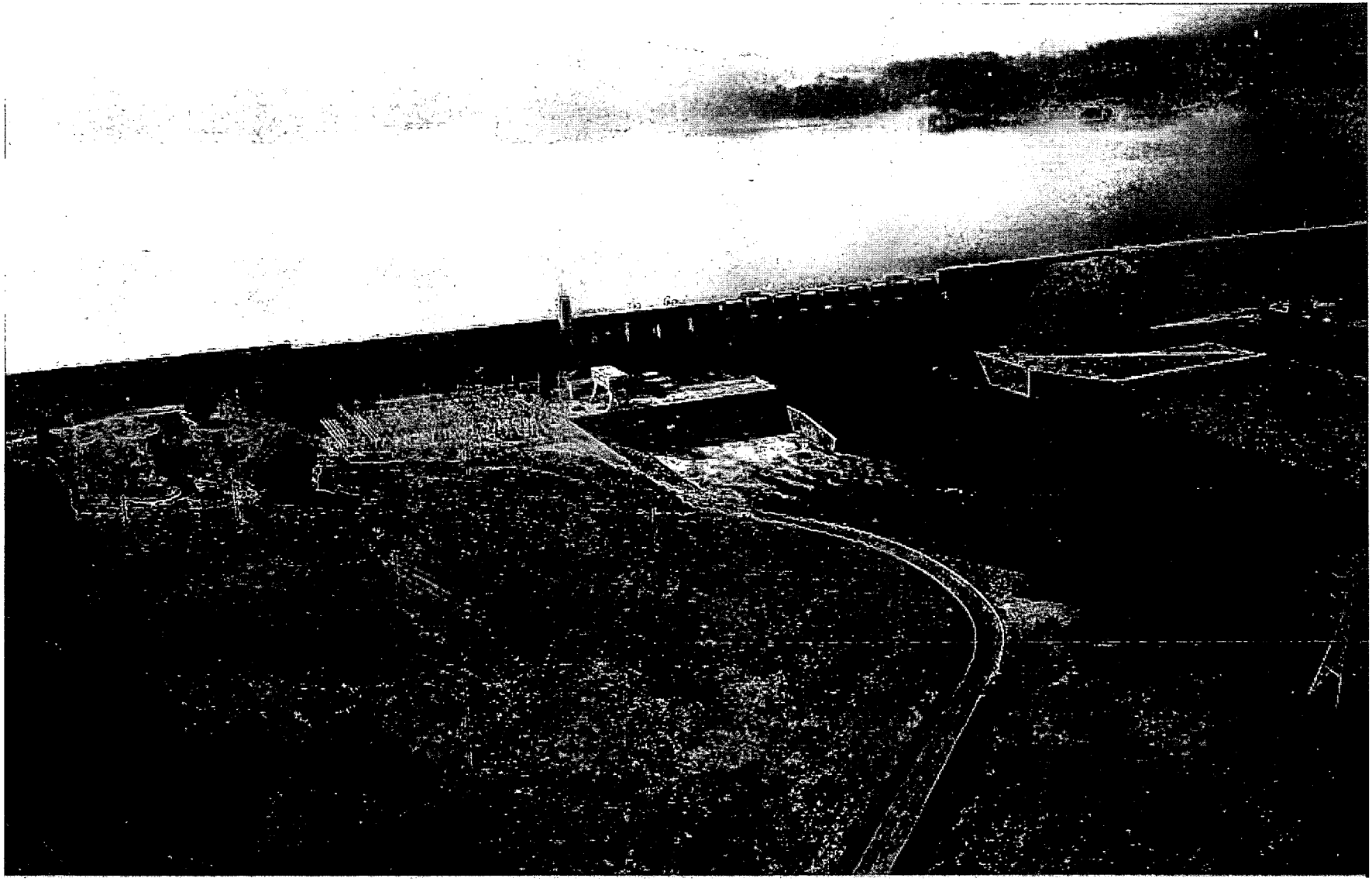
CHEROKEE DAM



JULY 1998

RESERVOIR OPERATION OVERVIEW

Cherokee is a multipurpose tributary project located on the Holston River. It is the largest (by reservoir volume) of several TVA projects located on the Holston River and its tributaries. Like similar large projects located on other major tributaries to the Tennessee River, Cherokee is operated for many purposes including flood control, augmentation of flows for navigation, hydropower production, water quality, recreation, and aquatic ecology. Cherokee Lake has an annual pool level variation of about 40 feet during normal years. This fluctuation is necessary to provide for flood storage and for economical augmentation of flows during the drier seasons of the year.

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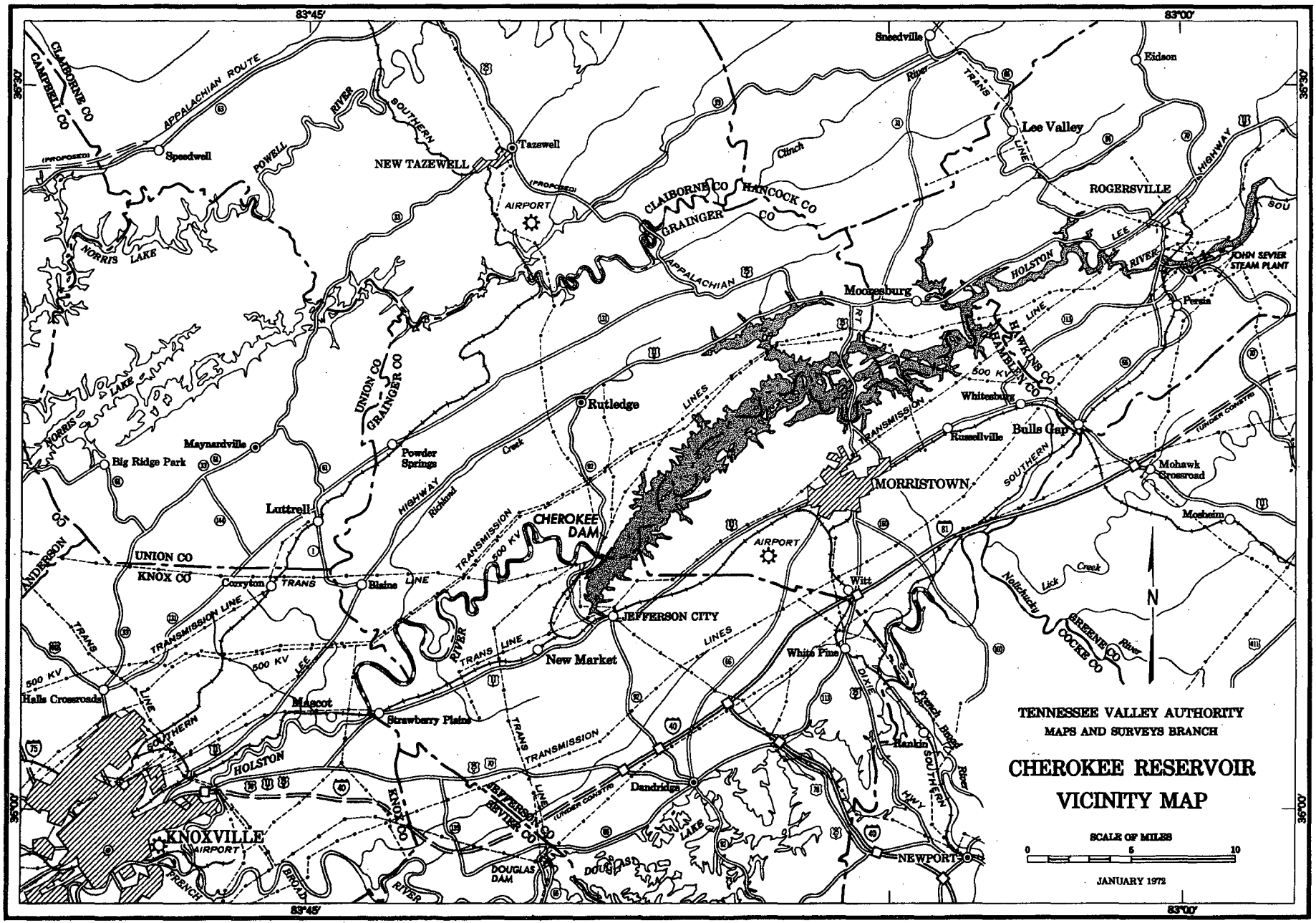

TENNESSEE VALLEY AUTHORITY
MAPS AND SURVEYS BRANCH
CHEROKEE RESERVOIR
VICINITY MAP
SCALE OF MILES
0 5 10
JANUARY 1972
83°45'
83°00'
36°30'
36°00'
Speedwell
Tazewell
NEW TAZEWELL
Sneedville
Eidson
Lee Valley
ROGERSVILLE
JOHN SEVIER STEAM PLANT
Persia
Mooresburg
Whitesburg
Russellville
Bulls Gap
MORRISTOWN
Mohawk Crossroad
Mosheim
Rutledge
Maynardville
Big Ridge Park
Powder Springs
Luttrell
CHEROKEE DAM
JEFFERSON CITY
New Market
Strawberry Plains
Mascot
Corryton
Blaine
Halls Crossroads
KNOXVILLE
Witt
White Pine
Rankin
Dandridge
NEWPORT
DOUGLAS DAM
CLAIBORNE CO
HANCOCK CO
GRAINGER CO
UNION CO
KNOX CO
HAMBLEN CO
HAWKINS CO
GREENE CO
COCKE CO
JEFFERSON CO
SEVIER CO
NORRIS LAKE
DOUGLAS LAKE
APPALACHIAN ROUTE
SOUTHERN
HOLSTON
LEE
HIGHWAY
TRANSMISSION LINE
500 KV
TRANS LINE
(PROPOSED)
(UNDER CONSTR)
AIRPORT
N

