12	337377.00	337452.88	337528.72
903.8	337604.59	337680.47	337756.34	337832.22	337908.09	337983.94	338059.81	338135.69	338211.56	338287.44
903.9	338363.31	338439.16	338515.03	338590.91	338666.78	338742.66	338818.53	338894.38	338970.25	339046.12
904.0	339122.00	339199.09	339276.19	339353.28	339430.38	339507.44	339584.53	339661.62	339738.72	339815.81
904.1	339892.91	339970.00	340047.09	340124.16	340201.25	340278.34	340355.44	340432.53	340509.62	340586.72
904.2	340663.81	340740.88	340817.97	340895.06	340972.16	341049.25	341126.34	341203.44	341280.53	341357.62
904.3	341434.69	341511.78	341588.88	341665.97	341743.06	341820.16	341897.25	341974.34	342051.41	342128.50
904.4	342205.59	342282.69	342359.78	342436.88	342513.97	342591.06	342668.12	342745.22	342822.31	342899.41
904.5	342976.50	343053.59	343130.69	343207.78	343284.88	343361.94	343439.03	343516.12	343593.22	343670.31
904.6	343747.41	343824.50	343901.59	343978.66	344055.75	344132.84	344209.94	344287.03	344364.12	344441.22
904.7	344518.31	344595.38	344672.47	344749.56	344826.66	344903.75	344980.84	345057.94	345135.03	345212.12
904.8	345289.19	345366.28	345443.38	345520.47	345597.56	345674.66	345751.75	345828.84	345905.91	345983.00
904.9	346060.09	346137.19	346214.28	346291.38	346368.47	346445.56	346522.62	346599.72	346676.81	346753.91
905.0	346831.00	346909.31	346987.59	347065.91	347144.19	347222.50	347300.81	347379.09	347457.41	347535.69
905.1	347614.00	347692.31	347770.59	347848.91	347927.19	348005.50	348083.81	348162.09	348240.41	348318.69
905.2	348397.00	348475.31	348553.59	348631.91	348710.19	348788.50	348866.81	348945.09	349023.41	349101.69
905.3	349180.00	349258.31	349336.59	349414.91	349493.19	349571.50	349649.81	349728.09	349806.41	349884.69
905.4	349963.00	350041.31	350119.59	350197.91	350276.19	350354.50	350432.81	350511.09	350589.41	350667.69
905.5	350746.00	350824.31	350902.59	350980.91	351059.19	351137.50	351215.81	351294.09	351372.41	351450.69
905.6	351529.00	351607.31	351685.59	351763.91	351842.19	351920.50	351998.81	352077.09	352155.41	352233.69
905.7	352312.00	352390.31	352468.59	352546.91	352625.19	352703.50	352781.81	352860.09	352938.41	353016.69
905.8	353095.00	353173.31	353251.59	353329.91	353408.19	353486.50	353564.81	353643.09	353721.41	353799.69
905.9	353878.00	353956.31	354034.59	354112.91	354191.19	354269.50	354347.81	354426.09	354504.41	354582.69
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
906.0	354661.00	354740.47	354819.97	354899.44	354978.91	355058.41	355137.88	355217.38	355296.84	355376.31
906.1	355455.81	355535.28	355614.75	355694.25	355773.72	355853.19	355932.69	356012.16	356091.62	356171.12
906.2	356250.59	356330.09	356409.56	356489.03	356568.53	356648.00	356727.47	356806.97	356886.44	356965.91
906.3	357045.41	357124.88	357204.38	357283.84	357363.31	357442.81	357522.28	357601.75	357681.25	357760.72
906.4	357840.19	357919.69	357999.16	358078.62	358158.12	358237.59	358317.09	358396.56	358476.03	358555.53
906.5	358635.00	358714.47	358793.97	358873.44	358952.91	359032.41	359111.88	359191.38	359270.84	359350.31
906.6	359429.81	359509.28	359588.75	359668.25	359747.72	359827.19	359906.69	359986.16	360065.62	360145.12
906.7	360224.59	360304.09	360383.56	360463.03	360542.53	360622.00	360701.47	360780.97	360860.44	360939.91
906.8	361019.41	361098.88	361178.38	361257.84	361337.31	361416.81	361496.28	361575.75	361655.25	361734.72
906.9	361814.19	361893.69	361973.16	362052.62	362132.12	362211.59	362291.09	362370.56	362450.03	362529.53
907.0	362609.00	362689.62	362770.28	362850.91	362931.56	363012.19	363092.84	363173.47	363254.12	363334.75
907.1	363415.41	363496.03	363576.69	363657.31	363737.97	363818.59	363899.25	363979.88	364060.53	364141.16
907.2	364221.81	364302.44	364383.09	364463.72	364544.38	364625.00	364705.62	364786.28	364866.91	364947.56
907.3	365028.19	365108.84	365189.47	365270.12	365350.75	365431.41	365512.03	365592.69	365673.31	365753.97
907.4	365834.59	365915.25	365995.88	366076.53	366157.16	366237.81	366318.44	366399.09	366479.72	366560.38
907.5	366641.00	366721.62	366802.28	366882.91	366963.56	367044.19	367124.84	367205.47	367286.12	367366.75
907.6	367447.41	367528.03	367608.69	367689.31	367769.97	367850.59	367931.25	368011.88	368092.53	368173.16
907.7	368253.81	368334.44	368415.09	368495.72	368576.38	368657.00	368737.62	368818.28	368898.91	368979.56
907.8	369060.19	369140.84	369221.47	369302.12	369382.75	369463.41	369544.03	369624.69	369705.31	369785.97
907.9	369866.59	369947.25	370027.88	370108.53	370189.16	370269.81	370350.44	370431.09	370511.72	370592.38
908.0	370673.00	370754.78	370836.59	370918.38	371000.16	371081.94	371163.75	371245.53	371327.31	371409.12
908.1	371490.91	371572.69	371654.47	371736.28	371818.06	371899.84	371981.62	372063.44	372145.22	372227.00
908.2	372308.81	372390.59	372472.38	372554.16	372635.97	372717.75	372799.53	372881.34	372963.12	373044.91
908.3	373126.69	373208.50	373290.28	373372.06	373453.88	373535.66	373617.44	373699.22	373781.03	373862.81
908.4	373944.59	374026.38	374108.19	374189.97	374271.75	374353.56	374435.34	374517.12	374598.91	374680.72
908.5	374762.50	374844.28	374926.09	375007.88	375089.66	375171.44	375253.25	375335.03	375416.81	375498.62
908.6	375580.41	375662.19	375743.97	375825.78	375907.56	375989.34	376071.12	376152.94	376234.72	376316.50
908.7	376398.31	376480.09	376561.88	376643.66	376725.47	376807.25	376889.03	376970.84	377052.62	377134.41
908.8	377216.19	377298.00	377379.78	377461.56	377543.38	377625.16	377706.94	377788.72	377870.53	377952.31
908.9	378034.09	378115.88	378197.69	378279.47	378361.25	378443.06	378524.84	378606.62	378688.41	378770.22
909.0	378852.00	378935.09	379018.19	379101.31	379184.41	379267.50	379350.59	379433.69	379516.81	379599.91
909.1	379683.00	379766.09	379849.19	379932.31	380015.41	380098.50	380181.59	380264.69	380347.81	380430.91
909.2	380514.00	380597.09	380680.19	380763.31	380846.41	380929.50	381012.59	381095.69	381178.81	381261.91
909.3	381345.00	381428.09	381511.19	381594.31	381677.41	381760.50	381843.59	381926.69	382009.81	382092.91
909.4	382176.00	382259.09	382342.19	382425.31	382508.41	382591.50	382674.59	382757.69	382840.81	382923.91
909.5	383007.00	383090.09	383173.19	383256.31	383339.41	383422.50	383505.59	383588.69	383671.81	383754.91
909.6	383838.00	383921.09	384004.19	384087.31	384170.41	384253.50	384336.59	384419.69	384502.81	384585.91
909.7	384669.00	384752.09	384835.19	384918.31	385001.41	385084.50	385167.59	385250.69	385333.81	385416.91
909.8	385500.00	385583.09	385666.19	385749.31	385832.41	385915.50	385998.59	386081.69	386164.81	386247.91
909.9	386331.00	386414.09	386497.19	386580.31	386663.41	386746.50	386829.59	386912.69	386995.81	387078.91
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
910.0	387162.00	387246.38	387330.75	387415.12	387499.47	387583.84	387668.22	387752.59	387836.97	387921.34
910.1	388005.69	388090.06	388174.44	388258.81	388343.19	388427.56	388511.91	388596.28	388680.66	388765.03
910.2	388849.41	388933.78	389018.12	389102.50	389186.88	389271.25	389355.62	389440.00	389524.38	389608.72
910.3	389693.09	389777.47	389861.84	389946.22	390030.59	390114.94	390199.31	390283.69	390368.06	390452.44
910.4	390536.81	390621.16	390705.53	390789.91	390874.28	390958.66	391043.03	391127.38	391211.75	391296.12
910.5	391380.50	391464.88	391549.25	391633.62	391717.97	391802.34	391886.72	391971.09	392055.47	392139.84
910.6	392224.19	392308.56	392392.94	392477.31	392561.69	392646.06	392730.41	392814.78	392899.16	392983.53
910.7	393067.91	393152.28	393236.62	393321.00	393405.38	393489.75	393574.12	393658.50	393742.88	393827.22
910.8	393911.59	393995.97	394080.34	394164.72	394249.09	394333.44	394417.81	394502.19	394586.56	394670.94
910.9	394755.31	394839.66	394924.03	395008.41	395092.78	395177.16	395261.53	395345.88	395430.25	395514.62
911.0	395599.00	395684.31	395769.62	395854.94	395940.25	396025.56	396110.88	396196.16	396281.47	396366.78
911.1	396452.09	396537.41	396622.72	396708.03	396793.34	396878.66	396963.97	397049.28	397134.59	397219.88
911.2	397305.19	397390.50	397475.81	397561.12	397646.44	397731.75	397817.06	397902.38	397987.69	398073.00
911.3	398158.31	398243.62	398328.91	398414.22	398499.53	398584.84	398670.16	398755.47	398840.78	398926.09
911.4	399011.41	399096.72	399182.03	399267.34	399352.62	399437.94	399523.25	399608.56	399693.88	399779.19
911.5	399864.50	399949.81	400035.12	400120.44	400205.75	400291.06	400376.38	400461.66	400546.97	400632.28
911.6	400717.59	400802.91	400888.22	400973.53	401058.84	401144.16	401229.47	401314.78	401400.09	401485.38
911.7	401570.69	401656.00	401741.31	401826.62	401911.94	401997.25	402082.56	402167.88	402253.19	402338.50
911.8	402423.81	402509.12	402594.41	402679.72	402765.03	402850.34	402935.66	403020.97	403106.28	403191.59
911.9	403276.91	403362.22	403447.53	403532.84	403618.12	403703.44	403788.75	403874.06	403959.38	404044.69
912.0	404130.00	404216.28	404302.53	404388.81	404475.09	404561.34	404647.62	404733.88	404820.16	404906.44
912.1	404992.69	405078.97	405165.25	405251.50	405337.78	405424.06	405510.31	405596.59	405682.88	405769.12
912.2	405855.41	405941.66	406027.94	406114.22	406200.47	406286.75	406373.03	406459.28	406545.56	406631.84
912.3	406718.09	406804.38	406890.62	406976.91	407063.19	407149.44	407235.72	407322.00	407408.25	407494.53
912.4	407580.81	407667.06	407753.34	407839.62	407925.88	408012.16	408098.41	408184.69	408270.97	408357.22
912.5	408443.50	408529.78	408616.03	408702.31	408788.59	408874.84	408961.12	409047.38	409133.66	409219.94
912.6	409306.19	409392.47	409478.75	409565.00	409651.28	409737.56	409823.81	409910.09	409996.38	410082.62
912.7	410168.91	410255.16	410341.44	410427.72	410513.97	410600.25	410686.53	410772.78	410859.06	410945.34
912.8	411031.59	411117.88	411204.12	411290.41	411376.69	411462.94	411549.22	411635.50	411721.75	411808.03
912.9	411894.31	411980.56	412066.84	412153.12	412239.38	412325.66	412411.91	412498.19	412584.47	412670.72
913.0	412757.00	412844.34	412931.69	413019.03	413106.38	413193.69	413281.03	413368.38	413455.72	413543.06
913.1	413630.41	413717.75	413805.09	413892.41	413979.75	414067.09	414154.44	414241.78	414329.12	414416.47
913.2	414503.81	414591.12	414678.47	414765.81	414853.16	414940.50	415027.84	415115.19	415202.53	415289.88
913.3	415377.19	415464.53	415551.88	415639.22	415726.56	415813.91	415901.25	415988.59	416075.91	416163.25
913.4	416250.59	416337.94	416425.28	416512.62	416599.97	416687.31	416774.62	416861.97	416949.31	417036.66
913.5	417124.00	417211.34	417298.69	417386.03	417473.38	417560.69	417648.03	417735.38	417822.72	417910.06