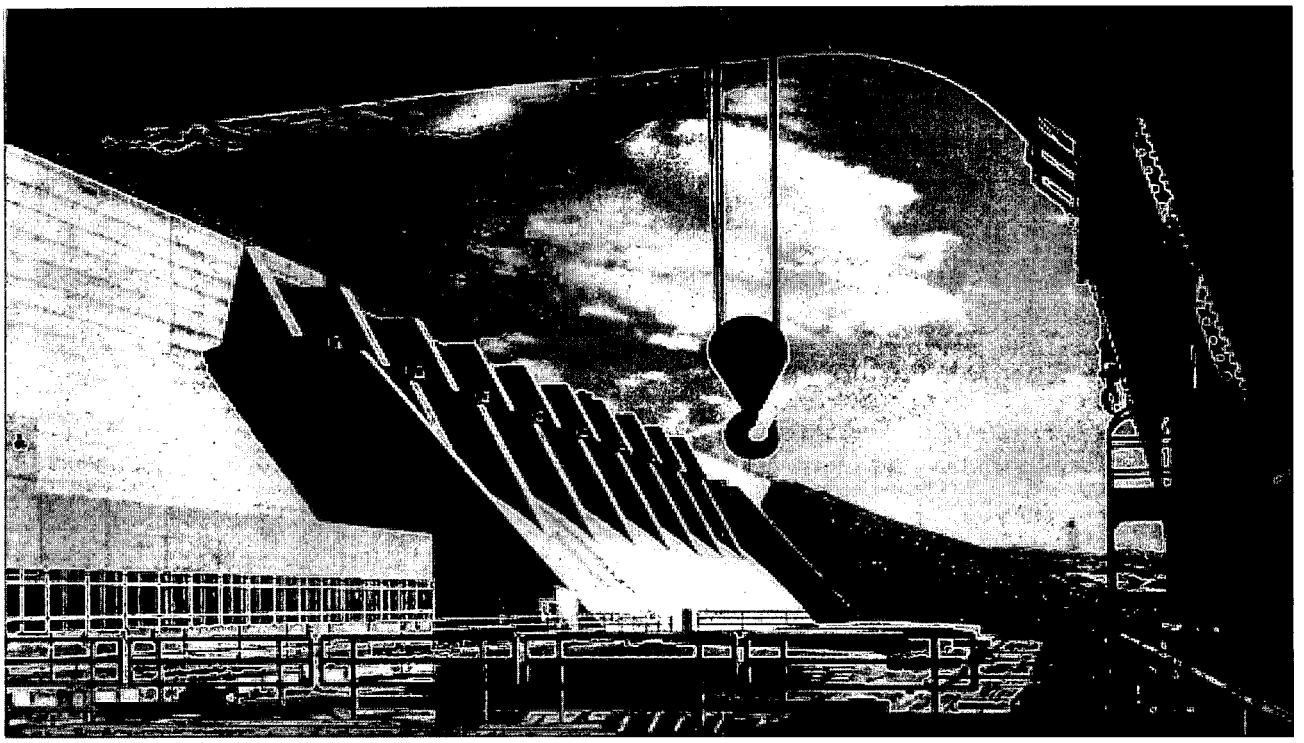


FIGURE 1: View of Spillway, 1941

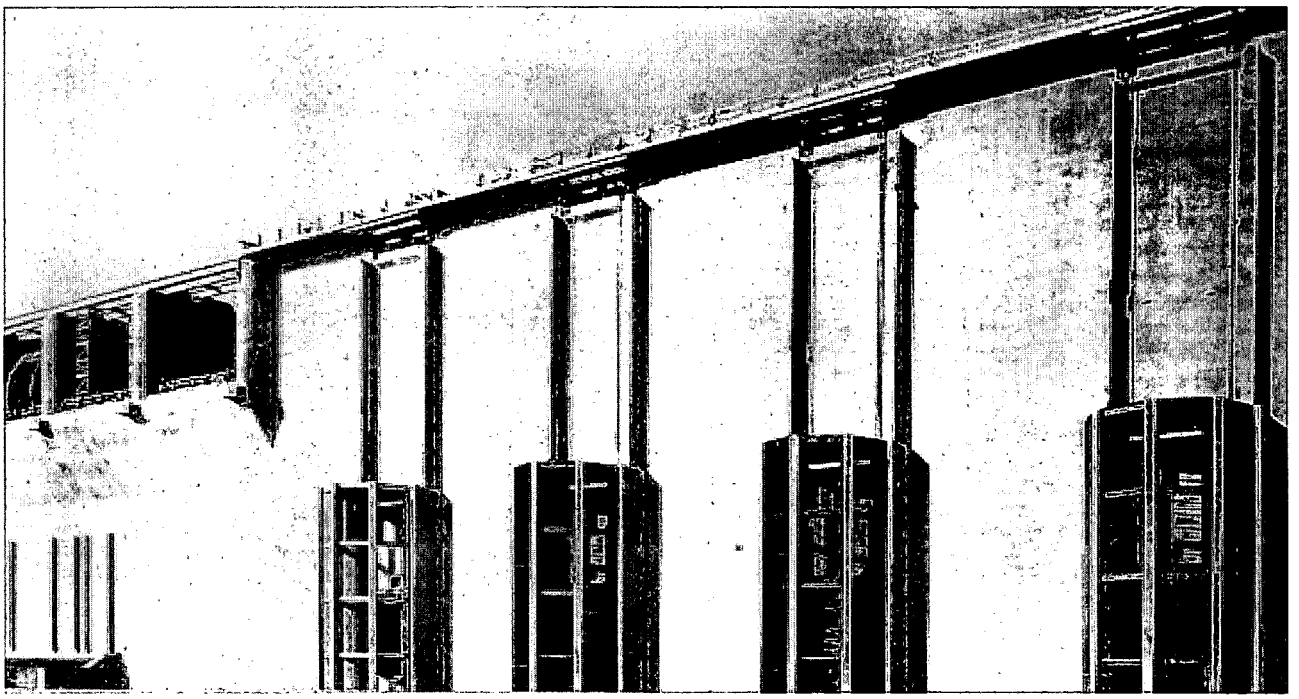
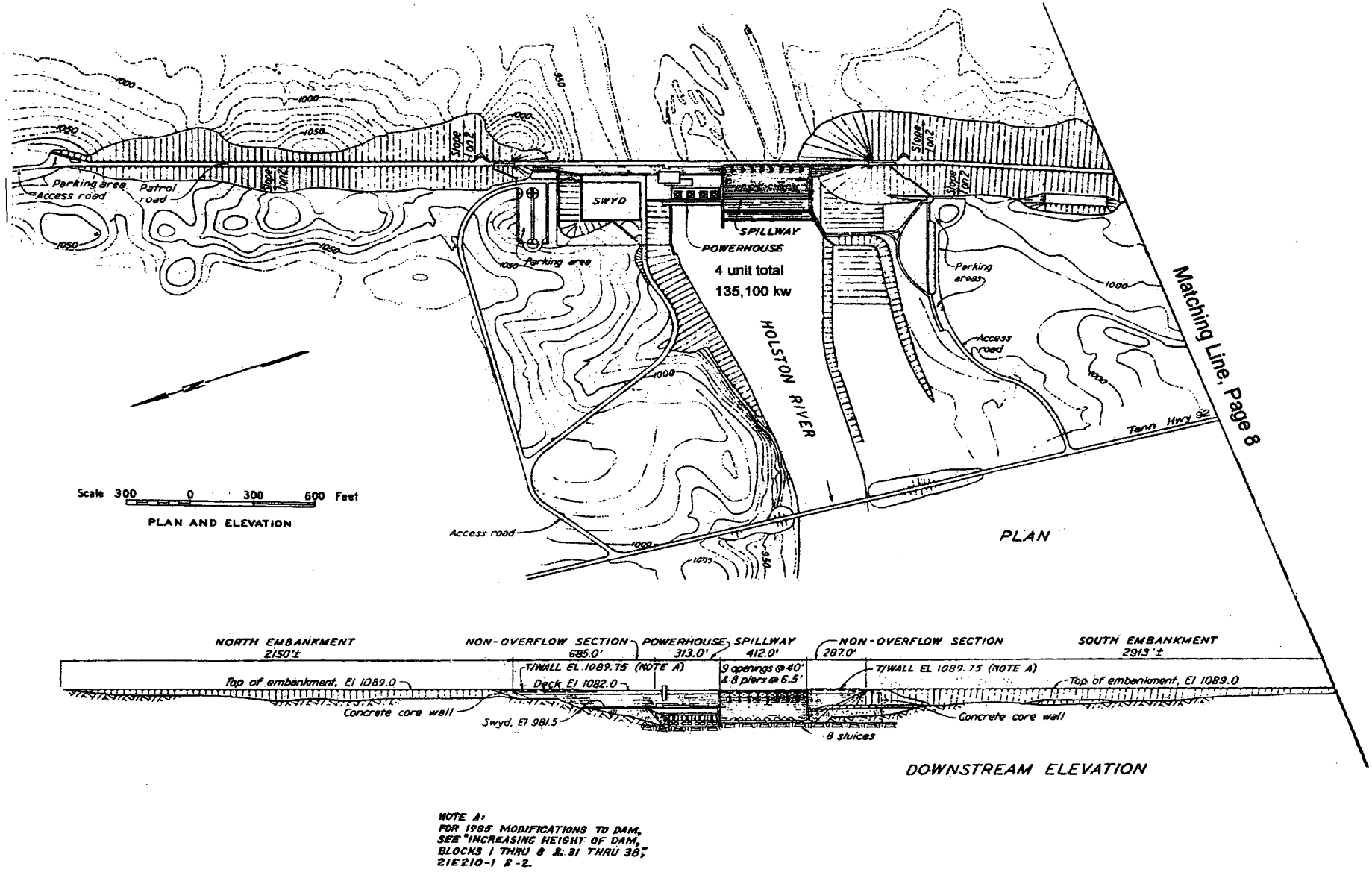
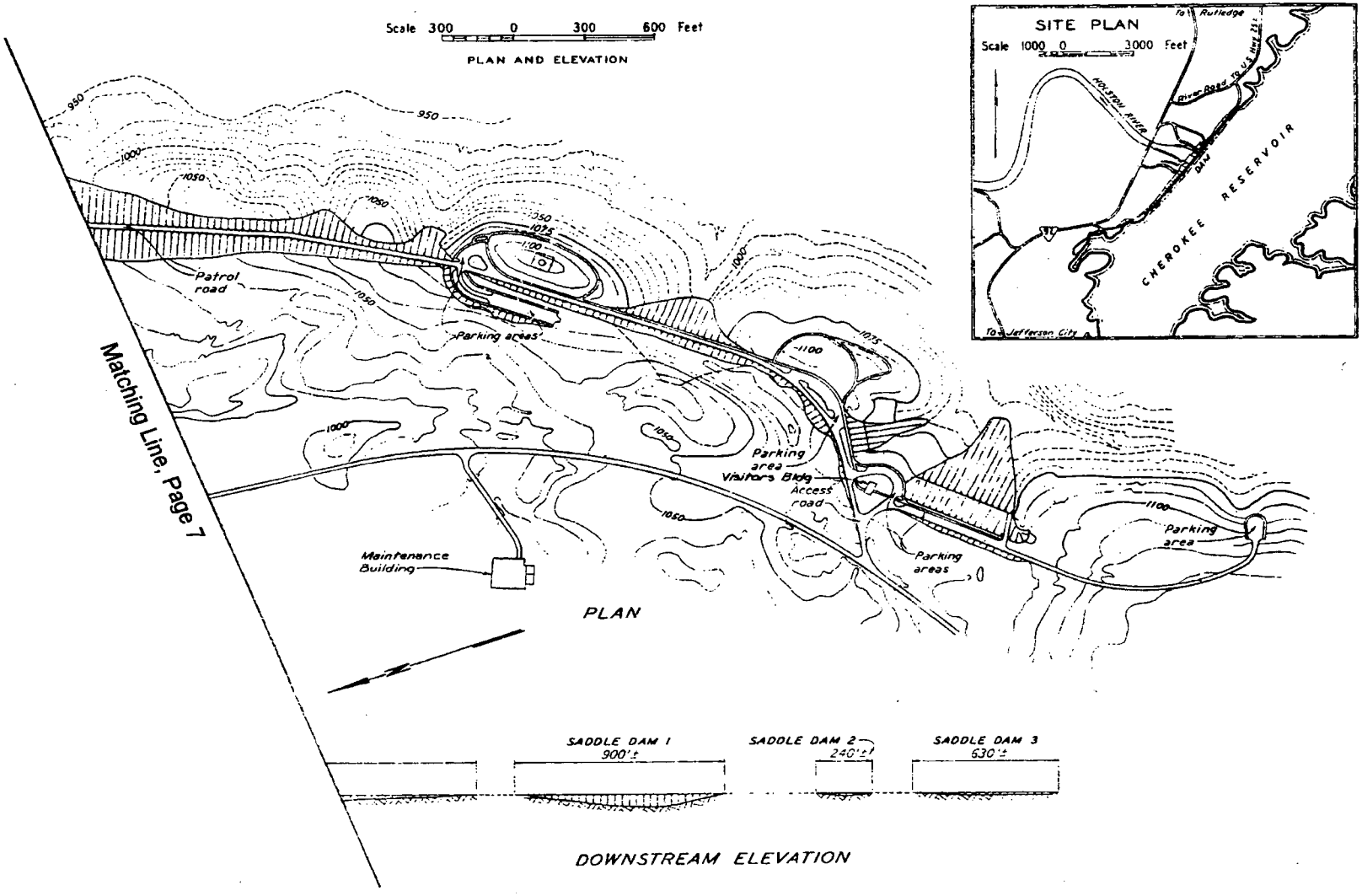


FIGURE 2: Trashracks at penstock entrances, 1941



NOTE A:
FOR 1985 MODIFICATIONS TO DAM, SEE "INCREASING HEIGHT OF DAM, BLOCKS 1 THRU 8 & 31 THRU 38;" 21E210-1 & -2.