913.6	417997.41	418084.75	418172.09	418259.41	418346.75	418434.09	418521.44	418608.78	418696.12	418783.47
913.7	418870.81	418958.12	419045.47	419132.81	419220.16	419307.50	419394.84	419482.19	419569.53	419656.88
913.8	419744.19	419831.53	419918.88	420006.22	420093.56	420180.91	420268.25	420355.59	420442.91	420530.25
913.9	420617.59	420704.94	420792.28	420879.62	420966.97	421054.31	421141.62	421228.97	421316.31	421403.66
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
914.0	421491.00	421579.47	421667.91	421756.38	421844.84	421933.31	422021.75	422110.22	422198.69	422287.12
914.1	422375.59	422464.06	422552.53	422640.97	422729.44	422817.91	422906.38	422994.81	423083.28	423171.75
914.2	423260.19	423348.66	423437.12	423525.59	423614.03	423702.50	423790.97	423879.41	423967.88	424056.34
914.3	424144.81	424233.25	424321.72	424410.19	424498.62	424587.09	424675.56	424764.03	424852.47	424940.94
914.4	425029.41	425117.88	425206.31	425294.78	425383.25	425471.69	425560.16	425648.62	425737.09	425825.53
914.5	425914.00	426002.47	426090.91	426179.38	426267.84	426356.31	426444.75	426533.22	426621.69	426710.12
914.6	426798.59	426887.06	426975.53	427063.97	427152.44	427240.91	427329.38	427417.81	427506.28	427594.75
914.7	427683.19	427771.66	427860.12	427948.59	428037.03	428125.50	428213.97	428302.41	428390.88	428479.34
914.8	428567.81	428656.25	428744.72	428833.19	428921.62	429010.09	429098.56	429187.03	429275.47	429363.94
914.9	429452.41	429540.88	429629.31	429717.78	429806.25	429894.69	429983.16	430071.62	430160.09	430248.53
915.0	430337.00	430426.66	430516.31	430605.94	430695.59	430785.25	430874.91	430964.56	431054.19	431143.84
915.1	431233.50	431323.16	431412.81	431502.44	431592.09	431681.75	431771.41	431861.06	431950.69	432040.34
915.2	432130.00	432219.66	432309.31	432398.94	432488.59	432578.25	432667.91	432757.56	432847.19	432936.84
915.3	433026.50	433116.16	433205.81	433295.44	433385.09	433474.75	433564.41	433654.06	433743.69	433833.34
915.4	433923.00	434012.66	434102.31	434191.94	434281.59	434371.25	434460.91	434550.56	434640.19	434729.84
915.5	434819.50	434909.16	434998.81	435088.44	435178.09	435267.75	435357.41	435447.06	435536.69	435626.34
915.6	435716.00	435805.66	435895.31	435984.94	436074.59	436164.25	436253.91	436343.56	436433.19	436522.84
915.7	436612.50	436702.16	436791.81	436881.44	436971.09	437060.75	437150.41	437240.06	437329.69	437419.34
915.8	437509.00	437598.66	437688.31	437777.94	437867.59	437957.25	438046.91	438136.56	438226.19	438315.84
915.9	438405.50	438495.16	438584.81	438674.44	438764.09	438853.75	438943.41	439033.06	439122.69	439212.34
916.0	439302.00	439392.94	439483.88	439574.81	439665.75	439756.69	439847.62	439938.59	440029.53	440120.47
916.1	440211.41	440302.34	440393.28	440484.22	440575.16	440666.09	440757.03	440847.97	440938.91	441029.88
916.2	441120.81	441211.75	441302.69	441393.62	441484.56	441575.50	441666.44	441757.38	441848.31	441939.25
916.3	442030.19	442121.12	442212.09	442303.03	442393.97	442484.91	442575.84	442666.78	442757.72	442848.66
916.4	442939.59	443030.53	443121.47	443212.41	443303.38	443394.31	443485.25	443576.19	443667.12	443758.06
916.5	443849.00	443939.94	444030.88	444121.81	444212.75	444303.69	444394.62	444485.59	444576.53	444667.47
916.6	444758.41	444849.34	444940.28	445031.22	445122.16	445213.09	445304.03	445394.97	445485.91	445576.88
916.7	445667.81	445758.75	445849.69	445940.62	446031.56	446122.50	446213.44	446304.38	446395.31	446486.25
916.8	446577.19	446668.12	446759.09	446850.03	446940.97	447031.91	447122.84	447213.78	447304.72	447395.66
916.9	447486.59	447577.53	447668.47	447759.41	447850.38	447941.31	448032.25	448123.19	448214.12	448305.06
917.0	448396.00	448488.22	448580.41	448672.62	448764.84	448857.06	448949.25	449041.47	449133.69	449225.88
917.1	449318.09	449410.31	449502.53	449594.72	449686.94	449779.16	449871.38	449963.56	450055.78	450148.00
917.2	450240.19	450332.41	450424.62	450516.84	450609.03	450701.25	450793.47	450885.66	450977.88	451070.09
917.3	451162.31	451254.50	451346.72	451438.94	451531.12	451623.34	451715.56	451807.78	451899.97	451992.19
917.4	452084.41	452176.62	452268.81	452361.03	452453.25	452545.44	452637.66	452729.88	452822.09	452914.28
917.5	453006.50	453098.72	453190.91	453283.12	453375.34	453467.56	453559.75	453651.97	453744.19	453836.38
917.6	453928.59	454020.81	454113.03	454205.22	454297.44	454389.66	454481.88	454574.06	454666.28	454758.50
917.7	454850.69	454942.91	455035.12	455127.34	455219.53	455311.75	455403.97	455496.16	455588.38	455680.59
917.8	455772.81	455865.00	455957.22	456049.44	456141.62	456233.84	456326.06	456418.28	456510.47	456602.69
917.9	456694.91	456787.12	456879.31	456971.53	457063.75	457155.94	457248.16	457340.38	457432.59	457524.78
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
918.0	457617.00	457710.41	457803.81	457897.22	457990.62	458084.06	458177.47	458270.88	458364.28	458457.69
918.1	458551.09	458644.50	458737.91	458831.34	458924.75	459018.16	459111.56	459204.97	459298.38	459391.78
918.2	459485.19	459578.62	459672.03	459765.44	459858.84	459952.25	460045.66	460139.06	460232.47	460325.88
918.3	460419.31	460512.72	460606.12	460699.53	460792.94	460886.34	460979.75	461073.16	461166.59	461260.00
918.4	461353.41	461446.81	461540.22	461633.62	461727.03	461820.44	461913.88	462007.28	462100.69	462194.09
918.5	462287.50	462380.91	462474.31	462567.72	462661.12	462754.56	462847.97	462941.38	463034.78	463128.19
918.6	463221.59	463315.00	463408.41	463501.84	463595.25	463688.66	463782.06	463875.47	463968.88	464062.28
918.7	464155.69	464249.12	464342.53	464435.94	464529.34	464622.75	464716.16	464809.56	464902.97	464996.38
918.8	465089.81	465183.22	465276.62	465370.03	465463.44	465556.84	465650.25	465743.66	465837.09	465930.50
918.9	466023.91	466117.31	466210.72	466304.12	466397.53	466490.94	466584.38	466677.78	466771.19	466864.59
919.0	466958.00	467052.50	467147.03	467241.53	467336.03	467430.56	467525.06	467619.56	467714.09	467808.59
919.1	467903.09	467997.62	468092.12	468186.62	468281.12	468375.66	468470.16	468564.66	468659.19	468753.69
919.2	468848.19	468942.72	469037.22	469131.72	469226.25	469320.75	469415.25	469509.78	469604.28	469698.78
919.3	469793.31	469887.81	469982.31	470076.84	470171.34	470265.84	470360.38	470454.88	470549.38	470643.88
919.4	470738.41	470832.91	470927.41	471021.94	471116.44	471210.94	471305.47	471399.97	471494.47	471589.00
919.5	471683.50	471778.00	471872.53	471967.03	472061.53	472156.06	472250.56	472345.06	472439.59	472534.09
919.6	472628.59	472723.12	472817.62	472912.12	473006.62	473101.16	473195.66	473290.16	473384.69	473479.19
919.7	473573.69	473668.22	473762.72	473857.22	473951.75	474046.25	474140.75	474235.28	474329.78	474424.28
919.8	474518.81	474613.31	474707.81	474802.34	474896.84	474991.34	475085.88	475180.38	475274.88	475369.38
919.9	475463.91	475558.41	475652.91	475747.44	475841.94	475936.44	476030.97	476125.47	476219.97	476314.50
920.0	476409.00	476504.72	476600.47	476696.19	476791.91	476887.66	476983.38	477079.12	477174.84	477270.56
920.1	477366.31	477462.03	477557.75	477653.50	477749.22	477844.94	477940.69	478036.41	478132.12	478227.88
920.2	478323.59	478419.34	478515.06	478610.78	478706.53	478802.25	478897.97	478993.72	479089.44	479185.16
920.3	479280.91	479376.62	479472.38	479568.09	479663.81	479759.56	479855.28	479951.00	480046.75	480142.47
920.4	480238.19	480333.94	480429.66	480525.38	480621.12	480716.84	480812.59	480908.31	481004.03	481099.78
920.5	481195.50	481291.22	481386.97	481482.69	481578.41	481674.16	481769.88	481865.62	481961.34	482057.06
920.6	482152.81	482248.53	482344.25	482440.00	482535.72	482631.44	482727.19	482822.91	482918.62	483014.38
920.7	483110.09	483205.84	483301.56	483397.28	483493.03	483588.75	483684.47	483780.22	483875.94	483971.66
920.8	484067.41	484163.12	484258.88	484354.59	484450.31	484546.06	484641.78	484737.50	484833.25	484928.97
920.9	485024.69	485120.44	485216.16	485311.88	485407.62	485503.34	485599.09	485694.81	485790.53	485886.28
921.0	485982.00	486079.09	486176.19	486273.31	486370.41	486467.50	486564.59	486661.69	486758.81	486855.91
921.1	486953.00	487050.09	487147.19	487244.31	487341.41	487438.50	487535.59	487632.69	487729.81	487826.91
921.2	487924.00	488021.09	488118.19	488215.31	488312.41	488409.50	488506.59	488603.69	488700.81	488797.91
921.3	488895.00	488992.09	489089.19	489186.31	489283.41	489380.50	489477.59	489574.69	489671.81	489768.91
921.4	489866.00	489963.09	490060.19	490157.31	490254.41	490351.50	490448.59	490545.69	490642.81	490739.91
921.5	490837.00	490934.09	491031.19	491128.31	491225.41	491322.50	491419.59	491516.69	491613.81	491710.91
921.6	491808.00	491905.09	492002.19	492099.31	492196.41	492293.50	492390.59	492487.69	492584.81	492681.91
921.7	492779.00	492876.09	492973.19	493070.31	493167.41	493264.50	493361.59	493458.69	493555.81	493652.91
921.8	493750.00	493847.09	493944.19	494041.31	494138.41	494235.50	494332.59	494429.69	494526.81	494623.91
921.9	494721.00	494818.09	494915.19	495012.31	495109.41	495206.50	495303.59	495400.69	495497.81	495594.91
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
922.0	495692.00	495790.38	495888.78	495987.16	496085.56	496183.94	496282.34	496380.72	496479.12	496577.50
922.1	496675.91	496774.28	496872.69	496971.06	497069.47	497167.84	497266.25	497364.62	497463.03	497561.41
922.2	497659.81	497758.19	497856.59	497954.97	498053.38	498151.75	498250.12	498348.53	498446.91	498545.31
922.3	498643.69	498742.09	498840.47	498938.88	499037.25	499135.66	499234.03	499332.44	499430.81	499529.22
922.4	499627.59	499726.00	499824.38	499922.78	500021.16	500119.56	500217.94	500316.34	500414.72	500513.12
922.5	500611.50	500709.88	500808.28	500906.66	501005.06	501103.44	501201.84	501300.22	501398.62	501497.00
922.6	501595.41	501693.78	501792.19	501890.56	501988.97	502087.34	502185.75	502284.12	502382.53	502480.91
922.7	502579.31	502677.69	502776.09	502874.47	502972.88	503071.25	503169.62	503268.03	503366.41	503464.81
922.8	503563.19	503661.59	503759.97	503858.38	503956.75	504055.16	504153.53	504251.94	504350.31	504448.72
922.9	504547.09	504645.50	504743.88	504842.28	504940.66	505039.06	505137.44	505235.84	505334.22	505432.62
923.0	505531.00	505630.75	505730.47	505830.22	505929.97	506029.69	506129.44	506229.19	506328.91	506428.66
923.1	506528.41	506628.12	506727.88	506827.62	506927.38	507027.09	507126.84	507226.59	507326.31	507426.06
923.2	507525.81	507625.53	507725.28	507825.03	507924.75	508024.50	508124.25	508223.97	508323.72	508423.47