FIGURE 3


Scale 300 0 300 600 Feet
PLAN AND ELEVATION
SITE PLAN
Scale 1000 0 3000 Feet
To Rutledge
HOLSTON RIVER
River Road To U.S. Hwy 25E
DAM
CHEROKEE RESERVOIR
To Jefferson City
Matching Line, Page 7
Patrol road
Parking areas
Parking area
Visitors Bldg
Access road
Parking areas
Parking area
Maintenance Building
PLAN
SADDLE DAM 1
900'±
SADDLE DAM 2
240'±
SADDLE DAM 3
630'±
DOWNSTREAM ELEVATION

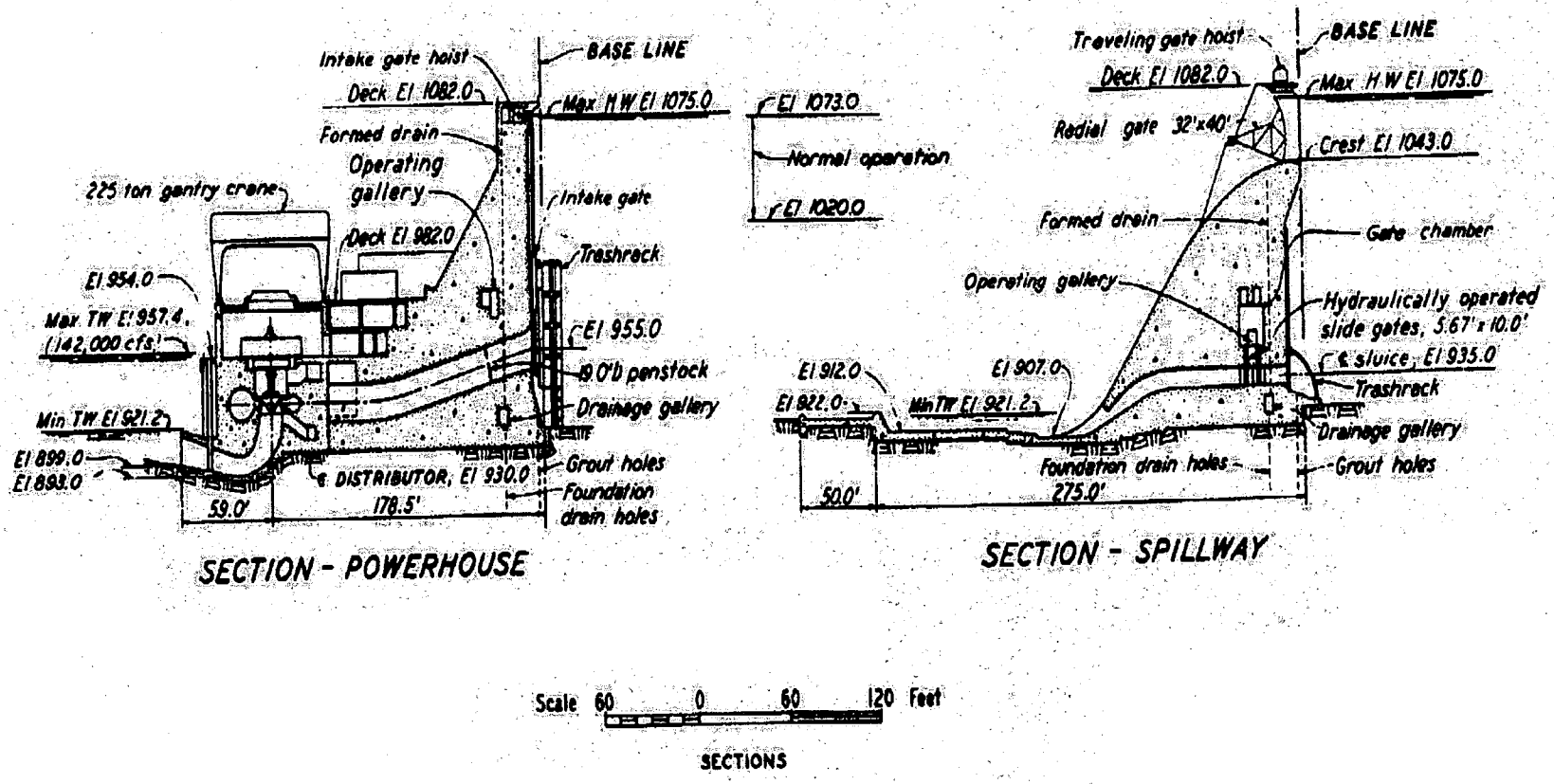
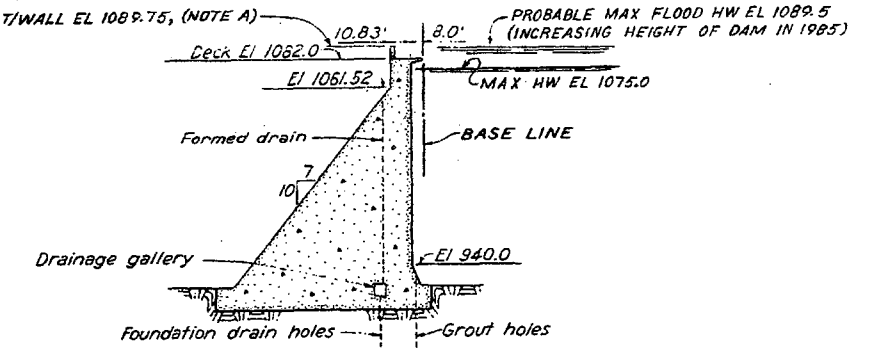
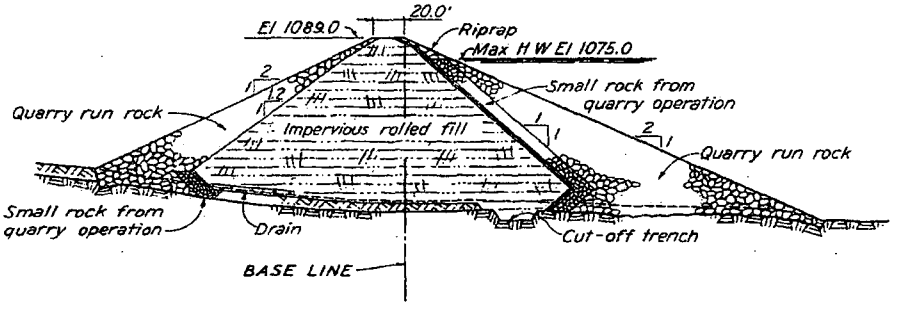

Intake gate hoist
BASE LINE
Deck El 1082.0
Max HW El 1075.0
El 1073.0
Formed drain
Operating gallery
Normal operation
225 ton gantry crane
Intake gate
Deck El 982.0
El 1020.0
Trashrack
El 954.0
Max TW El 957.4 (142,000 cfs)
El 955.0
19.0'b penstock
Drainage gallery
Min TW El 921.2
El 899.0
El 893.0
℄ DISTRIBUTOR, El 930.0
Grout holes
Foundation drain holes
59.0'
178.5'
SECTION - POWERHOUSE
Traveling gate hoist
BASE LINE
Deck El 1082.0
Max HW El 1075.0
Radial gate 32'x40'
Crest El 1043.0
Formed drain
Gate chamber
Operating gallery
Hydraulically operated slide gates, 5.67'x10.0'
℄ sluice, El 935.0
El 912.0
El 907.0
El 922.0
Min TW El 921.2
Trashrack
Drainage gallery
Foundation drain holes
Grout holes
50.0'
275.0'
SECTION - SPILLWAY
Scale 60 0 60 120 Feet
SECTIONS

FIGURE 4



NON-OVERFLOW SECTION

NOTE A:
FOR 1985 MODIFICATIONS TO DAM, SEE "INCREASING HEIGHT OF DAM, BLOCKS 1 THRU 8 & 31 THRU 38", 21E210-1 & -2.



TYPICAL SECTION - EMBANKMENT

Scale 60 0 60 120 Feet

SECTIONS

FIGURE 5

CHEROKEE PROJECT

SUMMARY OF PRINCIPAL FEATURES

LOCATION

On Holston River at river mile 52.3; in Jefferson and Grainger Counties, Tennessee; approximately 1/3 mile upstream from State Highway 92 bridge between Rutledge and Jefferson City; 28 air miles northeast of Knoxville; 33 air miles east of Norris Dam.

NOTE

Elevations are based on the U.S.C. & G.S. 1936 Supplementary Adjustment.

CHRONOLOGY

Initial appropriation by Congress	July 31, 1940
Construction started	August 1, 1940
Authorized by TVA Board of Directors	August 2, 1940
Dam closure	December 5, 1941
First unit (No. 1) in commercial operation	April 16, 1942
Second unit (No. 3) in commercial operation	June 17, 1942
Installation of third unit (No. 2) started	October 4, 1950
Installation of fourth unit (No. 4) started	January 18, 1951
Third unit (No. 2) in commercial operation	January 29, 1953
Fourth unit (No. 4) in commercial operation	October 7, 1953
Safety Modifications for Probable Maximum Flood Construction completed	April 1985
Reservoir Release Improvements - completed	July 1995

PROJECT COST

Initial project, including 2 units (1 and 3)	$30,300,020
Additional units 2 and 4	5,509,946
Safety Modifications for Probable Maximum Flood	395,000
Reservoir Release Improvements	5,000,000
Total, including switchyard	$41,204,966

STREAMFLOW

Drainage area at dam:

Total	3,428 sq. miles
Uncontrolled (below Fort Patrick Henry Dam)	1,525 sq. miles

STREAMFLOW (Continued)

Gaging station discharge records
- At Strawberry Plains, Tennessee, October 1930 to September 1948; drainage area ..... 3,626 sq. miles
- Near Jefferson City, Tennessee, October 1936 to date; drainage area ..... 3,429 sq. miles
- Near Morristown, Tennessee, April 1937 to November 1941; drainage area ..... 3,244 sq. miles
- Near Rogersville, Tennessee, October 1901 to May 1942; drainage area ..... 3,035 sq. miles
- At John Sevier Steam Plant, Tennessee, June 1954 to October 1955; drainage area ..... 3,008 sq. miles
- At Surgoinsville, Tennessee, October 1940 to date; drainage area ..... 2,874 sq. miles

Maximum natural flood at dam site:
- estimated (1867) ..... 158,000 cfs

Maximum regulated discharge since closure of dam:
- (Feb, 1957) ..... 25,875 cfs

Average unregulated flow at dam site:
- estimated (1903-1998) ..... 4,500 cfs

Minimum daily natural flow at dam site:
- (1925), approx. ..... 530 cfs

RESERVOIR

Counties affected:
- State of Tennessee. ..... Jefferson, Grainger, Hamblen, Hawkins

Reservoir land at April 1999:
- Fee simple ..... 35,825 ac.
- Easements ..... 1,021 ac.
- Total ..... 36,846 ac.
- Transferred ..... 1,068 ac.

Operating levels at dam:
- Probable maximum flood elevation (PMF) ..... *el. 1089.4
- 500 year flood elevation ..... *el. 1075.0
- 100 year flood elevation ..... *el. 1075.0
- Winter flood guide level ..... el. 1030.0
- Summer flood guide level ..... el. 1070.0
- Maximum used for design (300,000 cfs) ..... el. 1075.0
- Top of gates (area 31,240 ac.) ..... el. 1075.0
- Normal minimum pool (area 12,360 ac.) ..... el. 1020.0

Backwater, length to John Sevier Dam ..... 54 miles

RESERVOIR (Continued)

Shoreline, length at normal maximum pool level:
- Main shore ..... 331 miles
- Islands ..... 62 miles
- Total ..... 393 miles

Original river area (to el. 1073 crossing) ..... 2,426 ac.
Storage (flat pool assumption):
- Total volume:
  - At top of gates (el. 1075)..... 1,541,000 ac.-ft
  - At normal minimum pool (el. 1020)..... 393,000 ac.-ft
- Reservation for flood control on:
  - January 1 to February 3 (el. 1075-1030).. 1,011,000 ac.-ft
  - March 15 (el. 1075-1042)..... 809,000 ac.-ft
  - June 1 (el. 1075-1071)..... 118,000 ac.-ft
- Useful controlled storage
  - (el. 1075-1020)..... 1,148,000 ac.-ft

**These elevations are valid at the dam and may change significantly upstream of the dam.*

TAILWATER

Maximum used for design (300,000 cfs) ..... el. 978
Maximum known flood (1867) ..... el. 960
Full plant operating (4 units) ..... el. 928.2
One unit operating at best efficiency ..... el. 923.4
Minimum level ..... el. 921.2

HEAD (Gross)

Maximum static (el. 1075-920.9) ..... 154.1 ft
Average operating ..... 121 ft
Minimum operating (el. 980-928) ..... 52 ft

RESERVOIR ADJUSTMENTS

Clearing ..... 5,887 ac.
Highways:
- Access ..... 0.8 mile
- State ..... 30.0 miles
- County and tertiary ..... 69.8 miles
- Total ..... 100.6 miles

RESERVOIR ADJUSTMENTS (Continued)

Railroads:	
Access	4.8 miles
Sidings	3.1 miles
Other	1.4 miles
Total	9.3 miles
Bridges (highway, 19; railroad, 2)	21
Concrete box culverts	145
Families relocated	875
Graves	366 agreements; 1,827 removals
Utility line adjustments	126.5 miles

DAMS

MAIN DAM

Material and type	Concrete gravity nonoverflow dam and spillway; rockfill and impervious rolled earthfill embankments
Lengths:	
Nonoverflow dam	972 ft
Spillway	412 ft
Powerhouse intake	313 ft
Earth embankment:	
Left (south) bank	2,913 ft
Right (north) bank	2,150 ft
Total	6,760 ft
Maximum height, foundation to deck level	175 ft
Maximum width at base:	
Spillway section only	127 ft
Including apron	313 ft
Deck level	el. 1082.0
Top of earth embankments	el. 1089.0
Outlet facilities:	
Spillway clear opening (9 openings at 40 ft)	360 ft
Spillway crest level	el. 1043.0
Crest gates	9 radial gates, 40 ft wide, 32 ft high, separated by 6.5-ft-thick piers
Traveling hoists	Two 60-ton hoists
Sluices	Eight, 5 ft 8 in. wide, 10 ft high
Centerline of sluices	el. 935.0
Sluice gates	8 sets of two 5-ft-8-in. by 10-ft hydraulically operated slide gates