923.3	508523.19	508622.94	508722.69	508822.41	508922.16	509021.91	509121.62	509221.38	509321.12	509420.88
923.4	509520.59	509620.34	509720.09	509819.81	509919.56	510019.31	510119.03	510218.78	510318.53	510418.25
923.5	510518.00	510617.75	510717.47	510817.22	510916.97	511016.69	511116.44	511216.19	511315.91	511415.66
923.6	511515.41	511615.12	511714.88	511814.62	511914.38	512014.09	512113.84	512213.59	512313.31	512413.06
923.7	512512.81	512612.53	512712.28	512812.03	512911.75	513011.50	513111.25	513210.97	513310.72	513410.47
923.8	513510.19	513609.94	513709.69	513809.41	513909.16	514008.91	514108.62	514208.38	514308.12	514407.88
923.9	514507.59	514607.34	514707.09	514806.81	514906.56	515006.31	515106.03	515205.78	515305.53	515405.25
924.0	515505.00	515606.28	515707.56	515808.84	515910.12	516011.41	516112.69	516213.97	516315.25	516416.53
924.1	516517.81	516619.09	516720.38	516821.62	516922.91	517024.19	517125.47	517226.75	517328.03	517429.31
924.2	517530.59	517631.88	517733.16	517834.44	517935.72	518037.00	518138.28	518239.56	518340.84	518442.12
924.3	518543.41	518644.69	518745.97	518847.25	518948.53	519049.81	519151.09	519252.38	519353.62	519454.91
924.4	519556.19	519657.47	519758.75	519860.03	519961.31	520062.59	520163.88	520265.16	520366.44	520467.72
924.5	520569.00	520670.28	520771.56	520872.84	520974.12	521075.41	521176.69	521277.97	521379.25	521480.53
924.6	521581.81	521683.09	521784.38	521885.62	521986.91	522088.19	522189.47	522290.75	522392.03	522493.31
924.7	522594.59	522695.88	522797.16	522898.44	522999.72	523101.00	523202.28	523303.56	523404.84	523506.12
924.8	523607.41	523708.69	523809.97	523911.25	524012.53	524113.81	524215.09	524316.38	524417.62	524518.94
924.9	524620.19	524721.50	524822.75	524924.06	525025.31	525126.62	525227.88	525329.19	525430.44	525531.75
925.0	525633.00	525735.81	525838.62	525941.44	526044.25	526147.12	526249.94	526352.75	526455.56	526558.38
925.1	526661.19	526764.00	526866.81	526969.69	527072.50	527175.31	527278.12	527380.94	527483.75	527586.56
925.2	527689.38	527792.25	527895.06	527997.88	528100.69	528203.50	528306.31	528409.12	528511.94	528614.75
925.3	528717.62	528820.44	528923.25	529026.06	529128.88	529231.69	529334.50	529437.31	529540.19	529643.00
925.4	529745.81	529848.62	529951.44	530054.25	530157.06	530259.88	530362.75	530465.56	530568.38	530671.19
925.5	530774.00	530876.81	530979.62	531082.44	531185.25	531288.12	531390.94	531493.75	531596.56	531699.38
925.6	531802.19	531905.00	532007.81	532110.69	532213.50	532316.31	532419.12	532521.94	532624.75	532727.56
925.7	532830.38	532933.25	533036.06	533138.88	533241.69	533344.50	533447.31	533550.12	533652.94	533755.75
925.8	533858.62	533961.44	534064.25	534167.06	534269.88	534372.69	534475.50	534578.31	534681.19	534784.00
925.9	534886.81	534989.62	535092.44	535195.25	535298.06	535400.88	535503.75	535606.56	535709.38	535812.19
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
926.0	535915.00	536019.38	536123.75	536228.06	536332.44	536436.81	536541.19	536645.50	536749.88	536854.25
926.1	536958.62	537062.94	537167.31	537271.69	537376.06	537480.38	537584.75	537689.12	537793.50	537897.81
926.2	538002.19	538106.56	538210.94	538315.25	538419.62	538524.00	538628.38	538732.75	538837.06	538941.44
926.3	539045.81	539150.19	539254.50	539358.88	539463.25	539567.62	539671.94	539776.31	539880.69	539985.06
926.4	540089.38	540193.75	540298.12	540402.50	540506.81	540611.19	540715.56	540819.94	540924.25	541028.62
926.5	541133.00	541237.38	541341.75	541446.06	541550.44	541654.81	541759.19	541863.50	541967.88	542072.25
926.6	542176.62	542280.94	542385.31	542489.69	542594.06	542698.38	542802.75	542907.12	543011.50	543115.81
926.7	543220.19	543324.56	543428.94	543533.25	543637.62	543742.00	543846.38	543950.75	544055.06	544159.44
926.8	544263.81	544368.19	544472.50	544576.88	544681.25	544785.62	544889.94	544994.31	545098.69	545203.06
926.9	545307.38	545411.75	545516.12	545620.50	545724.81	545829.19	545933.56	546037.94	546142.25	546246.62
927.0	546351.00	546456.75	546562.44	546668.19	546773.94	546879.62	546985.38	547091.12	547196.81	547302.56
927.1	547408.31	547514.00	547619.75	547725.50	547831.25	547936.94	548042.69	548148.44	548254.12	548359.88
927.2	548465.62	548571.31	548677.06	548782.81	548888.50	548994.25	549100.00	549205.69	549311.44	549417.19
927.3	549522.88	549628.62	549734.38	549840.06	549945.81	550051.56	550157.25	550263.00	550368.75	550474.50
927.4	550580.19	550685.94	550791.69	550897.38	551003.12	551108.88	551214.56	551320.31	551426.06	551531.75
927.5	551637.50	551743.25	551848.94	551954.69	552060.44	552166.12	552271.88	552377.62	552483.31	552589.06
927.6	552694.81	552800.50	552906.25	553012.00	553117.75	553223.44	553329.19	553434.94	553540.62	553646.38
927.7	553752.12	553857.81	553963.56	554069.31	554175.00	554280.75	554386.50	554492.19	554597.94	554703.69
927.8	554809.38	554915.12	555020.88	555126.56	555232.31	555338.06	555443.75	555549.50	555655.25	555761.00
927.9	555866.69	555972.44	556078.19	556183.88	556289.62	556395.38	556501.06	556606.81	556712.56	556818.25
928.0	556924.00	557031.12	557138.25	557245.38	557352.50	557459.62	557566.75	557673.81	557780.94	557888.06
928.1	557995.19	558102.31	558209.44	558316.56	558423.69	558530.81	558637.94	558745.06	558852.19	558959.25
928.2	559066.38	559173.50	559280.62	559387.75	559494.88	559602.00	559709.12	559816.25	559923.38	560030.50
928.3	560137.62	560244.75	560351.81	560458.94	560566.06	560673.19	560780.31	560887.44	560994.56	561101.69
928.4	561208.81	561315.94	561423.06	561530.19	561637.25	561744.38	561851.50	561958.62	562065.75	562172.88
928.5	562280.00	562387.12	562494.25	562601.38	562708.50	562815.62	562922.75	563029.81	563136.94	563244.06
928.6	563351.19	563458.31	563565.44	563672.56	563779.69	563886.81	563993.94	564101.06	564208.19	564315.25
928.7	564422.38	564529.50	564636.62	564743.75	564850.88	564958.00	565065.12	565172.25	565279.38	565386.50
928.8	565493.62	565600.75	565707.81	565814.94	565922.06	566029.19	566136.31	566243.44	566350.56	566457.69
928.9	566564.81	566671.94	566779.06	566886.19	566993.25	567100.38	567207.50	567314.62	567421.75	567528.88
929.0	567636.00	567744.69	567853.31	567962.00	568070.69	568179.38	568288.00	568396.69	568505.38	568614.00
929.1	568722.69	568831.38	568940.06	569048.69	569157.38	569266.06	569374.75	569483.38	569592.06	569700.75
929.2	569809.38	569918.06	570026.75	570135.44	570244.06	570352.75	570461.44	570570.06	570678.75	570787.44
929.3	570896.12	571004.75	571113.44	571222.12	571330.75	571439.44	571548.12	571656.81	571765.44	571874.12
929.4	571982.81	572091.50	572200.12	572308.81	572417.50	572526.12	572634.81	572743.50	572852.19	572960.81
929.5	573069.50	573178.19	573286.81	573395.50	573504.19	573612.88	573721.50	573830.19	573938.88	574047.50
929.6	574156.19	574264.88	574373.56	574482.19	574590.88	574699.56	574808.25	574916.88	575025.56	575134.25
929.7	575242.88	575351.56	575460.25	575568.94	575677.56	575786.25	575894.94	576003.56	576112.25	576220.94
929.8	576329.62	576438.25	576546.94	576655.62	576764.25	576872.94	576981.62	577090.31	577198.94	577307.62
929.9	577416.31	577525.00	577633.62	577742.31	577851.00	577959.62	578068.31	578177.00	578285.69	578394.31
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
930.0	578503.00	578613.25	578723.44	578833.69	578943.94	579054.12	579164.38	579274.62	579384.81	579495.06
930.1	579605.31	579715.50	579825.75	579936.00	580046.25	580156.44	580266.69	580376.94	580487.12	580597.38
930.2	580707.62	580817.81	580928.06	581038.31	581148.50	581258.75	581369.00	581479.19	581589.44	581699.69
930.3	581809.88	581920.12	582030.38	582140.56	582250.81	582361.06	582471.25	582581.50	582691.75	582802.00
930.4	582912.19	583022.44	583132.69	583242.88	583353.12	583463.38	583573.56	583683.81	583794.06	583904.25
930.5	584014.50	584124.75	584234.94	584345.19	584455.44	584565.62	584675.88	584786.12	584896.31	585006.56
930.6	585116.81	585227.00	585337.25	585447.50	585557.75	585667.94	585778.19	585888.44	585998.62	586108.88
930.7	586219.12	586329.31	586439.56	586549.81	586660.00	586770.25	586880.50	586990.69	587100.94	587211.19
930.8	587321.38	587431.62	587541.88	587652.06	587762.31	587872.56	587982.75	588093.00	588203.25	588313.50
930.9	588423.69	588533.94	588644.19	588754.38	588864.62	588974.88	589085.06	589195.31	589305.56	589415.75
931.0	589526.00	589637.69	589749.38	589861.06	589972.75	590084.44	590196.12	590307.81	590419.50	590531.19
931.1	590642.88	590754.56	590866.25	590978.00	591089.69	591201.38	591313.06	591424.75	591536.44	591648.12
931.2	591759.81	591871.50	591983.19	592094.88	592206.56	592318.25	592429.94	592541.62	592653.31	592765.00
931.3	592876.69	592988.38	593100.06	593211.75	593323.44	593435.12	593546.81	593658.50	593770.25	593881.94
931.4	593993.62	594105.31	594217.00	594328.69	594440.38	594552.06	594663.75	594775.44	594887.12	594998.81
931.5	595110.50	595222.19	595333.88	595445.56	595557.25	595668.94	595780.62	595892.31	596004.00	596115.69
931.6	596227.38	596339.06	596450.75	596562.50	596674.19	596785.88	596897.56	597009.25	597120.94	597232.62
931.7	597344.31	597456.00	597567.69	597679.38	597791.06	597902.75	598014.44	598126.12	598237.81	598349.50
931.8	598461.19	598572.88	598684.56	598796.25	598907.94	599019.62	599131.31	599243.00	599354.75	599466.44
931.9	599578.12	599689.81	599801.50	599913.19	600024.88	600136.56	600248.25	600359.94	600471.62	600583.31
932.0	600695.00	600808.25	600921.44	601034.69	601147.88	601261.12	601374.31	601487.56	601600.75	601714.00
932.1	601827.19	601940.44	602053.62	602166.88	602280.06	602393.31	602506.50	602619.75	602732.94	602846.19
932.2	602959.38	603072.62	603185.81	603299.06	603412.25	603525.50	603638.75	603751.94	603865.19	603978.38
932.3	604091.62	604204.81	604318.06	604431.25	604544.50	604657.69	604770.94	604884.12	604997.38	605110.56
932.4	605223.81	605337.00	605450.25	605563.44	605676.69	605789.88	605903.12	606016.31	606129.56	606242.75
932.5	606356.00	606469.25	606582.44	606695.69	606808.88	606922.12	607035.31	607148.56	607261.75	607375.00
932.6	607488.19	607601.44	607714.62	607827.88	607941.06	608054.31	608167.50	608280.75	608393.94	608507.19
932.7	608620.38	608733.62	608846.81	608960.06	609073.25	609186.50	609299.75	609412.94	609526.19	609639.38
932.8	609752.62	609865.81	609979.06	610092.25	610205.50	610318.69	610431.94	610545.12	610658.38	610771.56
932.9	610884.81	610998.00	611111.25	611224.44	611337.69	611450.88	611564.12	611677.31	611790.56	611903.75
933.0	612017.00	612131.81	612246.69	612361.50	612476.38	612591.19	612706.06	612820.88	612935.75	613050.56