DAMS (Continued)

Discharge capacity:
Spillway, HW el. 1075 (top of gates) ..... 256,000 cfs
Sluices, HW el. 1075 ..... 30,000 cfs
Service road ..... 17.5 ft wide, each side of spillway
Foundation ..... Nolichucky shale

SADDLE DAMS

Location ..... Left rim, just beyond left (south) embankment
Material and type:
Dam No. 1 ..... Impervious rolled earthfill embankment with rockfill shoulder on upstream side
Dams Nos. 2 and 3. ..... Impervious rolled earthfill embankment

Dam No.	1	2	3
Length, feet	900	240	630
Maximum height, feet	85	15	30
Top width, feet	30	32	60
Top of embankments	-	-	el. 1090.0
Roadway width	-	-	20 ft
Foundations	-	-	Earth

POWER FACILITIES

INTAKES

Number 4
Dimensions of one rack opening ..... 14 ft 8 in. by 24 ft 4 in.
Gross area at rack (total per unit) ..... 1,780 sq. ft
Gates ..... Four 19-ft-wide by 26-ft-high structural steel gates with roller trains
Hoist ..... Four 60-ton stationary chain hoists

PENSTOCKS

Number 4
Type ..... Riveted steel lined
Diameter ..... 19 ft
Length ..... 137 ft
Air vents ..... One 30-in.-dia. for each penstock

POWER FACILITIES (Continued)

POWERHOUSE

Generating capacity, 4-unit total ..... 135,100 kW
Type of construction ..... Semioutdoor, reinforced concrete and structural steel
Principal dimensions, including service bay. ..... 313 ft long by 95 ft wide by 92 ft high
Service bay ..... 55 ft long by 134 ft wide
Draft tubes:
Type ..... Elbow, 2 openings
Horizontal length (centerline of turbine to downstream face) ..... 59 ft
Vertical distance from distributor centerline to draft tube floor ..... 37.0 ft
Net area of outlet opening, per unit ..... 592.5 sq. ft
Gates ..... One set of 2 structural steel slide gates, 20.33 ft clear opening by 13.42 ft high
Crane ..... 25-ton jib crane on powerhouse gantry
Erecting crane ..... 225-ton gantry, two 112-1/2-ton main hooks, two 25-ton auxiliary hooks, and one 25-ton jib crane

HYDRAULIC TURBINES

Number 4
Manufacturer ..... S. Morgan Smith Co. (now Allis-Chalmers Manufacturing Co.)
Type ..... Vertical Francis
Rated capacity (each) ..... 41,500 hp at 100-ft net head
Rated speed ..... 94.7 r/min
Maximum runaway speed ..... 189 r/min
Specific speed at rating 61
Value of sigma at rating 0.27
Diameter of runner, intake ..... 165 in.
Diameter of runner, discharge ..... 177 in.
Centerline to bottom of runner ..... 61 in.
Centerline to top of runner ..... 28.437 in.
Diameter of guide vane circle ..... 202 in.
Diameter of lower pit ..... 19.0 ft
Spacing of turbines, center to center of units ..... 61 ft
Governors ..... Woodward, cabinet actuator type
Weight of rotating parts ..... 175,000 lb

POWER FACILITIES (Continued)

GENERATORS

Number 4
Manufacturer ..... General Electric Co.
Type ..... Enclosed, water-cooled, vertical-shaft
Rating:
Units 1 thru 4 (original rating) ... 33,333 kVA, 30,000 kW, 1393 A,60 degrees C rise, 0.9 pf,13.8 kV,3 ph,60 Hz
Capacity:
Units 1 thru 4 (original capacity) .. 38,333 kVA, 34,500 kW, 1602 A,80 degrees C rise
Unit 1 rewound and rerated:
June 10, 1976 ..... 37,200 kVA, 33,480 kW, 1556 A,60 degrees C rise, 0.9 pf,13.8 kV,3 ph,60 Hz
Unit 4 rewound and rerated:
December 10, 1977 ..... 36,000 kVA, 32,400 kW, 1506 A,60 degrees C rise, 0.9 pf,13.8 kV,3 ph,60 Hz

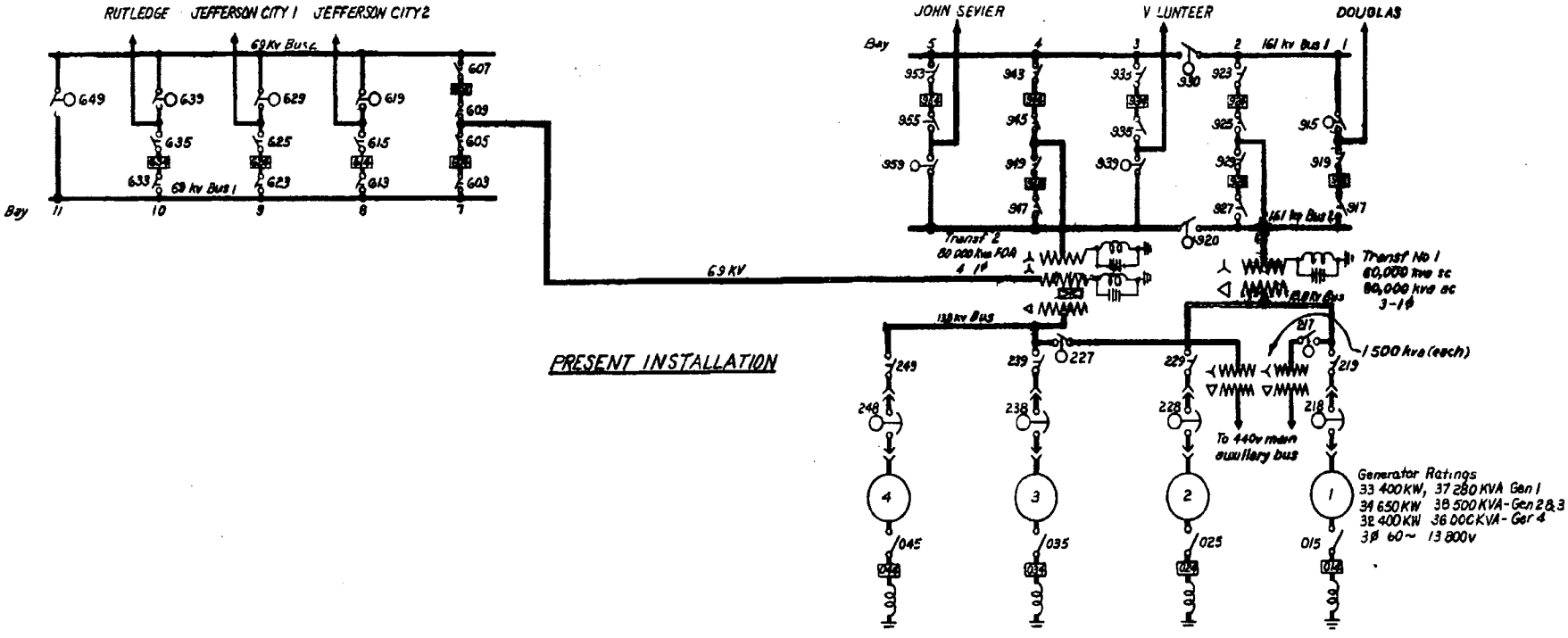
Note: Units 2 and 3 rewound and rerated June 1, 1975, and December 1, 1974, respectively.
Rating:
Units 2 and 3 ..... 38,500 kVA, 34,650 kW, 1611 A,60 degrees C rise, 0.9 pf,13.8 kV,3 ph,60 Hz
Efficiency (guaranteed original values):
At rated kVA, 1.0 pf ..... 97.55 percent
At 75% kVA, 0.9 pf ..... 97.00 percent
Flywheel effect .....45,000,000 lb-ft^2
Thrust bearing:
Units 1, 3 ..... Kingsbury, dia. 89 in., max. load 436 tons
Units 2, 4 ..... General Electric, dia. 75.5 in., max. load 414 tons
Neutral reactor ..... 1.0 ohm, 4000 A, 1 min
Exciters:
Main ..... 220 kW, 250 V
Pilot ..... 17 kW, 250 V
Weight of heaviest crane lift, rotor:
Units 1, 3 ..... 185 tons
Units 2, 4 ..... 176 tons
Diameter over housing, less trim ..... 460 in.
Top of pilot exciter:
Above stator soleplates ..... 175.25 in.
Above generator floor ..... 165.25 in.

GENERATOR & TURBINE MODERNIZATION

This project, scheduled to start in May 2003 and complete in September 2006, will modernize the power train and involves replacing the runners, rewinding the generators, adding generator protection, fans, and baffles, reinsulating rotor poles, and adding transformer protection. Principal components to be rehabilitated are the discharge ring, switchgear, main transformer, and wicket gates.

FIGURE 6

Single Line Diagram of Main Connections



POWER FACILITIES (CONT.)

ELECTRIC CONTROLS

Generation and switching are normally controlled from the volunteer substation ADCC by means of supervisory equipment. Pertinent data such as electrical quantities, water levels, etc., and the annunciation of ADCC equipment conditions and operation are telemetered to the volunteer substation also. Controls for local operation are provided in the Cherokee control room.

TRANSMISSION PLANT

Step-up transformers: See Transmission Plant Data (Page 16).

Intersystem transformers: See Transmission Plant Data (Page 16).

161-kV circuit breakers:

3	1200-A,	5.0 MVA,	8/60-Hz,	sol,	General Electric
1	1200-A,	10.0 MVA,	5/20-Hz,	pneu,	General Electric
2	1200-A,	10.0 MVA,	5/20-Hz,	pneu,	Westinghouse
2	1200-A,	40.0 MVA,	3/20-Hz,	pneu,	Asea Brown Boveri (ABB)

69-kV circuit breakers:

3	600-A,	1.0 MVA,	8/30-Hz,	pneu,	Allis-Chalmers
2	1200-A,	1.5 MVA,	5/20-Hz,	pneu,	Allis-Chalmers

Structures:

6	161-kV switchyard bays, 38 ft wide
5	69-kV switchyard bays, 26 ft wide
2	transformer banks

TRANSMISSION PLANT DATA

Plant	Location	Phase	Serial Number	MVA Rating		Voltage kV	Cooling	Tap Changer	Oil Preservation System	Oil Volume Gal.	Configuration	Impedance %			Contract Number	Mfg	Yr of Manf.
				55 deg	65 deg							H-X	H-Y	X-Y			
Cherokee Hydro	Bank 1	A	6622190	20/26.667	N/A	161/13.2	OA/FA	DETC	Gas-Blanketed	8600	Wye/Delta	10.84	N/A	N/A	TV-55115	GE	1941
Cherokee Hydro	Bank 1	B	6622191	20/26.667	N/A	161/13.2	OA/FA	DETC	Gas-Blanketed	8600	Wye/Delta	10.91	N/A	N/A	TV-55115	GE	1941
Cherokee Hydro	Bank 1	C	6622192	20/26.667	N/A	161/13.2	OA/FA	DETC	Gas-Blanketed	8600	Wye/Delta	10.88	N/A	N/A	TV-55115	GE	1941
Cherokee Hydro	Bank 2	A	B529516	26.667	N/A	161/69/13.2	FOA	DETC & OLTC	Gas-Blanketed	9394	Wye/Wye/Delta	14.02	14.13	6.30	C-51-12640	GE	1952
Cherokee Hydro	Bank 2	B	B529517	26.667	N/A	161/69/13.2	FOA	DETC & OLTC	Gas-Blanketed	9394	Wye/Wye/Delta	13.98	14.05	6.39	C-51-12640	GE	1952
Cherokee Hydro	Bank 2	C	B529518	26.667	N/A	161/69/13.2	FOA	DETC & OLTC	Gas-Blanketed	9394	Wye/Wye/Delta	14.05	14.16	6.22	C-51-12640	GE	1952
Cherokee Hydro	Bank 2	Spare	B529519	26.667	N/A	161/69/13.2	FOA	DETC & OLTC	Gas-Blanketed	9394	Wye/Wye/Delta	14.02	14.11	6.39	C-51-12640	GE	1952