933.1	613165.38	613280.25	613395.06	613509.94	613624.75	613739.62	613854.44	613969.25	614084.12	614198.94
933.2	614313.81	614428.62	614543.50	614658.31	614773.19	614888.00	615002.81	615117.69	615232.50	615347.38
933.3	615462.19	615577.06	615691.88	615806.75	615921.56	616036.38	616151.25	616266.06	616380.94	616495.75
933.4	616610.62	616725.44	616840.25	616955.12	617069.94	617184.81	617299.62	617414.50	617529.31	617644.19
933.5	617759.00	617873.81	617988.69	618103.50	618218.38	618333.19	618448.06	618562.88	618677.75	618792.56
933.6	618907.38	619022.25	619137.06	619251.94	619366.75	619481.62	619596.44	619711.25	619826.12	619940.94
933.7	620055.81	620170.62	620285.50	620400.31	620515.19	620630.00	620744.81	620859.69	620974.50	621089.38
933.8	621204.19	621319.06	621433.88	621548.75	621663.56	621778.38	621893.25	622008.06	622122.94	622237.75
933.9	622352.62	622467.44	622582.25	622697.12	622811.94	622926.81	623041.62	623156.50	623271.31	623386.19
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
934.0	623501.00	623617.31	623733.69	623850.00	623966.38	624082.69	624199.06	624315.38	624431.75	624548.06
934.1	624664.38	624780.75	624897.06	625013.44	625129.75	625246.12	625362.44	625478.75	625595.12	625711.44
934.2	625827.81	625944.12	626060.50	626176.81	626293.19	626409.50	626525.81	626642.19	626758.50	626874.88
934.3	626991.19	627107.56	627223.88	627340.25	627456.56	627572.88	627689.25	627805.56	627921.94	628038.25
934.4	628154.62	628270.94	628387.25	628503.62	628619.94	628736.31	628852.62	628969.00	629085.31	629201.69
934.5	629318.00	629434.31	629550.69	629667.00	629783.38	629899.69	630016.06	630132.38	630248.75	630365.06
934.6	630481.38	630597.75	630714.06	630830.44	630946.75	631063.12	631179.44	631295.75	631412.12	631528.44
934.7	631644.81	631761.12	631877.50	631993.81	632110.19	632226.50	632342.81	632459.19	632575.50	632691.88
934.8	632808.19	632924.56	633040.88	633157.25	633273.56	633389.88	633506.25	633622.56	633738.94	633855.25
934.9	633971.62	634087.94	634204.25	634320.62	634436.94	634553.31	634669.62	634786.00	634902.31	635018.69
935.0	635135.00	635252.81	635370.62	635488.44	635606.25	635724.12	635841.94	635959.75	636077.56	636195.38
935.1	636313.19	636431.00	636548.81	636666.69	636784.50	636902.31	637020.12	637137.94	637255.75	637373.56
935.2	637491.38	637609.25	637727.06	637844.88	637962.69	638080.50	638198.31	638316.12	638433.94	638551.75
935.3	638669.62	638787.44	638905.25	639023.06	639140.88	639258.69	639376.50	639494.31	639612.19	639730.00
935.4	639847.81	639965.62	640083.44	640201.25	640319.06	640436.88	640554.75	640672.56	640790.38	640908.19
935.5	641026.00	641143.81	641261.62	641379.44	641497.25	641615.12	641732.94	641850.75	641968.56	642086.38
935.6	642204.19	642322.00	642439.81	642557.69	642675.50	642793.31	642911.12	643028.94	643146.75	643264.56
935.7	643382.38	643500.25	643618.06	643735.88	643853.69	643971.50	644089.31	644207.12	644324.94	644442.75
935.8	644560.62	644678.44	644796.25	644914.06	645031.88	645149.69	645267.50	645385.31	645503.19	645621.00
935.9	645738.81	645856.62	645974.44	646092.25	646210.06	646327.88	646445.75	646563.56	646681.38	646799.19
936.0	646917.00	647036.38	647155.69	647275.06	647394.38	647513.75	647633.12	647752.44	647871.81	647991.12
936.1	648110.50	648229.88	648349.19	648468.56	648587.88	648707.25	648826.62	648945.94	649065.31	649184.62
936.2	649304.00	649423.38	649542.69	649662.06	649781.38	649900.75	650020.12	650139.44	650258.81	650378.12
936.3	650497.50	650616.88	650736.19	650855.56	650974.88	651094.25	651213.62	651332.94	651452.31	651571.62
936.4	651691.00	651810.38	651929.69	652049.06	652168.38	652287.75	652407.12	652526.44	652645.81	652765.12
936.5	652884.50	653003.88	653123.19	653242.56	653361.88	653481.25	653600.62	653719.94	653839.31	653958.62
936.6	654078.00	654197.38	654316.69	654436.06	654555.38	654674.75	654794.12	654913.44	655032.81	655152.12
936.7	655271.50	655390.88	655510.19	655629.56	655748.88	655868.25	655987.62	656106.94	656226.31	656345.62
936.8	656465.00	656584.38	656703.69	656823.06	656942.38	657061.75	657181.12	657300.44	657419.81	657539.12
936.9	657658.50	657777.88	657897.19	658016.56	658135.88	658255.25	658374.62	658493.94	658613.31	658732.62
937.0	658852.00	658972.88	659093.75	659214.62	659335.50	659456.38	659577.25	659698.06	659818.94	659939.81
937.1	660060.69	660181.56	660302.44	660423.31	660544.19	660665.06	660785.94	660906.81	661027.69	661148.50
937.2	661269.38	661390.25	661511.12	661632.00	661752.88	661873.75	661994.62	662115.50	662236.38	662357.25
937.3	662478.12	662599.00	662719.81	662840.69	662961.56	663082.44	663203.31	663324.19	663445.06	663565.94
937.4	663686.81	663807.69	663928.56	664049.44	664170.25	664291.12	664412.00	664532.88	664653.75	664774.62
937.5	664895.50	665016.38	665137.25	665258.12	665379.00	665499.88	665620.75	665741.56	665862.44	665983.31
937.6	666104.19	666225.06	666345.94	666466.81	666587.69	666708.56	666829.44	666950.31	667071.19	667192.00
937.7	667312.88	667433.75	667554.62	667675.50	667796.38	667917.25	668038.12	668159.00	668279.88	668400.75
937.8	668521.62	668642.50	668763.31	668884.19	669005.06	669125.94	669246.81	669367.69	669488.56	669609.44
937.9	669730.31	669851.19	669972.06	670092.94	670213.75	670334.62	670455.50	670576.38	670697.25	670818.12
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
938.0	670939.00	671061.25	671183.50	671305.75	671428.06	671550.31	671672.56	671794.81	671917.06	672039.31
938.1	672161.62	672283.88	672406.12	672528.38	672650.62	672772.88	672895.19	673017.44	673139.69	673261.94
938.2	673384.19	673506.44	673628.75	673751.00	673873.25	673995.50	674117.75	674240.00	674362.25	674484.56
938.3	674606.81	674729.06	674851.31	674973.56	675095.81	675218.12	675340.38	675462.62	675584.88	675707.12
938.4	675829.38	675951.69	676073.94	676196.19	676318.44	676440.69	676562.94	676685.25	676807.50	676929.75
938.5	677052.00	677174.25	677296.50	677418.75	677541.06	677663.31	677785.56	677907.81	678030.06	678152.31
938.6	678274.62	678396.88	678519.12	678641.38	678763.62	678885.88	679008.19	679130.44	679252.69	679374.94
938.7	679497.19	679619.44	679741.75	679864.00	679986.25	680108.50	680230.75	680353.00	680475.25	680597.56
938.8	680719.81	680842.06	680964.31	681086.56	681208.81	681331.12	681453.38	681575.62	681697.88	681820.12
938.9	681942.38	682064.69	682186.94	682309.19	682431.44	682553.69	682675.94	682798.25	682920.50	683042.75
939.0	683165.00	683288.75	683412.50	683536.25	683659.94	683783.69	683907.44	684031.19	684154.94	684278.69
939.1	684402.38	684526.12	684649.88	684773.62	684897.38	685021.12	685144.81	685268.56	685392.31	685516.06
939.2	685639.81	685763.56	685887.25	686011.00	686134.75	686258.50	686382.25	686506.00	686629.75	686753.44
939.3	686877.19	687000.94	687124.69	687248.44	687372.19	687495.88	687619.62	687743.38	687867.12	687990.88
939.4	688114.62	688238.31	688362.06	688485.81	688609.56	688733.31	688857.06	688980.75	689104.50	689228.25
939.5	689352.00	689475.75	689599.50	689723.25	689846.94	689970.69	690094.44	690218.19	690341.94	690465.69
939.6	690589.38	690713.12	690836.88	690960.62	691084.38	691208.12	691331.81	691455.56	691579.31	691703.06
939.7	691826.81	691950.56	692074.25	692198.00	692321.75	692445.50	692569.25	692693.00	692816.75	692940.44
939.8	693064.19	693187.94	693311.69	693435.44	693559.19	693682.88	693806.62	693930.38	694054.12	694177.88
939.9	694301.62	694425.31	694549.06	694672.81	694796.56	694920.31	695044.06	695167.75	695291.50	695415.25
940.0	695539.00	695664.19	695789.38	695914.56	696039.75	696164.94	696290.12	696415.31	696540.50	696665.69
940.1	696790.88	696916.06	697041.25	697166.50	697291.69	697416.88	697542.06	697667.25	697792.44	697917.62
940.2	698042.81	698168.00	698293.19	698418.38	698543.56	698668.75	698793.94	698919.12	699044.31	699169.50
940.3	699294.69	699419.88	699545.06	699670.25	699795.44	699920.62	700045.81	700171.00	700296.25	700421.44
940.4	700546.62	700671.81	700797.00	700922.19	701047.38	701172.56	701297.75	701422.94	701548.12	701673.31
940.5	701798.50	701923.69	702048.88	702174.06	702299.25	702424.44	702549.62	702674.81	702800.00	702925.19
940.6	703050.38	703175.56	703300.75	703426.00	703551.19	703676.38	703801.56	703926.75	704051.94	704177.12
940.7	704302.31	704427.50	704552.69	704677.88	704803.06	704928.25	705053.44	705178.62	705303.81	705429.00
940.8	705554.19	705679.38	705804.56	705929.75	706054.94	706180.12	706305.31	706430.50	706555.75	706680.94
940.9	706806.12	706931.31	707056.50	707181.69	707306.88	707432.06	707557.25	707682.44	707807.62	707932.81
941.0	708058.00	708184.56	708311.19	708437.75	708564.31	708690.88	708817.50	708944.06	709070.62	709197.25
941.1	709323.81	709450.38	709576.94	709703.56	709830.12	709956.69	710083.25	710209.88	710336.44	710463.00
941.2	710589.62	710716.19	710842.75	710969.31	711095.94	711222.50	711349.06	711475.69	711602.25	711728.81
941.3	711855.38	711982.00	712108.56	712235.12	712361.75	712488.31	712614.88	712741.44	712868.06	712994.62
941.4	713121.19	713247.75	713374.38	713500.94	713627.50	713754.12	713880.69	714007.25	714133.81	714260.44
941.5	714387.00	714513.56	714640.19	714766.75	714893.31	715019.88	715146.50	715273.06	715399.62	715526.25
941.6	715652.81	715779.38	715905.94	716032.56	716159.12	716285.69	716412.25	716538.88	716665.44	716792.00
941.7	716918.62	717045.19	717171.75	717298.31	717424.94	717551.50	717678.06	717804.69	717931.25	718057.81
941.8	718184.38	718311.00	718437.56	718564.12	718690.75	718817.31	718943.88	719070.44	719197.06	719323.62
941.9	719450.19	719576.75	719703.38	719829.94	719956.50	720083.12	720209.69	720336.25	720462.81	720589.44
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
942.0	720716.00	720844.00	720972.00	721100.00	721228.06	721356.06	721484.06	721612.06	721740.06	721868.06
942.1	721996.12	722124.12	722252.12	722380.12	722508.12	722636.12	722764.19	722892.19	723020.19	723148.19
942.2	723276.19	723404.19	723532.25	723660.25	723788.25	723916.25	724044.25	724172.25	724300.25	724428.31
942.3	724556.31	724684.31	724812.31	724940.31	725068.31	725196.38	725324.38	725452.38	725580.38	725708.38
942.4	725836.38	725964.44	726092.44	726220.44	726348.44	726476.44	726604.44	726732.50	726860.50	726988.50
942.5	727116.50	727244.50	727372.50	727500.50	727628.56	727756.56	727884.56	728012.56	728140.56	728268.56
942.6	728396.62	728524.62	728652.62	728780.62	728908.62	729036.62	729164.69	729292.69	729420.69	729548.69
942.7	729676.69	729804.69	729932.75	730060.75	730188.75	730316.75	730444.75	730572.75	730700.75	730828.81
942.8	730956.81	731084.81	731212.81	731340.81	731468.81	731596.88	731724.88	731852.88	731980.88	732108.88
942.9	732236.88	732364.94	732492.94	732620.94	732748.94	732876.94	733004.94	733133.00	733261.00	733389.00
943.0	733517.00	733646.44	733775.81	733905.25	734034.69	734164.12	734293.50	734422.94	734552.38	734681.75
943.1	734811.19	734940.62	735070.06	735199.44	735328.88	735458.31	735587.75	735717.12	735846.56	735976.00
943.2	736105.38	736234.81	736364.25	736493.69	736623.06	736752.50	736881.94	737011.31	737140.75	737270.19
943.3	737399.62	737529.00	737658.44	737787.88	737917.25	738046.69	738176.12	738305.56	738434.94	738564.38
943.4	738693.81	738823.25	738952.62	739082.06	739211.50	739340.88	739470.31	739599.75	739729.19	739858.56
943.5	739988.00	740117.44	740246.81	740376.25	740505.69	740635.12	740764.50	740893.94	741023.38	741152.75
943.6	741282.19	741411.62	741541.06	741670.44	741799.88	741929.31	742058.75	742188.12	742317.56	742447.00
943.7	742576.38	742705.81	742835.25	742964.69	743094.06	743223.50	743352.94	743482.31	743611.75	743741.19
943.8	743870.62	744000.00	744129.44	744258.88	744388.25	744517.69	744647.12	744776.56	744905.94	745035.38
943.9	745164.81	745294.25	745423.62	745553.06	745682.50	745811.88	745941.31	746070.75	746200.19	746329.56
944.0	746459.00	746590.00	746721.00	746852.00	746983.00	747114.00	747245.00	747376.00	747507.00	747638.00
944.1	747769.00	747900.00	748031.00	748162.00	748293.00	748424.00	748555.00	748686.00	748817.00	748948.00
944.2	749079.00	749210.00	749341.00	749472.00	749603.00	749734.00	749865.00	749996.00	750127.00	750258.00
944.3	750389.00	750520.00	750651.00	750782.00	750913.00	751044.00	751175.00	751306.00	751437.00	751568.00
944.4	751699.00	751830.00	751961.00	752092.00	752223.00	752354.00	752485.00	752616.00	752747.00	752878.00
944.5	753009.00	753140.00	753271.00	753402.00	753533.00	753664.00	753795.00	753926.00	754057.00	754188.00
944.6	754319.00	754450.00	754581.00	754712.00	754843.00	754974.00	755105.00	755236.00	755367.00	755498.00
944.7	755629.00	755760.00	755891.00	756022.00	756153.00	756284.00	756415.00	756546.00	756677.00	756808.00
944.8	756939.00	757070.00	757201.00	757332.00	757463.00	757594.00	757725.00	757856.00	757987.00	758118.00
944.9	758249.00	758380.00	758511.00	758642.00	758773.00	758904.00	759035.00	759166.00	759297.00	759428.00
945.0	759559.00	759691.50	759824.00	759956.50	760089.00	760221.50	760354.00	760486.50	760619.00	760751.50
945.1	760884.00	761016.50	761149.00	761281.50	761414.00	761546.50	761679.00	761811.50	761944.00	762076.50
945.2	762209.00	762341.50	762474.00	762606.50	762739.00	762871.50	763004.00	763136.50	763269.00	763401.50
945.3	763534.00	763666.50	763799.00	763931.50	764064.00	764196.50	764329.00	764461.50	764594.00	764726.50
945.4	764859.00	764991.50	765124.00	765256.50	765389.00	765521.50	765654.00	765786.50	765919.00	766051.50
945.5	766184.00	766316.50	766449.00	766581.50	766714.00	766846.50	766979.00	767111.50	767244.00	767376.50
945.6	767509.00	767641.50	767774.00	767906.50	768039.00	768171.50	768304.00	768436.50	768569.00	768701.50
945.7	768834.00	768966.50	769099.00	769231.50	769364.00	769496.50	769629.00	769761.50	769894.00	770026.50
945.8	770159.00	770291.50	770424.00	770556.50	770689.00	770821.50	770954.00	771086.50	771219.00	771351.50
945.9	771484.00	771616.50	771749.00	771881.50	772014.00	772146.50	772279.00	772411.50	772544.00	772676.50
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
946.0	772809.00	772942.88	773076.81	773210.69	773344.62	773478.50	773612.38	773746.31	773880.19	774014.12
946.1	774148.00	774281.88	774415.81	774549.69	774683.62	774817.50	774951.38	775085.31	775219.19	775353.12
946.2	775487.00	775620.88	775754.81	775888.69	776022.62	776156.50	776290.38	776424.31	776558.19	776692.12
946.3	776826.00	776959.88	777093.81	777227.69	777361.62	777495.50	777629.38	777763.31	777897.19	778031.12
946.4	778165.00	778298.88	778432.81	778566.69	778700.62	778834.50	778968.38	779102.31	779236.19	779370.12
946.5	779504.00	779637.88	779771.81	779905.69	780039.62	780173.50	780307.38	780441.31	780575.19	780709.12
946.6	780843.00	780976.88	781110.81	781244.69	781378.62	781512.50	781646.38	781780.31	781914.19	782048.12
946.7	782182.00	782315.88	782449.81	782583.69	782717.62	782851.50	782985.38	783119.31	783253.19	783387.12
946.8	783521.00	783654.88	783788.81	783922.69	784056.62	784190.50	784324.38	784458.31	784592.19	784726.12
946.9	784860.00	784993.88	785127.81	785261.69	785395.62	785529.50	785663.38	785797.31	785931.19	786065.12
947.0	786199.00	786334.38	786469.69	786605.06	786740.38	786875.75	787011.12	787146.44	787281.81	787417.12
947.1	787552.50	787687.88	787823.19	787958.56	788093.88	788229.25	788364.62	788499.94	788635.31	788770.62
947.2	788906.00	789041.38	789176.69	789312.06	789447.38	789582.75	789718.12	789853.44	789988.81	790124.12
947.3	790259.50	790394.88	790530.19	790665.56	790800.88	790936.25	791071.62	791206.94	791342.31	791477.62
947.4	791613.00	791748.38	791883.69	792019.06	792154.38	792289.75	792425.12	792560.44	792695.81	792831.12
947.5	792966.50	793101.88	793237.19	793372.56	793507.88	793643.25	793778.62	793913.94	794049.31	794184.62
947.6	794320.00	794455.38	794590.69	794726.06	794861.38	794996.75	795132.12	795267.44	795402.81	795538.12
947.7	795673.50	795808.88	795944.19	796079.56	796214.88	796350.25	796485.62	796620.94	796756.31	796891.62
947.8	797027.00	797162.38	797297.69	797433.06	797568.38	797703.75	797839.12	797974.44	798109.81	798245.12
947.9	798380.50	798515.88	798651.19	798786.56	798921.88	799057.25	799192.62	799327.94	799463.31	799598.62
948.0	799734.00	799870.62	800007.31	800143.94	800280.62	800417.25	800553.88	800690.56	800827.19	800963.88
948.1	801100.50	801237.12	801373.81	801510.44	801647.12	801783.75	801920.38	802057.06	802193.69	802330.38
948.2	802467.00	802603.62	802740.31	802876.94	803013.62	803150.25	803286.88	803423.56	803560.19	803696.88
948.3	803833.50	803970.12	804106.81	804243.44	804380.12	804516.75	804653.38	804790.06	804926.69	805063.38
948.4	805200.00	805336.62	805473.31	805609.94	805746.62	805883.25	806019.88	806156.56	806293.19	806429.88
948.5	806566.50	806703.12	806839.81	806976.44	807113.12	807249.75	807386.38	807523.06	807659.69	807796.38
948.6	807933.00	808069.62	808206.31	808342.94	808479.62	808616.25	808752.88	808889.56	809026.19	809162.88
948.7	809299.50	809436.12	809572.81	809709.44	809846.12	809982.75	810119.38	810256.06	810392.69	810529.38
948.8	810666.00	810802.62	810939.31	811075.94	811212.62	811349.25	811485.88	811622.56	811759.19	811895.88
948.9	812032.50	812169.12	812305.81	812442.44	812579.12	812715.75	812852.38	812989.06	813125.69	813262.38
949.0	813399.00	813537.12	813675.19	813813.31	813951.38	814089.50	814227.62	814365.69	814503.81	814641.88
949.1	814780.00	814918.12	815056.19	815194.31	815332.38	815470.50	815608.62	815746.69	815884.81	816022.88
949.2	816161.00	816299.12	816437.19	816575.31	816713.38	816851.50	816989.62	817127.69	817265.81	817403.88
949.3	817542.00	817680.12	817818.19	817956.31	818094.38	818232.50	818370.62	818508.69	818646.81	818784.88
949.4	818923.00	819061.12	819199.19	819337.31	819475.38	819613.50	819751.62	819889.69	820027.81	820165.88
949.5	820304.00	820442.12	820580.19	820718.31	820856.38	820994.50	821132.62	821270.69	821408.81	821546.88
949.6	821685.00	821823.12	821961.19	822099.31	822237.38	822375.50	822513.62	822651.69	822789.81	822927.88
949.7	823066.00	823204.12	823342.19	823480.31	823618.38	823756.50	823894.62	824032.69	824170.81	824308.88
949.8	824447.00	824585.12	824723.19	824861.31	824999.38	825137.50	825275.62	825413.69	825551.81	825689.88
949.9	825828.00	825966.12	826104.19	826242.31	826380.38	826518.50	826656.62	826794.69	826932.81	827070.88
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
950.0	827209.00	827347.12	827485.19	827623.31	827761.38	827899.50	828037.62	828175.69	828313.81	828451.88
950.1	828590.00	828728.12	828866.19	829004.31	829142.38	829280.50	829418.62	829556.69	829694.81	829832.88
950.2	829971.00	830109.12	830247.19	830385.31	830523.38	830661.50	830799.62	830937.69	831075.81	831213.88
950.3	831352.00	831490.12	831628.19	831766.31	831904.38	832042.50	832180.62	832318.69	832456.81	832594.88
950.4	832733.00	832871.12	833009.19	833147.31	833285.38	833423.50	833561.62	833699.69	833837.81	833975.88
950.5	834114.00	834252.12	834390.19	834528.31	834666.38	834804.50	834942.62	835080.69	835218.81	835356.88
950.6	835495.00	835633.12	835771.19	835909.31	836047.38	836185.50	836323.62	836461.69	836599.81	836737.88
950.7	836876.00	837014.12	837152.19	837290.31	837428.38	837566.50	837704.62	837842.69	837980.81	838118.88
950.8	838257.00	838395.12	838533.19	838671.31	838809.38	838947.50	839085.62	839223.69	839361.81	839499.88
950.9	839638.00	839776.12	839914.19	840052.31	840190.38	840328.50	840466.62	840604.69	840742.81	840880.88
951.0	841019.00	841157.12	841295.19	841433.31	841571.38	841709.50	841847.62	841985.69	842123.81	842261.88
951.1	842400.00	842538.12	842676.19	842814.31	842952.38	843090.50	843228.62	843366.69	843504.81	843642.88
951.2	843781.00	843919.12	844057.19	844195.31	844333.38	844471.50	844609.62	844747.69	844885.81	845023.88
951.3	845162.00	845300.12	845438.19	845576.31	845714.38	845852.50	845990.62	846128.69	846266.81	846404.88
951.4	846543.00	846681.12	846819.19	846957.31	847095.38	847233.50	847371.62	847509.69	847647.81	847785.88
951.5	847924.00	848062.12	848200.19	848338.31	848476.38	848614.50	848752.62	848890.69	849028.81	849166.88
951.6	849305.00	849443.12	849581.19	849719.31	849857.38	849995.50	850133.62	850271.69	850409.81	850547.88
951.7	850686.00	850824.12	850962.19	851100.31	851238.38	851376.50	851514.62	851652.69	851790.81	851928.88
951.8	852067.00	852205.12	852343.19	852481.31	852619.38	852757.50	852895.62	853033.69	853171.81	853309.88
951.9	853448.00	853586.12	853724.19	853862.31	854000.38	854138.50	854276.62	854414.69	854552.81	854690.88
952.0	854829.00	854967.12	855105.19	855243.31	855381.38	855519.50	855657.62	855795.69	855933.81	856071.88
952.1	856210.00	856348.12	856486.19	856624.31	856762.38	856900.50	857038.62	857176.69	857314.81	857452.88
952.2	857591.00	857729.12	857867.19	858005.31	858143.38	858281.50	858419.62	858557.69	858695.81	858833.88
952.3	858972.00	859110.12	859248.19	859386.31	859524.38	859662.50	859800.62	859938.69	860076.81	860214.88
952.4	860353.00	860491.12	860629.19	860767.31	860905.38	861043.50	861181.62	861319.69	861457.81	861595.88
952.5	861734.00	861872.12	862010.19	862148.31	862286.38	862424.50	862562.62	862700.69	862838.81	862976.88