Note: H=High voltage winding
Y=Tertiary winding
X=Low voltage winding

RESERVOIR AND POWER DATA - CHEROKEE

					BEST EFFICIENCY			MAXIMUM SUSTAINABLE		
Pool Elevation (feet)	Area (acre *1000)	Volume (ac-ft *1000)	Potential EIS* (gWh)	Gross Head (feet)	Plant Output (MW)	Turbine Discharge (cfs)	kW/cfs	Plant Output (MW)	Turbine Discharge (cfs)	kW/cfs
1075	30.29	1541.0	751.6	146.4	138.8	13,120	10.58	144.9	14,550	9.96
1074	29.90	1510.9	735.1	145.4	139.0	13,220	10.52	144.9	14,620	9.91
1073	29.52	1481.2	718.9	144.4	139.2	13,320	10.46	144.9	14,690	9.87
1072	29.15	1451.8	702.9	143.3	139.4	13,410	10.40	144.9	14,770	9.82
1071	28.78	1422.9	687.2	142.3	139.6	13,510	10.34	145.0	14,840	9.77
1070	28.41	1394.3	671.7	141.3	139.8	13,600	10.28	145.0	14,910	9.73
1069	28.04	1366.1	656.4	140.3	140.0	13,700	10.22	145.0	14,980	9.68
1068	27.68	1338.2	641.3	139.2	140.1	13,790	10.16	145.0	15,060	9.63
1067	27.32	1310.7	626.3	138.2	140.1	13,880	10.10	145.0	15,140	9.58
1066	26.97	1283.6	611.6	137.2	140.1	13,980	10.03	144.9	15,220	9.53
1065	26.62	1256.8	597.2	136.2	140.1	14,070	9.97	144.9	15,310	9.48
1064	26.27	1230.3	582.9	135.1	140.1	14,160	9.90	144.9	15,390	9.42
1063	25.92	1204.2	568.9	134.1	140.1	14,250	9.84	144.9	15,470	9.37
1062	25.58	1178.5	555.0	133.1	140.1	14,340	9.78	144.9	15,550	9.32
1061	25.25	1153.1	541.4	132.1	140.1	14,430	9.71	144.8	15,630	9.27
1060	24.91	1128.0	528.0	131.0	140.1	14,520	9.65	144.8	15,720	9.22
1059	24.58	1103.2	514.7	130.0	140.1	14,610	9.58	144.8	15,800	9.17
1058	24.25	1078.8	501.7	129.0	139.9	14,690	9.52	144.8	15,920	9.10
1057	23.92	1054.7	488.8	127.9	139.7	14,770	9.46	144.9	16,050	9.04
1056	23.59	1031.0	476.1	126.9	139.5	14,850	9.40	144.9	16,170	8.97
1055	23.25	1007.6	463.6	125.9	139.3	14,920	9.34	145.0	16,300	8.91
1054	22.92	984.5	451.4	124.8	139.1	15,000	9.28	145.0	16,420	8.84
1053	22.59	961.7	439.3	123.8	138.9	15,080	9.22	145.0	16,550	8.78
1052	22.26	939.3	427.5	122.7	138.7	15,160	9.16	145.1	16,670	8.71
1051	21.93	917.2	415.8	121.7	138.5	15,230	9.10	145.1	16,800	8.65
1050	21.60	895.4	404.3	120.7	138.3	15,310	9.04	145.2	16,920	8.58
1049	21.27	874.0	393.0	119.6	138.1	15,380	8.98	145.2	17,060	8.51
1048	20.94	852.9	381.9	118.6	137.8	15,440	8.93	145.3	17,230	8.43
1047	20.61	832.1	371.0	117.5	137.6	15,500	8.88	145.3	17,400	8.36
1046	20.28	811.7	360.3	116.5	137.3	15,560	8.82	145.3	17,560	8.28
1045	19.94	791.6	349.8	115.4	137.0	15,620	8.77	145.4	17,730	8.20
1044	19.61	771.8	339.5	114.4	135.8	15,600	8.71	144.1	17,740	8.12
1043	19.28	752.4	329.3	113.5	134.0	15,520	8.63	141.9	17,650	8.04
1042	18.95	733.2	319.3	112.5	132.3	15,450	8.56	139.7	17,550	7.96
1041	18.62	714.4	309.4	111.5	130.5	15,370	8.49	137.5	17,450	7.88
1040	18.29	696.0	299.8	110.5	128.7	15,290	8.42	135.3	17,350	7.79
1039	17.96	677.9	290.4	109.6	126.7	15,200	8.34	133.2	17,250	7.72
1038	17.64	660.1	281.2	108.6	124.5	15,080	8.25	131.2	17,140	7.65
1037	17.31	642.6	272.1	107.6	122.3	14,960	8.17	129.1	17,030	7.57
1036	16.99	625.4	263.2	106.7	120.1	14,830	8.08	127.1	16,920	7.50
1035	16.67	608.6	254.6	105.7	117.9	14,710	8.00	125.1	16,810	7.43
1034	16.36	592.1	246.1	104.7	115.8	14,590	7.91	123.0	16,690	7.36
1033	16.04	575.9	237.8	103.8	113.6	14,470	7.83	121.0	16,580	7.28
1032	15.73	560.0	229.7	102.8	111.4	14,350	7.75	119.0	16,470	7.21

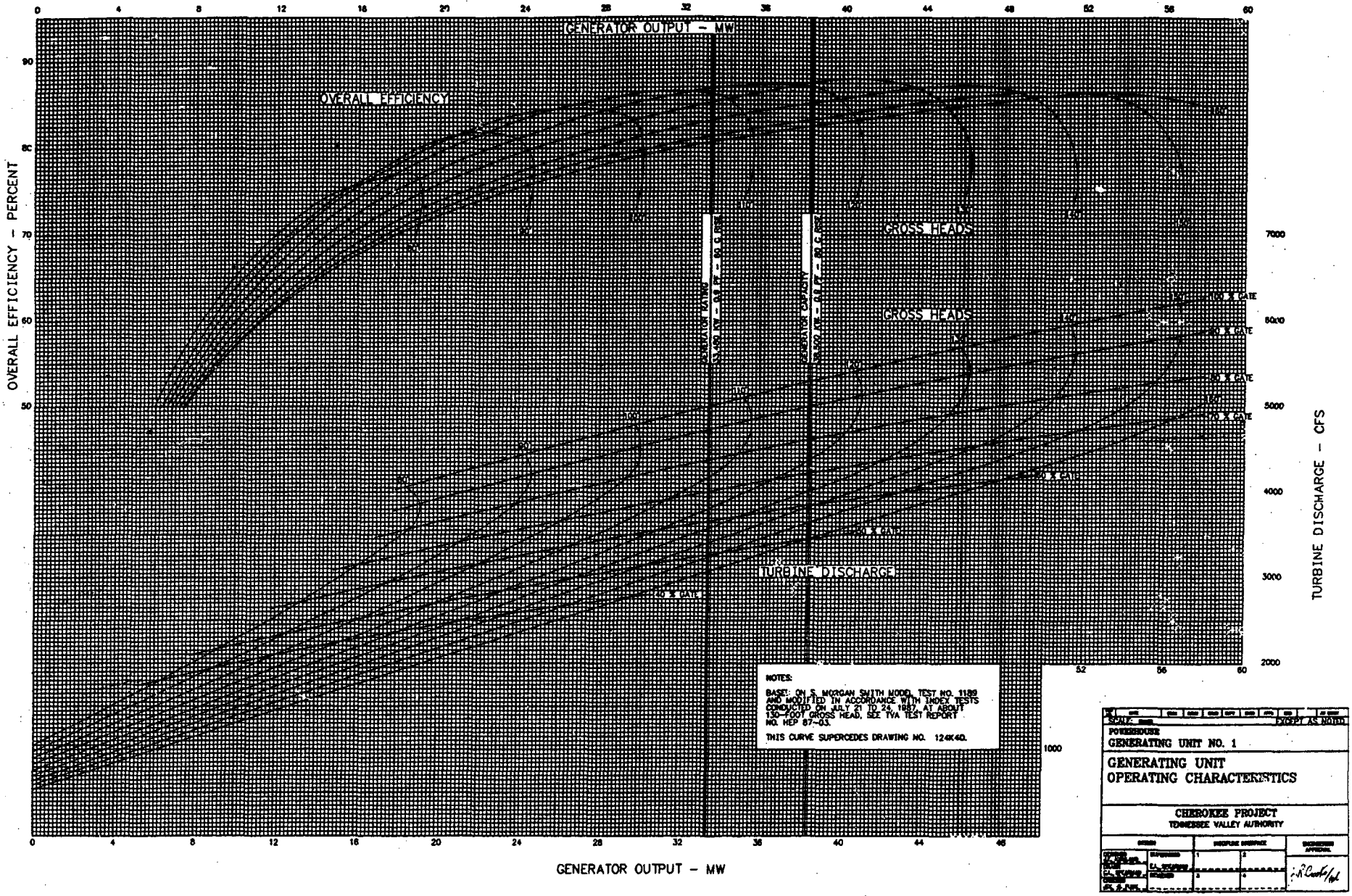
** EIS represents energy in storage, and includes production at Cherokee and all downstream plants through Kentucky Dam.*

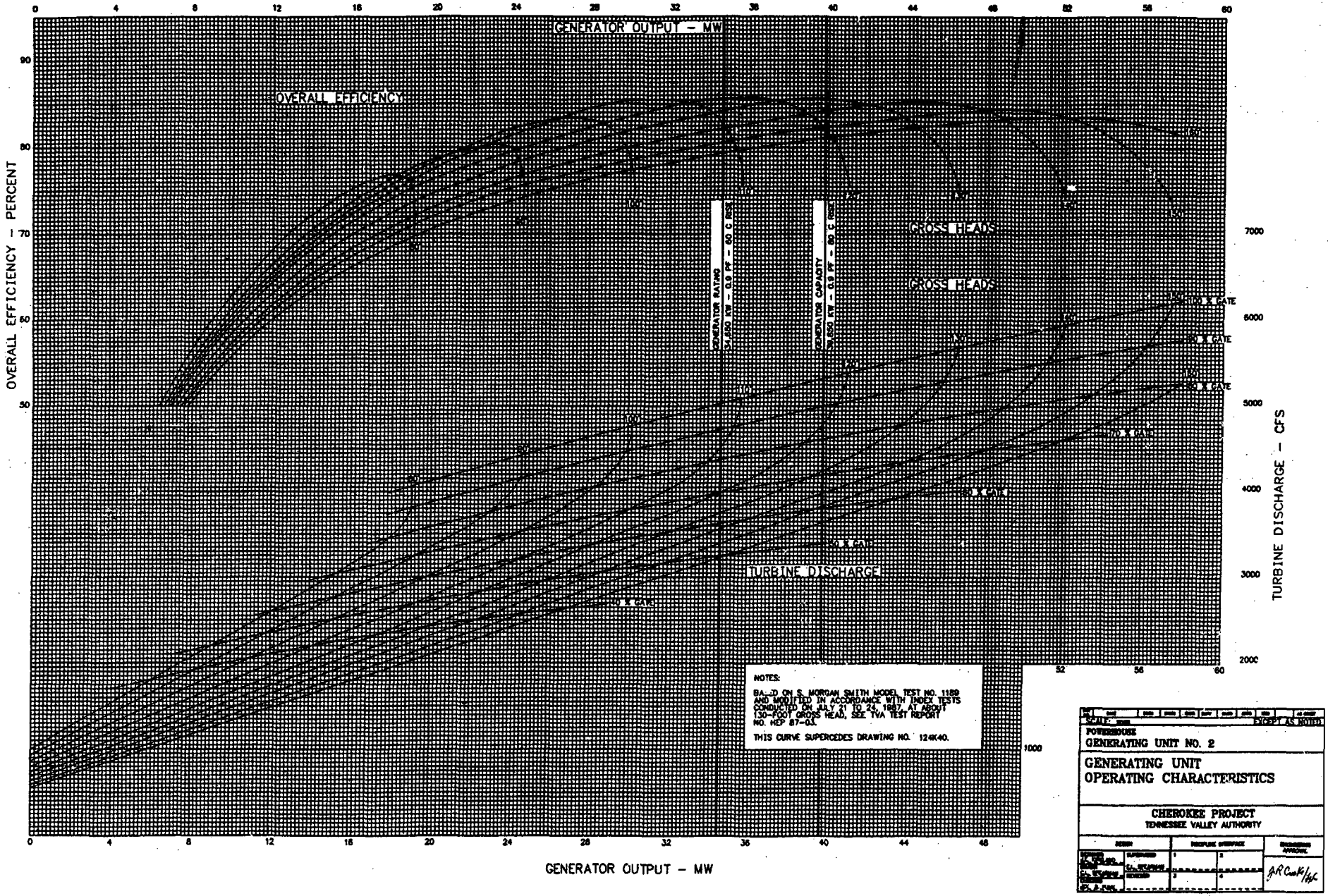
Pool Elevation (feet)	Area (acre *1000)	Volume (ac-ft *1000)	Potential EIS* (gWh)	Gross Head (feet)	BEST EFFICIENCY Plant Output (MW)	BEST EFFICIENCY Turbine Discharge (cfs)	BEST EFFICIENCY kW/cfs	MAXIMUM SUSTAINABLE Plant Output (MW)	MAXIMUM SUSTAINABLE Turbine Discharge (cfs)	MAXIMUM SUSTAINABLE kW/cfs
1031	15.42	544.4	221.7	101.8	109.2	14,230	7.66	117.0	16,360	7.14
1030	15.11	529.2	213.9	100.9	107.0	14,110	7.58	114.9	16,250	7.07
1029	14.81	514.2	206.4	99.9	104.8	13,990	7.49	112.9	16,140	6.99
1028	14.50	499.6	198.9	98.9	102.9	13,890	7.40	110.8	16,010	6.91
1027	14.20	485.2	191.6	98.0	101.0	13,800	7.31	108.7	15,880	6.83
1026	13.90	471.1	184.5	97.0	99.1	13,700	7.22	106.6	15,750	6.75
1025	13.61	457.4	177.6	96.1	97.1	13,610	7.12	104.5	15,620	6.67
1024	13.31	443.9	170.8	95.1	95.2	13,510	7.03	102.4	15,490	6.59
1023	13.02	430.8	164.2	94.2	93.3	13,420	6.94	100.3	15,360	6.51
1022	12.73	417.9	157.8	93.2	91.4	13,320	6.85	98.3	15,230	6.43
1021	12.45	405.3	151.5	92.2	89.5	13,220	6.76	96.2	15,100	6.35
1020	12.16	393.0	145.4	91.3	87.5	13,130	6.66	94.1	14,970	6.27
1019	11.88	381.0	139.4	90.3	85.6	13,030	6.57	92.0	14,840	6.19
1018	11.61	369.2	133.6	89.4	83.7	12,940	6.47	89.9	14,690	6.11
1017	11.34	357.8	127.9	88.4	81.8	12,840	6.36	87.9	14,530	6.03
1016	11.07	346.6	122.4	87.5	79.9	12,750	6.26	85.9	14,370	5.96
1015	10.82	335.6	117.0	86.5	78.0	12,650	6.15	83.9	14,210	5.88
1014	10.56	324.9	111.8	85.6	76.2	12,560	6.04	81.8	14,050	5.80
1013	10.32	314.5	106.7	84.6	74.3	12,460	5.94	79.8	13,890	5.72
1012	10.07	304.3	101.7	83.7	72.4	12,370	5.83	77.8	13,730	5.64
1011	9.84	294.3	96.9	82.7	70.5	12,270	5.72	75.8	13,570	5.56
1010	9.61	284.6	92.2	81.8	68.6	12,180	5.62	73.7	13,400	5.48
1009	9.38	275.1	87.6	80.8	66.7	12,080	5.51	71.7	13,240	5.40
1008	9.16	265.8	83.2	79.9	64.8	11,990	5.41	69.7	13,090	5.32
1007	8.95	256.8	78.8	78.9	63.4	11,890	5.30	68.1	12,960	5.22
1006	8.74	247.9	74.6	78.0	61.9	11,800	5.19	66.5	12,830	5.12
1005	8.54	239.3	70.5	77.0	60.4	11,700	5.09	64.9	12,700	5.01
1004	8.34	230.9	66.5	76.1	59.0	11,610	4.98	63.2	12,560	4.91
1003	8.15	222.6	62.6	75.1	57.5	11,510	4.88	61.6	12,430	4.81
1002	7.96	214.6	58.8	74.2	56.0	11,420	4.77	60.0	12,300	4.70
1001	7.78	206.7	55.1	73.2	54.6	11,320	4.66	58.4	12,170	4.60
1000	7.61	199.0	51.5	72.3	53.1	11,230	4.56	56.7	12,040	4.50
999	7.43	191.5	48.0	71.3	51.6	11,130	4.45	55.1	11,910	4.39
998	7.26	184.1	44.6	70.4	50.2	11,040	4.35	53.5	11,780	4.29
997	7.08	177.0	41.3	69.4	48.7	10,940	4.24	51.9	11,650	4.19
996	6.90	170.0	38.1	68.5	47.2	10,850	4.13	50.2	11,520	4.08
995	6.71	163.2	35.0	67.5	45.8	10,750	4.03	48.6	11,390	3.98
994	6.52	156.6	32.0	66.6	44.3	10,660	3.92	47.0	11,260	3.88
993	6.33	150.1	29.1	65.6	42.8	10,560	3.82	45.4	11,130	3.77
992	6.14	143.9	26.3	64.6	41.4	10,460	3.71	43.8	11,000	3.67
991	5.94	137.8	23.6	63.7	39.9	10,370	3.61	42.1	10,870	3.57
990	5.75	132.0	21.0	62.7	38.4	10,270	3.50	40.5	10,740	3.46
989	5.55	126.4	18.5	61.8	37.0	10,180	3.39	38.9	10,610	3.36
988	5.36	120.9	16.1	60.8	35.5	10,080	3.29	37.3	10,480	3.26
987	5.17	115.6	13.8	59.9	34.0	9,990	3.18	35.7	10,350	3.16
986	4.99	110.6	11.5	58.9	32.6	9,890	3.08	34.0	10,220	3.05

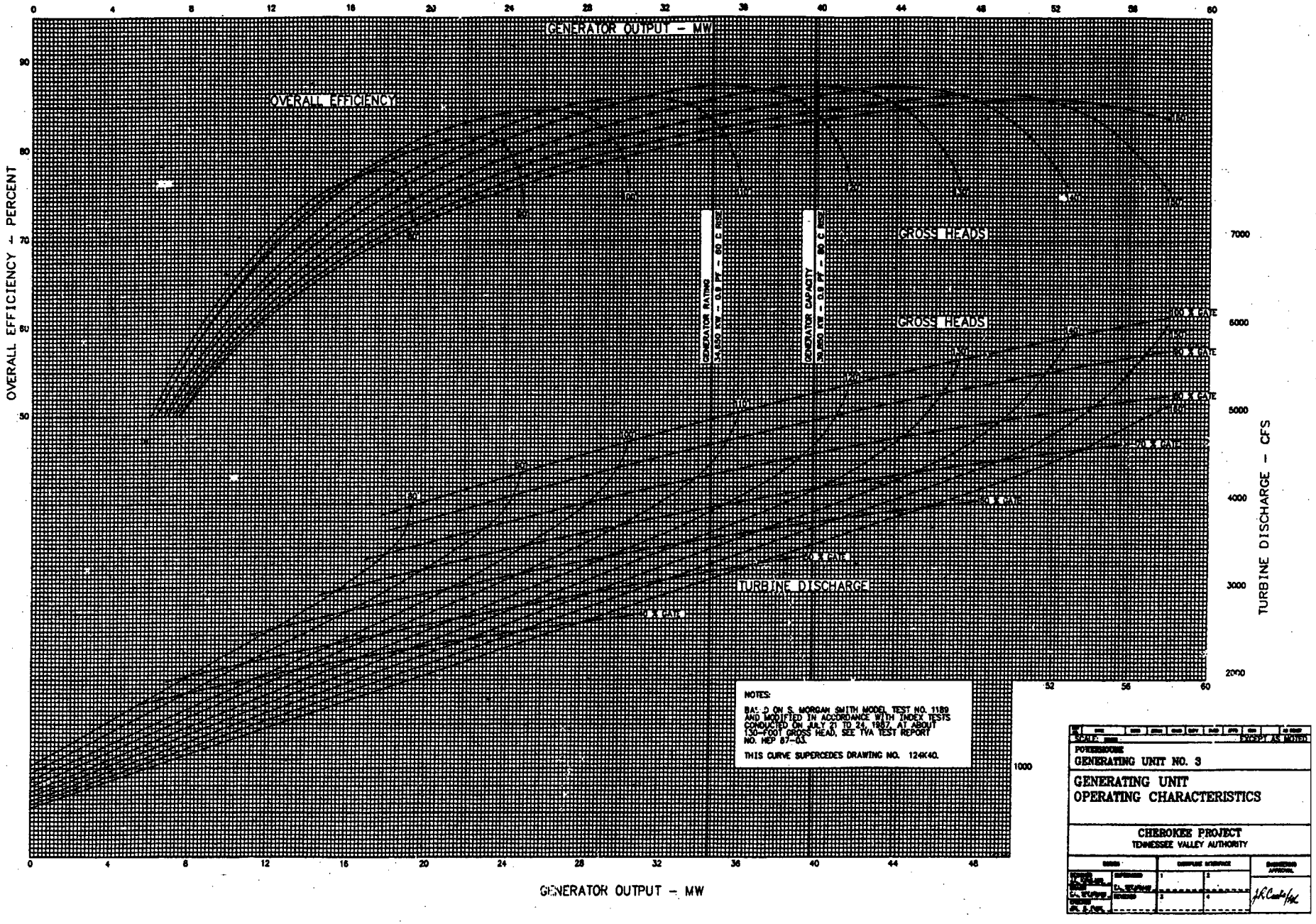
** EIS represents energy in storage, and includes production at Cherokee and all downstream plants through Kentucky Dam.*

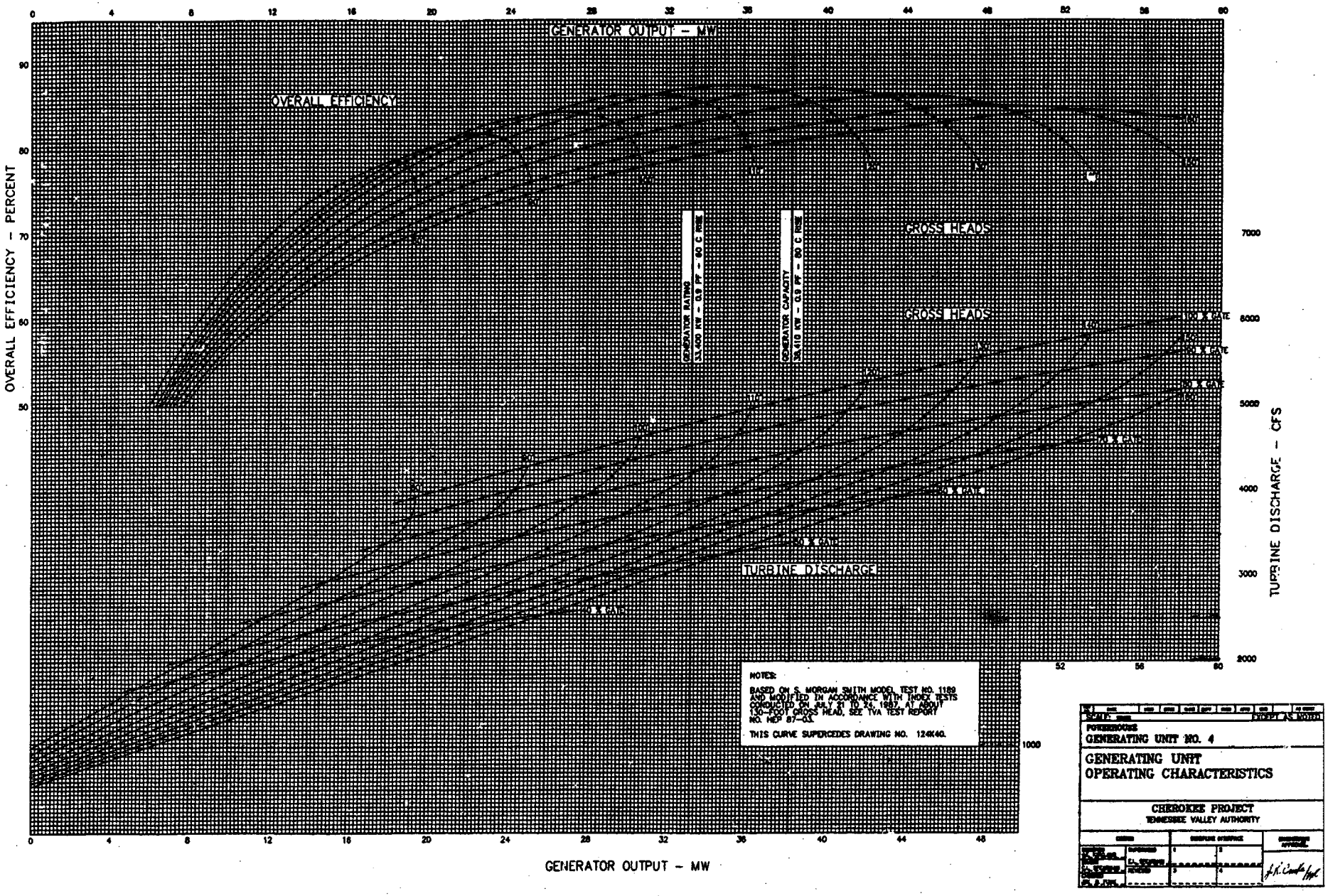
					BEST EFFICIENCY			MAXIMUM SUSTAINABLE		
Pool Elevation (feet)	Area (acre *1000)	Volume (ac-ft *1000)	Potential EIS* (gWh)	Gross Head (feet)	Plant Output (MW)	Turbine Discharge (cfs)	kW/cfs	Plant Output (MW)	Turbine Discharge (cfs)	kW/cfs
985	4.82	105.6	9.4	58.0	31.1	9,800	2.97	32.4	10,090	2.95
984	4.65	100.9	7.4	57.0	29.7	9,700	2.87	30.8	9,960	2.85
983	4.48	96.4	5.4	56.1	28.2	9,610	2.76	29.2	9,830	2.74
982	4.33	91.9	3.5	55.2	26.7	9,520	2.66	27.6	9,700	2.64
981	4.17	87.7	1.7	54.2	25.3	9,420	2.55	26.0	9,570	2.54
980	4.03	83.6	.0	53.3	23.8	9,330	2.45	24.3	9,440	2.44