952.6	863115.00	863253.12	863391.19	863529.31	863667.38	863805.50	863943.62	864081.69	864219.81	864357.88
952.7	864496.00	864634.12	864772.19	864910.31	865048.38	865186.50	865324.62	865462.69	865600.81	865738.88
952.8	865877.00	866015.12	866153.19	866291.31	866429.38	866567.50	866705.62	866843.69	866981.81	867119.88
952.9	867258.00	867396.12	867534.19	867672.31	867810.38	867948.50	868086.62	868224.69	868362.81	868500.88
953.0	868639.00	868777.12	868915.19	869053.31	869191.38	869329.50	869467.62	869605.69	869743.81	869881.88
953.1	870020.00	870158.12	870296.19	870434.31	870572.38	870710.50	870848.62	870986.69	871124.81	871262.88
953.2	871401.00	871539.12	871677.19	871815.31	871953.38	872091.50	872229.62	872367.69	872505.81	872643.88
953.3	872782.00	872920.12	873058.19	873196.31	873334.38	873472.50	873610.62	873748.69	873886.81	874024.88
953.4	874163.00	874301.12	874439.19	874577.31	874715.38	874853.50	874991.62	875129.69	875267.81	875405.88
953.5	875544.00	875682.12	875820.19	875958.31	876096.38	876234.50	876372.62	876510.69	876648.81	876786.88
953.6	876925.00	877063.12	877201.19	877339.31	877477.38	877615.50	877753.62	877891.69	878029.81	878167.88
953.7	878306.00	878444.12	878582.19	878720.31	878858.38	878996.50	879134.62	879272.69	879410.81	879548.88
953.8	879687.00	879825.12	879963.19	880101.31	880239.38	880377.50	880515.62	880653.69	880791.81	880929.88
953.9	881068.00	881206.12	881344.19	881482.31	881620.38	881758.50	881896.62	882034.69	882172.81	882310.88
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
954.0	882449.00	882587.12	882725.19	882863.31	883001.38	883139.50	883277.62	883415.69	883553.81	883691.88
954.1	883830.00	883968.12	884106.19	884244.31	884382.38	884520.50	884658.62	884796.69	884934.81	885072.88
954.2	885211.00	885349.12	885487.19	885625.31	885763.38	885901.50	886039.62	886177.69	886315.81	886453.88
954.3	886592.00	886730.12	886868.19	887006.31	887144.38	887282.50	887420.62	887558.69	887696.81	887834.88
954.4	887973.00	888111.12	888249.19	888387.31	888525.38	888663.50	888801.62	888939.69	889077.81	889215.88
954.5	889354.00	889492.12	889630.19	889768.31	889906.38	890044.50	890182.62	890320.69	890458.81	890596.88
954.6	890735.00	890873.12	891011.19	891149.31	891287.38	891425.50	891563.62	891701.69	891839.81	891977.88
954.7	892116.00	892254.12	892392.19	892530.31	892668.38	892806.50	892944.62	893082.69	893220.81	893358.88
954.8	893497.00	893635.12	893773.19	893911.31	894049.38	894187.50	894325.62	894463.69	894601.81	894739.88
954.9	894878.00	895016.12	895154.19	895292.31	895430.38	895568.50	895706.62	895844.69	895982.81	896120.88
955.0	896259.00	896406.44	896553.88	896701.38	896848.81	896996.25	897143.69	897291.12	897438.62	897586.06
955.1	897733.50	897880.94	898028.38	898175.88	898323.31	898470.75	898618.19	898765.62	898913.12	899060.56
955.2	899208.00	899355.44	899502.88	899650.38	899797.81	899945.25	900092.69	900240.12	900387.62	900535.06
955.3	900682.50	900829.94	900977.38	901124.88	901272.31	901419.75	901567.19	901714.62	901862.12	902009.56
955.4	902157.00	902304.44	902451.88	902599.38	902746.81	902894.25	903041.69	903189.12	903336.62	903484.06
955.5	903631.50	903778.94	903926.38	904073.88	904221.31	904368.75	904516.19	904663.62	904811.12	904958.56
955.6	905106.00	905253.44	905400.88	905548.38	905695.81	905843.25	905990.69	906138.12	906285.62	906433.06
955.7	906580.50	906727.94	906875.38	907022.88	907170.31	907317.75	907465.19	907612.62	907760.12	907907.56
955.8	908055.00	908202.44	908349.88	908497.38	908644.81	908792.25	908939.69	909087.12	909234.62	909382.06
955.9	909529.50	909676.94	909824.38	909971.88	910119.31	910266.75	910414.19	910561.62	910709.12	910856.56
956.0	911004.00	911152.75	911301.50	911450.25	911599.00	911747.75	911896.50	912045.25	912194.00	912342.75
956.1	912491.50	912640.25	912789.00	912937.75	913086.50	913235.25	913384.00	913532.75	913681.50	913830.25
956.2	913979.00	914127.75	914276.50	914425.25	914574.00	914722.75	914871.50	915020.25	915169.00	915317.75
956.3	915466.50	915615.25	915764.00	915912.75	916061.50	916210.25	916359.00	916507.75	916656.50	916805.25
956.4	916954.00	917102.75	917251.50	917400.25	917549.00	917697.75	917846.50	917995.25	918144.00	918292.75
956.5	918441.50	918590.25	918739.00	918887.75	919036.50	919185.25	919334.00	919482.75	919631.50	919780.25
956.6	919929.00	920077.75	920226.50	920375.25	920524.00	920672.75	920821.50	920970.25	921119.00	921267.75
956.7	921416.50	921565.25	921714.00	921862.75	922011.50	922160.25	922309.00	922457.75	922606.50	922755.25
956.8	922904.00	923052.75	923201.50	923350.25	923499.00	923647.75	923796.50	923945.25	924094.00	924242.75
956.9	924391.50	924540.25	924689.00	924837.75	924986.50	925135.25	925284.00	925432.75	925581.50	925730.25
957.0	925879.00	926029.38	926179.69	926330.06	926480.38	926630.75	926781.12	926931.44	927081.81	927232.12
957.1	927382.50	927532.88	927683.19	927833.56	927983.88	928134.25	928284.62	928434.94	928585.31	928735.62
957.2	928886.00	929036.38	929186.69	929337.06	929487.38	929637.75	929788.12	929938.44	930088.81	930239.12
957.3	930389.50	930539.88	930690.19	930840.56	930990.88	931141.25	931291.62	931441.94	931592.31	931742.62
957.4	931893.00	932043.38	932193.69	932344.06	932494.38	932644.75	932795.12	932945.44	933095.81	933246.12
957.5	933396.50	933546.88	933697.19	933847.56	933997.88	934148.25	934298.62	934448.94	934599.31	934749.62
957.6	934900.00	935050.38	935200.69	935351.06	935501.38	935651.75	935802.12	935952.44	936102.81	936253.12
957.7	936403.50	936553.88	936704.19	936854.56	937004.88	937155.25	937305.62	937455.94	937606.31	937756.62
957.8	937907.00	938057.38	938207.69	938358.06	938508.38	938658.75	938809.12	938959.44	939109.81	939260.12
957.9	939410.50	939560.88	939711.19	939861.56	940011.88	940162.25	940312.62	940462.94	940613.31	940763.62
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
958.0	940914.00	941066.12	941218.19	941370.31	941522.38	941674.50	941826.62	941978.69	942130.81	942282.88
958.1	942435.00	942587.12	942739.19	942891.31	943043.38	943195.50	943347.62	943499.69	943651.81	943803.88
958.2	943956.00	944108.12	944260.19	944412.31	944564.38	944716.50	944868.62	945020.69	945172.81	945324.88
958.3	945477.00	945629.12	945781.19	945933.31	946085.38	946237.50	946389.62	946541.69	946693.81	946845.88
958.4	946998.00	947150.12	947302.19	947454.31	947606.38	947758.50	947910.62	948062.69	948214.81	948366.88
958.5	948519.00	948671.12	948823.19	948975.31	949127.38	949279.50	949431.62	949583.69	949735.81	949887.88
958.6	950040.00	950192.12	950344.19	950496.31	950648.38	950800.50	950952.62	951104.69	951256.81	951408.88
958.7	951561.00	951713.12	951865.19	952017.31	952169.38	952321.50	952473.62	952625.69	952777.81	952929.88
958.8	953082.00	953234.12	953386.19	953538.31	953690.38	953842.50	953994.62	954146.69	954298.81	954450.88
958.9	954603.00	954755.12	954907.19	955059.31	955211.38	955363.50	955515.62	955667.69	955819.81	955971.88
959.0	956124.00	956277.88	956431.81	956585.69	956739.62	956893.50	957047.38	957201.31	957355.19	957509.12
959.1	957663.00	957816.88	957970.81	958124.69	958278.62	958432.50	958586.38	958740.31	958894.19	959048.12
959.2	959202.00	959355.88	959509.81	959663.69	959817.62	959971.50	960125.38	960279.31	960433.19	960587.12
959.3	960741.00	960894.88	961048.81	961202.69	961356.62	961510.50	961664.38	961818.31	961972.19	962126.12
959.4	962280.00	962433.88	962587.81	962741.69	962895.62	963049.50	963203.38	963357.31	963511.19	963665.12
959.5	963819.00	963972.88	964126.81	964280.69	964434.62	964588.50	964742.38	964896.31	965050.19	965204.12
959.6	965358.00	965511.88	965665.81	965819.69	965973.62	966127.50	966281.38	966435.31	966589.19	966743.12
959.7	966897.00	967050.88	967204.81	967358.69	967512.62	967666.50	967820.38	967974.31	968128.19	968282.12
959.8	968436.00	968589.88	968743.81	968897.69	969051.62	969205.50	969359.38	969513.31	969667.19	969821.12
959.9	969975.00	970128.88	970282.81	970436.69	970590.62	970744.50	970898.38	971052.31	971206.19	971360.12
960.0	971514.00	971669.56	971825.12	971980.62	972136.19	972291.75	972447.31	972602.88	972758.38	972913.94
960.1	973069.50	973225.06	973380.62	973536.12	973691.69	973847.25	974002.81	974158.38	974313.88	974469.44
960.2	974625.00	974780.56	974936.12	975091.62	975247.19	975402.75	975558.31	975713.88	975869.38	976024.94
960.3	976180.50	976336.06	976491.62	976647.12	976802.69	976958.25	977113.81	977269.38	977424.88	977580.44
960.4	977736.00	977891.56	978047.12	978202.62	978358.19	978513.75	978669.31	978824.88	978980.38	979135.94
960.5	979291.50	979447.06	979602.62	979758.12	979913.69	980069.25	980224.81	980380.38	980535.88	980691.44
960.6	980847.00	981002.56	981158.12	981313.62	981469.19	981624.75	981780.31	981935.88	982091.38	982246.94
960.7	982402.50	982558.06	982713.62	982869.12	983024.69	983180.25	983335.81	983491.38	983646.88	983802.44
960.8	983958.00	984113.56	984269.12	984424.62	984580.19	984735.75	984891.31	985046.88	985202.38	985357.94
960.9	985513.50	985669.06	985824.62	985980.12	986135.69	986291.25	986446.81	986602.38	986757.88	986913.44
961.0	987069.00	987226.19	987383.38	987540.62	987697.81	987855.00	988012.19	988169.38	988326.62	988483.81
961.1	988641.00	988798.19	988955.38	989112.62	989269.81	989427.00	989584.19	989741.38	989898.62	990055.81
961.2	990213.00	990370.19	990527.38	990684.62	990841.81	990999.00	991156.19	991313.38	991470.62	991627.81
961.3	991785.00	991942.19	992099.38	992256.62	992413.81	992571.00	992728.19	992885.38	993042.62	993199.81
961.4	993357.00	993514.19	993671.38	993828.62	993985.81	994143.00	994300.19	994457.38	994614.62	994771.81
961.5	994929.00	995086.19	995243.38	995400.62	995557.81	995715.00	995872.19	996029.38	996186.62	996343.81
961.6	996501.00	996658.19	996815.38	996972.62	997129.81	997287.00	997444.19	997601.38	997758.62	997915.81
961.7	998073.00	998230.19	998387.38	998544.62	998701.81	998859.00	999016.19	999173.38	999330.62	999487.81
961.8	999645.00	999802.19	999959.38	1000116.62	1000273.81	1000431.00	1000588.19	1000745.38	1000902.62	1001059.81
961.9	1001217.00	1001374.19	1001531.38	1001688.62	1001845.81	1002003.00	1002160.19	1002317.38	1002474.62	1002631.81
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
962.0	1002789.00	1002948.06	1003107.12	1003266.12	1003425.19	1003584.25	1003743.31	1003902.38	1004061.38	1004220.44
962.1	1004379.50	1004538.56	1004697.62	1004856.62	1005015.69	1005174.75	1005333.81	1005492.88	1005651.88	1005810.94
962.2	1005970.00	1006129.06	1006288.12	1006447.12	1006606.19	1006765.25	1006924.31	1007083.38	1007242.38	1007401.44