** EIS represents energy in storage, and includes production at Cherokee and all downstream plants through Kentucky Dam.*


GENERATOR OUTPUT – MW
OVERALL EFFICIENCY
GROSS HEADS
GROSS HEADS
TURBINE DISCHARGE
GENERATOR RATING
GENERATOR CAPACITY
100 % GATE
80 % GATE
60 % GATE
OVERALL EFFICIENCY – PERCENT
TURBINE DISCHARGE – CFS
GENERATOR OUTPUT – MW
NOTES:
BASE: ON S. MORGAN SMITH MODEL TEST NO. 1189 AND MODIFIED IN ACCORDANCE WITH INDEX TESTS CONDUCTED ON JULY 21 TO 24, 1987, AT ABOUT 130-FOOT GROSS HEAD, SEE TVA TEST REPORT NO. HEP 87-03.
THIS CURVE SUPERCEDES DRAWING NO. 124K40.
POWERHOUSE
GENERATING UNIT NO. 1
GENERATING UNIT
OPERATING CHARACTERISTICS
CHEROKEE PROJECT
TENNESSEE VALLEY AUTHORITY


GENERATOR OUTPUT – MW
OVERALL EFFICIENCY
OVERALL EFFICIENCY – PERCENT
GROSS HEADS
GROSS HEADS
TURBINE DISCHARGE
TURBINE DISCHARGE – CFS
GENERATOR RATING 34,850 KW – 0.9 PF – 50 C RISE
GENERATOR CAPACITY 38,550 KW – 0.9 PF – 80 C RISE
100 % GATE
80 % GATE
60 % GATE
40 % GATE
20 % GATE
NOTES:
BASED ON S. MORGAN SMITH MODEL TEST NO. 1189 AND MODIFIED IN ACCORDANCE WITH INDEX TESTS CONDUCTED ON JULY 21 TO 24, 1987, AT ABOUT 130-FOOT GROSS HEAD, SEE TVA TEST REPORT NO. HEP 87-03.
THIS CURVE SUPERCEDES DRAWING NO. 124K40.
SCALE: EXCEPT AS NOTED
POWERHOUSE
GENERATING UNIT NO. 2
GENERATING UNIT
OPERATING CHARACTERISTICS
CHEROKEE PROJECT
TENNESSEE VALLEY AUTHORITY


GENERATOR OUTPUT - MW
OVERALL EFFICIENCY
OVERALL EFFICIENCY - PERCENT
GENERATOR RATING
34,650 KW - 0.9 PF - 60 C RISE
GENERATOR CAPACITY
39,950 KW - 0.9 PF - 80 C RISE
GROSS HEADS
GROSS HEADS
TURBINE DISCHARGE
100 % GATE
90 % GATE
80 % GATE
70 % GATE
60 % GATE
50 % GATE
40 % GATE
TURBINE DISCHARGE - CFS
NOTES:
BASED ON S. MORGAN SMITH MODEL TEST NO. 1189 AND MODIFIED IN ACCORDANCE WITH INDEX TESTS CONDUCTED ON JULY 21 TO 24, 1987, AT ABOUT 130-FOOT GROSS HEAD, SEE TVA TEST REPORT NO. HEP 87-03.
THIS CURVE SUPERCEDES DRAWING NO. 124K40.
SCALE: NONE
EXCEPT AS NOTED
POWERHOUSE
GENERATING UNIT NO. 3
GENERATING UNIT
OPERATING CHARACTERISTICS
CHEROKEE PROJECT
TENNESSEE VALLEY AUTHORITY


GENERATOR OUTPUT - MW
OVERALL EFFICIENCY
OVERALL EFFICIENCY - PERCENT
GENERATOR RATING
33,400 KW - 0.9 PF - 80 C RISE
GENERATOR CAPACITY
38,410 KW - 0.9 PF - 80 C RISE
GROSS HEADS
GROSS HEADS
100 X GATE
90 X GATE
80 X GATE
70 X GATE
60 X GATE
50 X GATE
40 X GATE
30 X GATE
TURBINE DISCHARGE
TURBINE DISCHARGE - CFS
GENERATOR OUTPUT - MW
NOTES:
BASED ON S. MORGAN SMITH MODEL TEST NO. 1189 AND MODIFIED IN ACCORDANCE WITH INDEX TESTS CONDUCTED ON JULY 21 TO 24, 1987, AT ABOUT 130-FOOT GROSS HEAD, SEE TVA TEST REPORT NO. HEP 87-03.
THIS CURVE SUPERCEDES DRAWING NO. 124K40.
GENERATING UNIT NO. 4
GENERATING UNIT
OPERATING CHARACTERISTICS
CHEROKEE PROJECT
TENNESSEE VALLEY AUTHORITY

Tennessee Valley Authority
River Scheduling

Volumes are average daily in day-second-feet, except as shown.
Maximum spill, date of maximum, and number of days of spill in each spill period, in this order. "Total Days" is for calendar year and does not always equal the sum of the days in periods because of extension of periods in to adjacent years.
Water may be spilled through spilllway and/or sluiceways. All unmarked spill was through the sluiceways.
Maximum hourly average discharge to date was 25,875 cfs at 3 a.m. on 2/12/57.
*Spillway

YEAR	MAXIMUM AVERAGE DAILY DISCHARGE (TURBINE + SPILL)	DATE	NUMBER OF PERIODS	TOTAL DAYS	
1941	0				Closure 12/5/41
1942	22950	8/11	1	3	17000---8/11---3
1943	17716	2/9	2	34	*6600---11/13---13; *10860---2/9---21
1944	20020	3/6	4	24	*13260---3/6---9; *11194---3/21---4; *11400---4/1---9; *3262---4/27---2
1945	14498	12/19	3	20	9700---12/19---16; 2925---12/28---3; 2375---12/31---2
1946	20522	2/20	5	35	1094---1/7---1; 13200---1/13-18---16; 550---1/31---1; 13600---2/17---13; 3400---3/10---3
1947	19342	1/24	1	9	12467---1/24---9
1948	11427	12/31	0	2	
1949	12438	1/1	3	12	6532---1/1---5; 3520---1/10---4; 10152---12/26---5
1950	23462	2/16	1	23	15190---2/4---23
1951	18500	12/25	1	7	10076---12/25---7
1952	8654	2/4	0	0	
1953	8014	4/16	0	0	
1954	10586	6/28	0	0	
1955	12026	3/27	0	0	
1956	12981	9/15	0	0	
1957	25565	2/12	1	13	6340---2/12---13
1958	15174	1/6	0	0	
1959	16013	12/22	0	0	
1960	12558	9/27	0	0	
1961	15880	3/10	0	0	

Volumes are average daily in day-second-feet, except as shown.
Maximum spill, date of maximum, and number of days of spill in each spill period, in this order. "Total Days" is for calendar year and does not always equal the sum of the days in periods because of extension of periods in to adjacent years.
Water may be spilled through spillway and/or sluiceways. All unmarked spill was through the sluiceways.
Maximum hourly average discharge to date was 25,875 cfs at 3 a.m. on 2/12/57.
*Spillway

YEAR	MAXIMUM AVERAGE DAILY DISCHARGE (TURBINE + SPILL)	DATE	NUMBER OF PERIODS	TOTAL DAYS	
1962	18560	2/27	0	0	
1963	17558	3/17&18	0	0	
1964	11702	12/28	0	0	
1965	13281	11/3	0	0	
1966	15255	12/19	0	0	
1967	21263	12/27	1	6	5065---12/27---6
1968	15978	1/1	0	0	
1969	11384	12/17	0	0	
1970	15828	1/7	0	0	
1971	10926	11/27	0	0	
1972	19676	12/31	0	0	
1973	19613	1/2	0	0	
1974	20257	1/22	2	15	3410---1/7&8---4; 3410---1/14---11
1975	16239	2/2	0	0	
1976	14803	1/9	0	0	
1977	17471	12/22	0	0	
1978	15295	1/11	0	0	
1979	16203	1/29	0	0	
1980	15637	3/31	0	0	
1981	11827	6/19	0	0	
1982	17282	1/11	0	0	
1983	18359	12/25	0	0	
1984	14977	5/15	0	0	

Tennessee Valley Authority
River Scheduling

Volumes are average daily in day-second-feet, except as shown.
Maximum spill, date of maximum, and number of days of spill in each spill period, in this order. "Total Days" is for calendar year and does not always equal the sum of the days in periods because of extension of periods in to adjacent years.
Water may be spilled through spilllway and/or sluiceways. All unmarked spill was through the sluiceways.
Maximum hourly average discharge to date was 25,875 cfs at 3 a.m. on 2/12/57.
*Spillway

YEAR	MAXIMUM AVERAGE DAILY DISCHARGE (TURBINE + SPILL)	DATE	NUMBER OF PERIODS	TOTAL DAYS	
1985	12788	1/21	0	0	
1986	12823	1/28	0	0	
1987	11792	7/10	0	0	
1988	12556	1/14	0	0	
1989	16066	12/22	0	0	
1990	17595	2/21	0	0	
1991	15255	1/4	1	1	21---10/4---1
1992	13402	12/22	0	0	
1993	13831	1/14	0	0	
1994	20149	2/18	1	5	*3286---2/16---5
1995	13454	1/17	0	0	
1996	17396	12/20	0	0	
1997	16196	3/14	0	0	
1998	14392	4/29	0	0	
1999	11200	1/21	0	0	
2000	13026	10/23	0	0	
2001	15095	11/14	0	0	
2002	14812	12/20	0	0	

RIVER SCHEDULING

TVA OPERATED RESERVOIR SYSTEM
ANNUAL MAXIMUM AND MINIMUM ELEVATIONS, IN ORDER OF MAGNITUDE
FROM DATE OF RESERVOIR CLOSURE THROUGH 2003