962.3	1007560.50	1007719.56	1007878.62	1008037.62	1008196.69	1008355.75	1008514.81	1008673.88	1008832.88	1008991.94
962.4	1009151.00	1009310.06	1009469.12	1009628.12	1009787.19	1009946.25	1010105.31	1010264.38	1010423.38	1010582.44
962.5	1010741.50	1010900.56	1011059.62	1011218.62	1011377.69	1011536.75	1011695.81	1011854.88	1012013.88	1012172.94
962.6	1012332.00	1012491.06	1012650.12	1012809.12	1012968.19	1013127.25	1013286.31	1013445.38	1013604.38	1013763.44
962.7	1013922.50	1014081.56	1014240.62	1014399.62	1014558.69	1014717.75	1014876.81	1015035.88	1015194.88	1015353.94
962.8	1015513.00	1015672.06	1015831.12	1015990.12	1016149.19	1016308.25	1016467.31	1016626.38	1016785.38	1016944.44
962.9	1017103.50	1017262.56	1017421.62	1017580.62	1017739.69	1017898.75	1018057.81	1018216.88	1018375.88	1018534.94
963.0	1018694.00	1018854.88	1019015.81	1019176.69	1019337.62	1019498.50	1019659.38	1019820.31	1019981.19	1020142.12
963.1	1020303.00	1020463.88	1020624.81	1020785.69	1020946.62	1021107.50	1021268.38	1021429.31	1021590.19	1021751.12
963.2	1021912.00	1022072.88	1022233.81	1022394.69	1022555.62	1022716.50	1022877.38	1023038.31	1023199.19	1023360.12
963.3	1023521.00	1023681.88	1023842.81	1024003.69	1024164.62	1024325.50	1024486.38	1024647.31	1024808.19	1024969.12
963.4	1025130.00	1025290.88	1025451.81	1025612.69	1025773.62	1025934.50	1026095.38	1026256.31	1026417.19	1026578.12
963.5	1026739.00	1026899.88	1027060.81	1027221.69	1027382.62	1027543.50	1027704.38	1027865.31	1028026.19	1028187.12
963.6	1028348.00	1028508.88	1028669.81	1028830.69	1028991.62	1029152.50	1029313.38	1029474.31	1029635.19	1029796.12
963.7	1029957.00	1030117.88	1030278.81	1030439.69	1030600.62	1030761.50	1030922.38	1031083.31	1031244.19	1031405.12
963.8	1031566.00	1031726.88	1031887.81	1032048.69	1032209.62	1032370.50	1032531.38	1032692.31	1032853.19	1033014.12
963.9	1033175.00	1033335.88	1033496.81	1033657.69	1033818.62	1033979.50	1034140.38	1034301.31	1034462.19	1034623.12
964.0	1034784.00	1034946.75	1035109.50	1035272.25	1035435.00	1035597.75	1035760.50	1035923.25	1036086.00	1036248.75
964.1	1036411.50	1036574.25	1036737.00	1036899.75	1037062.50	1037225.25	1037388.00	1037550.75	1037713.50	1037876.25
964.2	1038039.00	1038201.75	1038364.50	1038527.25	1038690.00	1038852.75	1039015.50	1039178.25	1039341.00	1039503.75
964.3	1039666.50	1039829.25	1039992.00	1040154.75	1040317.50	1040480.25	1040643.00	1040805.75	1040968.50	1041131.25
964.4	1041294.00	1041456.75	1041619.50	1041782.25	1041945.00	1042107.75	1042270.50	1042433.25	1042596.00	1042758.75
964.5	1042921.50	1043084.25	1043247.00	1043409.75	1043572.50	1043735.25	1043898.00	1044060.75	1044223.50	1044386.25
964.6	1044549.00	1044711.75	1044874.50	1045037.25	1045200.00	1045362.75	1045525.50	1045688.25	1045851.00	1046013.75
964.7	1046176.50	1046339.25	1046502.00	1046664.75	1046827.50	1046990.25	1047153.00	1047315.75	1047478.50	1047641.25
964.8	1047804.00	1047966.75	1048129.50	1048292.25	1048455.00	1048617.75	1048780.50	1048943.25	1049106.00	1049268.75
964.9	1049431.50	1049594.25	1049757.00	1049919.75	1050082.50	1050245.25	1050408.00	1050570.75	1050733.50	1050896.25
965.0	1051059.00	1051223.62	1051388.25	1051553.00	1051717.62	1051882.25	1052046.88	1052211.50	1052376.25	1052540.88
965.1	1052705.50	1052870.12	1053034.75	1053199.50	1053364.12	1053528.75	1053693.38	1053858.00	1054022.75	1054187.38
965.2	1054352.00	1054516.62	1054681.25	1054846.00	1055010.62	1055175.25	1055339.88	1055504.50	1055669.25	1055833.88
965.3	1055998.50	1056163.12	1056327.75	1056492.50	1056657.12	1056821.75	1056986.38	1057151.00	1057315.75	1057480.38
965.4	1057645.00	1057809.62	1057974.25	1058139.00	1058303.62	1058468.25	1058632.88	1058797.50	1058962.25	1059126.88
965.5	1059291.50	1059456.12	1059620.75	1059785.50	1059950.12	1060114.75	1060279.38	1060444.00	1060608.75	1060773.38
965.6	1060938.00	1061102.62	1061267.25	1061432.00	1061596.62	1061761.25	1061925.88	1062090.50	1062255.25	1062419.88
965.7	1062584.50	1062749.12	1062913.75	1063078.50	1063243.12	1063407.75	1063572.38	1063737.00	1063901.75	1064066.38
965.8	1064231.00	1064395.62	1064560.25	1064725.00	1064889.62	1065054.25	1065218.88	1065383.50	1065548.25	1065712.88
965.9	1065877.50	1066042.12	1066206.75	1066371.50	1066536.12	1066700.75	1066865.38	1067030.00	1067194.75	1067359.38
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
966.0	1067524.00	1067690.50	1067857.00	1068023.50	1068190.00	1068356.50	1068523.00	1068689.50	1068856.00	1069022.50
966.1	1069189.00	1069355.50	1069522.00	1069688.50	1069855.00	1070021.50	1070188.00	1070354.50	1070521.00	1070687.50
966.2	1070854.00	1071020.50	1071187.00	1071353.50	1071520.00	1071686.50	1071853.00	1072019.50	1072186.00	1072352.50
966.3	1072519.00	1072685.50	1072852.00	1073018.50	1073185.00	1073351.50	1073518.00	1073684.50	1073851.00	1074017.50
966.4	1074184.00	1074350.50	1074517.00	1074683.50	1074850.00	1075016.50	1075183.00	1075349.50	1075516.00	1075682.50
966.5	1075849.00	1076015.50	1076182.00	1076348.50	1076515.00	1076681.50	1076848.00	1077014.50	1077181.00	1077347.50
966.6	1077514.00	1077680.50	1077847.00	1078013.50	1078180.00	1078346.50	1078513.00	1078679.50	1078846.00	1079012.50
966.7	1079179.00	1079345.50	1079512.00	1079678.50	1079845.00	1080011.50	1080178.00	1080344.50	1080511.00	1080677.50
966.8	1080844.00	1081010.50	1081177.00	1081343.50	1081510.00	1081676.50	1081843.00	1082009.50	1082176.00	1082342.50
966.9	1082509.00	1082675.50	1082842.00	1083008.50	1083175.00	1083341.50	1083508.00	1083674.50	1083841.00	1084007.50
967.0	1084174.00	1084342.38	1084510.75	1084679.25	1084847.62	1085016.00	1085184.38	1085352.75	1085521.25	1085689.62
967.1	1085858.00	1086026.38	1086194.75	1086363.25	1086531.62	1086700.00	1086868.38	1087036.75	1087205.25	1087373.62
967.2	1087542.00	1087710.38	1087878.75	1088047.25	1088215.62	1088384.00	1088552.38	1088720.75	1088889.25	1089057.62
967.3	1089226.00	1089394.38	1089562.75	1089731.25	1089899.62	1090068.00	1090236.38	1090404.75	1090573.25	1090741.62
967.4	1090910.00	1091078.38	1091246.75	1091415.25	1091583.62	1091752.00	1091920.38	1092088.75	1092257.25	1092425.62
967.5	1092594.00	1092762.38	1092930.75	1093099.25	1093267.62	1093436.00	1093604.38	1093772.75	1093941.25	1094109.62
967.6	1094278.00	1094446.38	1094614.75	1094783.25	1094951.62	1095120.00	1095288.38	1095456.75	1095625.25	1095793.62
967.7	1095962.00	1096130.38	1096298.75	1096467.25	1096635.62	1096804.00	1096972.38	1097140.75	1097309.25	1097477.62
967.8	1097646.00	1097814.38	1097982.75	1098151.25	1098319.62	1098488.00	1098656.38	1098824.75	1098993.25	1099161.62
967.9	1099330.00	1099498.38	1099666.75	1099835.25	1100003.62	1100172.00	1100340.38	1100508.75	1100677.25	1100845.62
968.0	1101014.00	1101184.25	1101354.38	1101524.62	1101694.75	1101865.00	1102035.25	1102205.38	1102375.62	1102545.75
968.1	1102716.00	1102886.25	1103056.38	1103226.62	1103396.75	1103567.00	1103737.25	1103907.38	1104077.62	1104247.75
968.2	1104418.00	1104588.25	1104758.38	1104928.62	1105098.75	1105269.00	1105439.25	1105609.38	1105779.62	1105949.75
968.3	1106120.00	1106290.25	1106460.38	1106630.62	1106800.75	1106971.00	1107141.25	1107311.38	1107481.62	1107651.75
968.4	1107822.00	1107992.25	1108162.38	1108332.62	1108502.75	1108673.00	1108843.25	1109013.38	1109183.62	1109353.75
968.5	1109524.00	1109694.25	1109864.38	1110034.62	1110204.75	1110375.00	1110545.25	1110715.38	1110885.62	1111055.75
968.6	1111226.00	1111396.25	1111566.38	1111736.62	1111906.75	1112077.00	1112247.25	1112417.38	1112587.62	1112757.75
968.7	1112928.00	1113098.25	1113268.38	1113438.62	1113608.75	1113779.00	1113949.25	1114119.38	1114289.62	1114459.75
968.8	1114630.00	1114800.25	1114970.38	1115140.62	1115310.75	1115481.00	1115651.25	1115821.38	1115991.62	1116161.75
968.9	1116332.00	1116502.25	1116672.38	1116842.62	1117012.75	1117183.00	1117353.25	1117523.38	1117693.62	1117863.75
969.0	1118034.00	1118206.12	1118378.25	1118550.25	1118722.38	1118894.50	1119066.62	1119238.75	1119410.75	1119582.88
969.1	1119755.00	1119927.12	1120099.25	1120271.25	1120443.38	1120615.50	1120787.62	1120959.75	1121131.75	1121303.88
969.2	1121476.00	1121648.12	1121820.25	1121992.25	1122164.38	1122336.50	1122508.62	1122680.75	1122852.75	1123024.88
969.3	1123197.00	1123369.12	1123541.25	1123713.25	1123885.38	1124057.50	1124229.62	1124401.75	1124573.75	1124745.88
969.4	1124918.00	1125090.12	1125262.25	1125434.25	1125606.38	1125778.50	1125950.62	1126122.75	1126294.75	1126466.88
969.5	1126639.00	1126811.12	1126983.25	1127155.25	1127327.38	1127499.50	1127671.62	1127843.75	1128015.75	1128187.88
969.6	1128360.00	1128532.12	1128704.25	1128876.25	1129048.38	1129220.50	1129392.62	1129564.75	1129736.75	1129908.88
969.7	1130081.00	1130253.12	1130425.25	1130597.25	1130769.38	1130941.50	1131113.62	1131285.75	1131457.75	1131629.88
969.8	1131802.00	1131974.12	1132146.25	1132318.25	1132490.38	1132662.50	1132834.62	1133006.75	1133178.75	1133350.88
969.9	1133523.00	1133695.12	1133867.25	1134039.25	1134211.38	1134383.50	1134555.62	1134727.75	1134899.75	1135071.88
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
970.0	1135244.00	1135418.00	1135592.00	1135766.00	1135940.00	1136114.00	1136288.00	1136462.00	1136636.00	1136810.00
970.1	1136984.00	1137158.00	1137332.00	1137506.00	1137680.00	1137854.00	1138028.00	1138202.00	1138376.00	1138550.00
970.2	1138724.00	1138898.00	1139072.00	1139246.00	1139420.00	1139594.00	1139768.00	1139942.00	1140116.00	1140290.00
970.3	1140464.00	1140638.00	1140812.00	1140986.00	1141160.00	1141334.00	1141508.00	1141682.00	1141856.00	1142030.00
970.4	1142204.00	1142378.00	1142552.00	1142726.00	1142900.00	1143074.00	1143248.00	1143422.00	1143596.00	1143770.00
970.5	1143944.00	1144118.00	1144292.00	1144466.00	1144640.00	1144814.00	1144988.00	1145162.00	1145336.00	1145510.00
970.6	1145684.00	1145858.00	1146032.00	1146206.00	1146380.00	1146554.00	1146728.00	1146902.00	1147076.00	1147250.00
970.7	1147424.00	1147598.00	1147772.00	1147946.00	1148120.00	1148294.00	1148468.00	1148642.00	1148816.00	1148990.00
970.8	1149164.00	1149338.00	1149512.00	1149686.00	1149860.00	1150034.00	1150208.00	1150382.00	1150556.00	1150730.00
970.9	1150904.00	1151078.00	1151252.00	1151426.00	1151600.00	1151774.00	1151948.00	1152122.00	1152296.00	1152470.00
971.0	1152644.00	1152819.75	1152995.38	1153171.12	1153346.75	1153522.50	1153698.25	1153873.88	1154049.62	1154225.25
971.1	1154401.00	1154576.75	1154752.38	1154928.12	1155103.75	1155279.50	1155455.25	1155630.88	1155806.62	1155982.25
971.2	1156158.00	1156333.75	1156509.38	1156685.12	1156860.75	1157036.50	1157212.25	1157387.88	1157563.62	1157739.25
971.3	1157915.00	1158090.75	1158266.38	1158442.12	1158617.75	1158793.50	1158969.25	1159144.88	1159320.62	1159496.25
971.4	1159672.00	1159847.75	1160023.38	1160199.12	1160374.75	1160550.50	1160726.25	1160901.88	1161077.62	1161253.25
971.5	1161429.00	1161604.75	1161780.38	1161956.12	1162131.75	1162307.50	1162483.25	1162658.88	1162834.62	1163010.25
971.6	1163186.00	1163361.75	1163537.38	1163713.12	1163888.75	1164064.50	1164240.25	1164415.88	1164591.62	1164767.25
971.7	1164943.00	1165118.75	1165294.38	1165470.12	1165645.75	1165821.50	1165997.25	1166172.88	1166348.62	1166524.25
971.8	1166700.00	1166875.75	1167051.38	1167227.12	1167402.75	1167578.50	1167754.25	1167929.88	1168105.62	1168281.25
971.9	1168457.00	1168632.75	1168808.38	1168984.12	1169159.75	1169335.50	1169511.25	1169686.88	1169862.62	1170038.25
972.0	1170214.00	1170391.38	1170568.75	1170746.25	1170923.62	1171101.00	1171278.38	1171455.75	1171633.25	1171810.62
972.1	1171988.00	1172165.38	1172342.75	1172520.25	1172697.62	1172875.00	1173052.38	1173229.75	1173407.25	1173584.62
972.2	1173762.00	1173939.38	1174116.75	1174294.25	1174471.62	1174649.00	1174826.38	1175003.75	1175181.25	1175358.62
972.3	1175536.00	1175713.38	1175890.75	1176068.25	1176245.62	1176423.00	1176600.38	1176777.75	1176955.25	1177132.62
972.4	1177310.00	1177487.38	1177664.75	1177842.25	1178019.62	1178197.00	1178374.38	1178551.75	1178729.25	1178906.62
972.5	1179084.00	1179261.38	1179438.75	1179616.25	1179793.62	1179971.00	1180148.38	1180325.75	1180503.25	1180680.62
972.6	1180858.00	1181035.38	1181212.75	1181390.25	1181567.62	1181745.00	1181922.38	1182099.75	1182277.25	1182454.62
972.7	1182632.00	1182809.38	1182986.75	1183164.25	1183341.62	1183519.00	1183696.38	1183873.75	1184051.25	1184228.62
972.8	1184406.00	1184583.38	1184760.75	1184938.25	1185115.62	1185293.00	1185470.38	1185647.75	1185825.25	1186002.62
972.9	1186180.00	1186357.38	1186534.75	1186712.25	1186889.62	1187067.00	1187244.38	1187421.75	1187599.25	1187776.62
973.0	1187954.00	1188133.12	1188312.25	1188491.25	1188670.38	1188849.50	1189028.62	1189207.75	1189386.75	1189565.88
973.1	1189745.00	1189924.12	1190103.25	1190282.25	1190461.38	1190640.50	1190819.62	1190998.75	1191177.75	1191356.88
973.2	1191536.00	1191715.12	1191894.25	1192073.25	1192252.38	1192431.50	1192610.62	1192789.75	1192968.75	1193147.88
973.3	1193327.00	1193506.12	1193685.25	1193864.25	1194043.38	1194222.50	1194401.62	1194580.75	1194759.75	1194938.88
973.4	1195118.00	1195297.12	1195476.25	1195655.25	1195834.38	1196013.50	1196192.62	1196371.75	1196550.75	1196729.88
973.5	1196909.00	1197088.12	1197267.25	1197446.25	1197625.38	1197804.50	1197983.62	1198162.75	1198341.75	1198520.88
973.6	1198700.00	1198879.12	1199058.25	1199237.25	1199416.38	1199595.50	1199774.62	1199953.75	1200132.75	1200311.88
973.7	1200491.00	1200670.12	1200849.25	1201028.25	1201207.38	1201386.50	1201565.62	1201744.75	1201923.75	1202102.88
973.8	1202282.00	1202461.12	1202640.25	1202819.25	1202998.38	1203177.50	1203356.62	1203535.75	1203714.75	1203893.88
973.9	1204073.00	1204252.12	1204431.25	1204610.25	1204789.38	1204968.50	1205147.62	1205326.75	1205505.75	1205684.88
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
974.0	1205864.00	1206045.00	1206225.88	1206406.88	1206587.75	1206768.75	1206949.75	1207130.62	1207311.62	1207492.50
974.1	1207673.50	1207854.50	1208035.38	1208216.38	1208397.25	1208578.25	1208759.25	1208940.12	1209121.12	1209302.00
974.2	1209483.00	1209664.00	1209844.88	1210025.88	1210206.75	1210387.75	1210568.75	1210749.62	1210930.62	1211111.50
974.3	1211292.50	1211473.50	1211654.38	1211835.38	1212016.25	1212197.25	1212378.25	1212559.12	1212740.12	1212921.00
974.4	1213102.00	1213283.00	1213463.88	1213644.88	1213825.75	1214006.75	1214187.75	1214368.62	1214549.62	1214730.50
974.5	1214911.50	1215092.50	1215273.38	1215454.38	1215635.25	1215816.25	1215997.25	1216178.12	1216359.12	1216540.00
974.6	1216721.00	1216902.00	1217082.88	1217263.88	1217444.75	1217625.75	1217806.75	1217987.62	1218168.62	1218349.50
974.7	1218530.50	1218711.50	1218892.38	1219073.38	1219254.25	1219435.25	1219616.25	1219797.12	1219978.12	1220159.00
974.8	1220340.00	1220521.00	1220701.88	1220882.88	1221063.75	1221244.75	1221425.75	1221606.62	1221787.62	1221968.50
974.9	1222149.50	1222330.50	1222511.38	1222692.38	1222873.25	1223054.25	1223235.25	1223416.12	1223597.12	1223778.00
975.0	1223959.00	1224141.75	1224324.50	1224507.25	1224690.00	1224872.75	1225055.50	1225238.25	1225421.00	1225603.75
975.1	1225786.50	1225969.25	1226152.00	1226334.75	1226517.50	1226700.25	1226883.00	1227065.75	1227248.50	1227431.25
975.2	1227614.00	1227796.75	1227979.50	1228162.25	1228345.00	1228527.75	1228710.50	1228893.25	1229076.00	1229258.75
975.3	1229441.50	1229624.25	1229807.00	1229989.75	1230172.50	1230355.25	1230538.00	1230720.75	1230903.50	1231086.25
975.4	1231269.00	1231451.75	1231634.50	1231817.25	1232000.00	1232182.75	1232365.50	1232548.25	1232731.00	1232913.75
975.5	1233096.50	1233279.25	1233462.00	1233644.75	1233827.50	1234010.25	1234193.00	1234375.75	1234558.50	1234741.25
975.6	1234924.00	1235106.75	1235289.50	1235472.25	1235655.00	1235837.75	1236020.50	1236203.25	1236386.00	1236568.75
975.7	1236751.50	1236934.25	1237117.00	1237299.75	1237482.50	1237665.25	1237848.00	1238030.75	1238213.50	1238396.25
975.8	1238579.00	1238761.75	1238944.50	1239127.25	1239310.00	1239492.75	1239675.50	1239858.25	1240041.00	1240223.75
975.9	1240406.50	1240589.25	1240772.00	1240954.75	1241137.50	1241320.25	1241503.00	1241685.75	1241868.50	1242051.25
976.0	1242234.00	1242418.38	1242602.75	1242787.25	1242971.62	1243156.00	1243340.38	1243524.75	1243709.25	1243893.62
976.1	1244078.00	1244262.38	1244446.75	1244631.25	1244815.62	1245000.00	1245184.38	1245368.75	1245553.25	1245737.62
976.2	1245922.00	1246106.38	1246290.75	1246475.25	1246659.62	1246844.00	1247028.38	1247212.75	1247397.25	1247581.62
976.3	1247766.00	1247950.38	1248134.75	1248319.25	1248503.62	1248688.00	1248872.38	1249056.75	1249241.25	1249425.62
976.4	1249610.00	1249794.38	1249978.75	1250163.25	1250347.62	1250532.00	1250716.38	1250900.75	1251085.25	1251269.62
976.5	1251454.00	1251638.38	1251822.75	1252007.25	1252191.62	1252376.00	1252560.38	1252744.75	1252929.25	1253113.62
976.6	1253298.00	1253482.38	1253666.75	1253851.25	1254035.62	1254220.00	1254404.38	1254588.75	1254773.25	1254957.62
976.7	1255142.00	1255326.38	1255510.75	1255695.25	1255879.62	1256064.00	1256248.38	1256432.75	1256617.25	1256801.62
976.8	1256986.00	1257170.38	1257354.75	1257539.25	1257723.62	1257908.00	1258092.38	1258276.75	1258461.25	1258645.62
976.9	1258830.00	1259014.38	1259198.75	1259383.25	1259567.62	1259752.00	1259936.38	1260120.75	1260305.25	1260489.62
977.0	1260674.00	1260860.12	1261046.25	1261232.25	1261418.38	1261604.50	1261790.62	1261976.75	1262162.75	1262348.88
977.1	1262535.00	1262721.12	1262907.25	1263093.25	1263279.38	1263465.50	1263651.62	1263837.75	1264023.75	1264209.88
977.2	1264396.00	1264582.12	1264768.25	1264954.25	1265140.38	1265326.50	1265512.62	1265698.75	1265884.75	1266070.88
977.3	1266257.00	1266443.12	1266629.25	1266815.25	1267001.38	1267187.50	1267373.62	1267559.75	1267745.75	1267931.88
977.4	1268118.00	1268304.12	1268490.25	1268676.25	1268862.38	1269048.50	1269234.62	1269420.75	1269606.75	1269792.88
977.5	1269979.00	1270165.12	1270351.25	1270537.25	1270723.38	1270909.50	1271095.62	1271281.75	1271467.75	1271653.88
977.6	1271840.00	1272026.12	1272212.25	1272398.25	1272584.38	1272770.50	1272956.62	1273142.75	1273328.75	1273514.88
977.7	1273701.00	1273887.12	1274073.25	1274259.25	1274445.38	1274631.50	1274817.62	1275003.75	1275189.75	1275375.88
977.8	1275562.00	1275748.12	1275934.25	1276120.25	1276306.38	1276492.50	1276678.62	1276864.75	1277050.75	1277236.88
977.9	1277423.00	1277609.12	1277795.25	1277981.25	1278167.38	1278353.50	1278539.62	1278725.75	1278911.75	1279097.88
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

TABLE 7-4 (Continued)

CANYON DAM AND LAKE - ELEVATION vs. CAPACITY

ELEVATIONS IN FEET-NGVD, CAPACITY (IN THOUSAND ACRE-FEET)

ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
978.0	1279284.00	1279472.00	1279660.00	1279848.00	1280036.00	1280224.00	1280412.00	1280600.00	1280788.00	1280976.00
978.1	1281164.00	1281352.00	1281540.00	1281728.00	1281916.00	1282104.00	1282292.00	1282480.00	1282668.00	1282856.00
978.2	1283044.00	1283232.00	1283420.00	1283608.00	1283796.00	1283984.00	1284172.00	1284360.00	1284548.00	1284736.00
978.3	1284924.00	1285112.00	1285300.00	1285488.00	1285676.00	1285864.00	1286052.00	1286240.00	1286428.00	1286616.00
978.4	1286804.00	1286992.00	1287180.00	1287368.00	1287556.00	1287744.00	1287932.00	1288120.00	1288308.00	1288496.00
978.5	1288684.00	1288872.00	1289060.00	1289248.00	1289436.00	1289624.00	1289812.00	1290000.00	1290188.00	1290376.00
978.6	1290564.00	1290752.00	1290940.00	1291128.00	1291316.00	1291504.00	1291692.00	1291880.00	1292068.00	1292256.00
978.7	1292444.00	1292632.00	1292820.00	1293008.00	1293196.00	1293384.00	1293572.00	1293760.00	1293948.00	1294136.00
978.8	1294324.00	1294512.00	1294700.00	1294888.00	1295076.00	1295264.00	1295452.00	1295640.00	1295828.00	1296016.00
978.9	1296204.00	1296392.00	1296580.00	1296768.00	1296956.00	1297144.00	1297332.00	1297520.00	1297708.00	1297896.00
979.0	1298084.00	1298273.75	1298463.62	1298653.38	1298843.25	1299033.00	1299222.75	1299412.62	1299602.38	1299792.25
979.1	1299982.00	1300171.75	1300361.62	1300551.38	1300741.25	1300931.00	1301120.75	1301310.62	1301500.38	1301690.25
979.2	1301880.00	1302069.75	1302259.62	1302449.38	1302639.25	1302829.00	1303018.75	1303208.62	1303398.38	1303588.25
979.3	1303778.00	1303967.75	1304157.62	1304347.38	1304537.25	1304727.00	1304916.75	1305106.62	1305296.38	1305486.25
979.4	1305676.00	1305865.75	1306055.62	1306245.38	1306435.25	1306625.00	1306814.75	1307004.62	1307194.38	1307384.25
979.5	1307574.00	1307763.75	1307953.62	1308143.38	1308333.25	1308523.00	1308712.75	1308902.62	1309092.38	1309282.25
979.6	1309472.00	1309661.75	1309851.62	1310041.38	1310231.25	1310421.00	1310610.75	1310800.62	1310990.38	1311180.25
979.7	1311370.00	1311559.75	1311749.62	1311939.38	1312129.25	1312319.00	1312508.75	1312698.62	1312888.38	1313078.25
979.8	1313268.00	1313457.75	1313647.62	1313837.38	1314027.25	1314217.00	1314406.75	1314596.62	1314786.38	1314976.25
979.9	1315166.00	1315355.75	1315545.62	1315735.38	1315925.25	1316115.00	1316304.75	1316494.62	1316684.38	1316874.25
ELEV	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09