CHEROKEE

MAXIMUM					MINIMUM				
ORDER	ELEVATION	YEAR	MONTH	DAY	ORDER	ELEVATION	YEAR	MONTH	DAY
1	1074.48	1989	JUNE	19	1	933.74 *	1941	DEC.	5
2	1074.47	1973	MAY	30	2	974.75	1942	JAN.	1
3	1074.37	1944	MAY	11	3	980.77	1954	JAN.	7
4	1074.19	1984	MAY	13	4	980.94	1948	JAN.	30
5	1073.40	1958	MAY	15	5	981.15	1956	JAN.	12
6	1072.98	2003	JUNE	21	6	982.00	1955	FEB.	2
7	1072.33	1949	JULY	22	7	983.55	1953	DEC.	31
8	1072.25	1983	MAY	29	8	985.10	1959	JAN.	12
9	1072.04	1942	AUG.	25	9	988.40	1966	FEB.	3
10	1071.96	1992	JUNE	22	10	990.35	1958	DEC.	19
11	1071.88	1974	JUNE	15	11	990.83	1946	DEC.	20
12	1071.88	1979	JUNE	30	12	991.09	1947	JAN.	1
13	1071.76	1998	JUNE	15	13	992.80	1960	DEC.	29
14	1071.65	1972	MAY	26	14	993.37	1965	DEC.	27
15	1071.60	1996	JUNE	2	15	995.25	1957	JAN.	22
16	1071.59	1991	JUNE	17	16	996.56	1961	JAN.	1
17	1071.32	1997	JUNE	17	17	1000.42	1963	DEC.	31
18	1071.31	1975	MAY	21	18	1000.49	1964	JAN.	1
19	1071.13	1965	MAY	4	19	1003.80	1962	DEC.	22
20	1071.09	1967	AUG.	2	20	1005.34	1970	DEC.	17
21	1071.06	1993	JUNE	7	21	1006.68	1968	DEC.	18
22	1071.04	1943	MAY	3	22	1006.70	1969	JAN.	10
23	1070.10	1987	MAY	10	23	1007.59	1952	DEC.	31
24	1069.90	1994	JUNE	12	24	1008.83	1951	JAN.	31
25	1069.84	1990	JUNE	3	25	1011.64	1943	DEC.	27
26	1069.84	1946	JUNE	10	26	1012.65	1971	JAN.	1
27	1068.33	1956	MAY	15	27	1013.93	1944	JAN.	1
28	1068.21	1950	JUNE	12	28	1014.26	1977	FEB.	15
29	1067.58	1962	MAY	6	29	1015.94	1950	JAN.	12
30	1065.80	2002	JUNE	3	30	1017.09	1981	JAN.	23
31	1065.46	1961	JULY	4	31	1018.20	1967	JAN.	21
32	1064.43	2001	AUG.	1	32	1018.81	1945	FEB.	12
33	1064.18	1964	MAY	11	33	1019.88	1949	DEC.	27
34	1063.33	1995	JUNE	26	34	1022.55	1980	DEC.	31
35	1063.07	1999	JULY	19	35	1022.71	1978	MAR.	3
36	1062.43	1957	JULY	6	36	1022.85	1987	DEC.	18
37	1062.38	2000	JULY	17	37	1022.87	1988	JAN.	16
38	1062.14	1971	MAY	17	38	1022.93	1983	JAN.	28
39	1062.08	1968	JUNE	17	39	1023.34	1985	JAN.	30
40	1061.96	1951	MAY	21	40	1023.78	1986	JAN.	29
41	1060.97	1977	MAY	12	41	1024.16	1975	DEC.	26
42	1060.41	1960	MAY	30	42	1025.05	1995	JAN.	6
43	1060.25	1955	MAY	2	43	1025.50	1994	DEC.	27
44	1059.58	1945	JUNE	25	44	1025.52	1999	JAN.	6
45	1059.17	1978	JUNE	26	45	1025.64	1976	JAN.	1
46	1058.55	1948	APR.	19	46	1026.31	1997	DEC.	19
47	1058.24	1952	JUNE	2	47	1026.37	1998	DEC.	30
48	1057.86	1981	JUNE	15	48	1026.41	2000	DEC.	21
49	1057.84	1963	AUG.	8	49	1026.86	1989	DEC.	25

RIVER SCHEDULING

TVA OPERATED RESERVOIR SYSTEM
ANNUAL MAXIMUM AND MINIMUM ELEVATIONS, IN ORDER OF MAGNITUDE
FROM DATE OF RESERVOIR CLOSURE THROUGH 2003

CHEROKEE

MAXIMUM					MINIMUM				
ORDER	ELEVATION	YEAR	MONTH	DAY	ORDER	ELEVATION	YEAR	MONTH	DAY
50	1057.67	1982	JUNE	20	50	1027.22	2001	JAN.	3
51	1057.48	1976	JULY	12	51	1027.63	1972	JAN.	1
52	1056.47	1970	MAY	18	52	1027.78 %	2003	JAN.	24
53	1054.72	1980	MAR.	28	53	1027.90	2002	JAN.	18
54	1052.84	1953	MAY	30	54	1028.07	1996	JAN.	16
55	1052.74	1969	JUNE	25	55	1028.08	1990	JAN.	1
56	1051.78	1959	JUNE	21	56	1028.13	1984	DEC.	28
57	1051.57	1986	MAY	31	57	1029.11	1982	NOV.	17
58	1051.56	1966	MAY	26	58	1029.62	1979	DEC.	25
59	1047.26	1954	JUNE	7	59	1029.84	1973	JAN.	18
60	1046.35	1985	MAY	28	60	1030.00	1974	DEC.	23
61	1046.25	1988	MAY	28	61	1030.51	1992	JAN.	22
62	1045.12	1947	APR.	19	62	1030.65	1993	DEC.	23
63	973.95	1941	DEC.	31	63	1034.36	1991	FEB.	1

* CLOSURE
% MIDNIGHT ELEVATION
TOP-OF-GATES ELEVATION 1075

MAXIMUM, MINIMIUM, MEDIAN, AND MEAN
Adjusted Flow by Weeks
Cherokee
Years=1903-2002

WEEK ENDING	WEEK NO.	AVERAGE WEEKLY CFS MAXIMUM	YR	MINIMUM	YR	MEDIAN	MEAN
JAN 7	1	26,100	1974	674	1956	5,070	6,160
JAN 14	2	27,300	1946	776	2001	4,980	6,120
JAN 21	3	32,400	1947	1,170	1966	5,100	6,220
JAN 28	4	21,800	1962	620	1966	6,560	7,470
FEB 4	5	60,100	1957	818	1940	5,920	7,970
FEB 11	6	34,900	1957	1,010	1934	6,230	7,950
FEB 18	7	25,600	1948	894	1934	7,080	8,470
FEB 25	8	28,100	1927	983	1934	6,850	8,140
MAR 4	9	23,700	1962	1,330	2002	6,450	7,850
MAR 11	10	26,400	1963	1,460	2002	7,470	8,400
MAR 18	11	41,800	1963	1,940	1931	7,060	9,020
MAR 25	12	30,000	1955	1,880	1988	7,200	8,640
APR 1	13	37,700	1994	1,810	1988	7,010	8,760
APR 8	14	41,500	1977	1,640	1966	6,510	7,880
APR 15	15	17,800	1972	600	1966	5,630	6,760
APR 22	16	34,000	1998	1,440	1942	5,010	6,100
APR 29	17	16,100	1987	1,220	1942	5,130	5,690
MAY 6	18	18,100	1958	1,140	1942	4,250	5,370
MAY 13	19	38,500	1984	873	2001	4,150	5,480
MAY 20	20	16,500	1950	600	1967	3,930	4,680
MAY 27	21	12,300	1942	1,120	1941	3,620	4,330
JUN 3	22	20,500	1927	972	1941	3,120	4,200
JUN 10	23	13,800	1981	961	1988	2,640	3,520
JUN 17	24	22,800	1907	818	1988	2,590	3,430
JUN 24	25	8,550	1972	576	2002	2,550	2,920
JUL 1	26	10,900	1929	336	1970	2,350	2,750
JUL 8	27	10,600	1929	528	1988	2,460	2,680
JUL 15	28	14,400	1949	39	1970	2,330	2,830
JUL 22	29	19,300	1916	884	1954	2,000	2,830
JUL 29	30	14,600	1938	487	1952	2,220	2,590
AUG 5	31	11,400	2001	334	2002	2,130	2,760
AUG 12	32	12,600	1942	315	2002	2,010	2,360
AUG 19	33	20,300	1940	530	1959	1,840	2,650
AUG 26	34	9,220	1920	439	1976	1,850	2,220
SEP 2	35	8,690	1982	491	1999	1,460	1,970
SEP 9	36	14,900	1928	-,179	1964	1,490	1,860
SEP 16	37	5,950	1982	222	1999	1,450	1,630
SEP 23	38	7,630	1928	258	1959	1,240	1,620
SEP 30	39	9,480	1907	378	1999	1,320	1,720
OCT 7	40	12,300	1972	291	1953	1,210	1,930
OCT 14	41	11,700	1976	305	1958	1,160	1,560
OCT 21	42	10,900	1964	243	1981	1,320	1,800
OCT 28	43	10,400	1918	226	1968	1,370	1,900
NOV 4	44	15,100	1918	109	1955	1,390	1,980
NOV 11	45	24,500	1977	193	1953	1,500	2,140
NOV 18	46	9,070	2002	318	1965	1,560	2,230
NOV 25	47	16,000	1906	414	1963	1,970	2,560
DEC 2	48	13,600	1985	323	1969	2,170	3,130
DEC 9	49	15,100	1993	50	1958	2,530	3,670
DEC 16	50	31,800	1972	651	1955	3,130	4,290
DEC 23	51	21,000	1961	678	1958	2,840	4,310
DEC 31	52	25,200	1926	372	1963	4,560	5,420

AVERAGE FLOW:1903 - 2002 = 4440 CFS

MAXIMUM, MINIMIUM, MEDIAN, AND MEAN
Adjusted Flows Computed by:

Cherokee
(3,428 square miles)

1/1/03-9/30/30 Discharges computed from USGS records at Rogersville, using a relation which varied with season and flow. Drainage area: Rogersville, 3035 sq. mi.

10/1/30-4/22/37 Discharges computed as follows: Cherokee Discharge = Rogersville ~ 0.665 (Strawberry Plains - Rogersville). Drainage area: Strawberry Plains, 3,626 sq. mi.

4/23/37-12/31/38 Discharges obtained from USGS Water Supply Papers and USGS unpublished records of gage near Jefferson City, Tennessee.

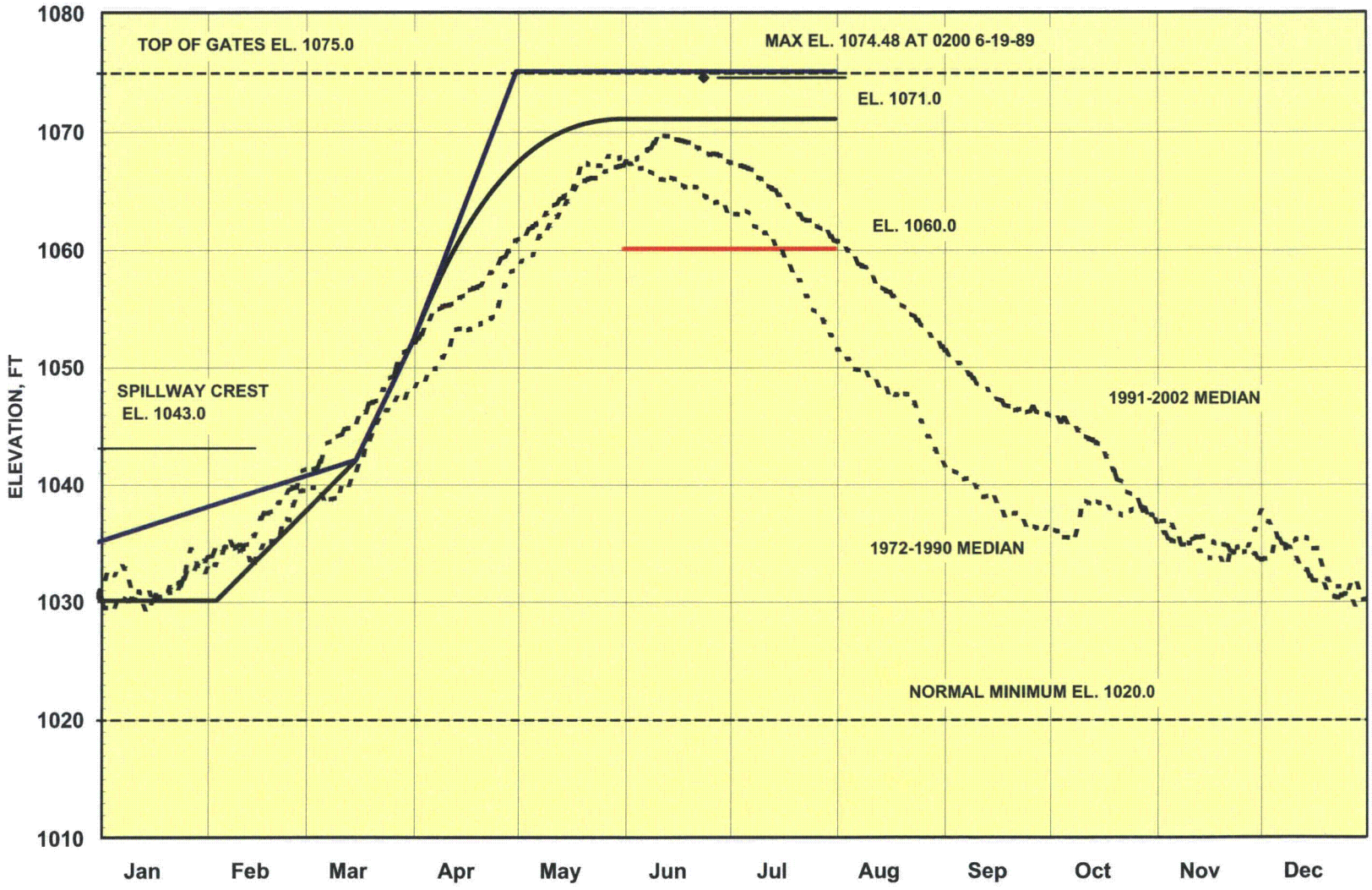
1/1/39-12/31/56 Natural streamflows were computed from USGS records of the Near Jefferson City, Tennessee, gage (3429 square miles).

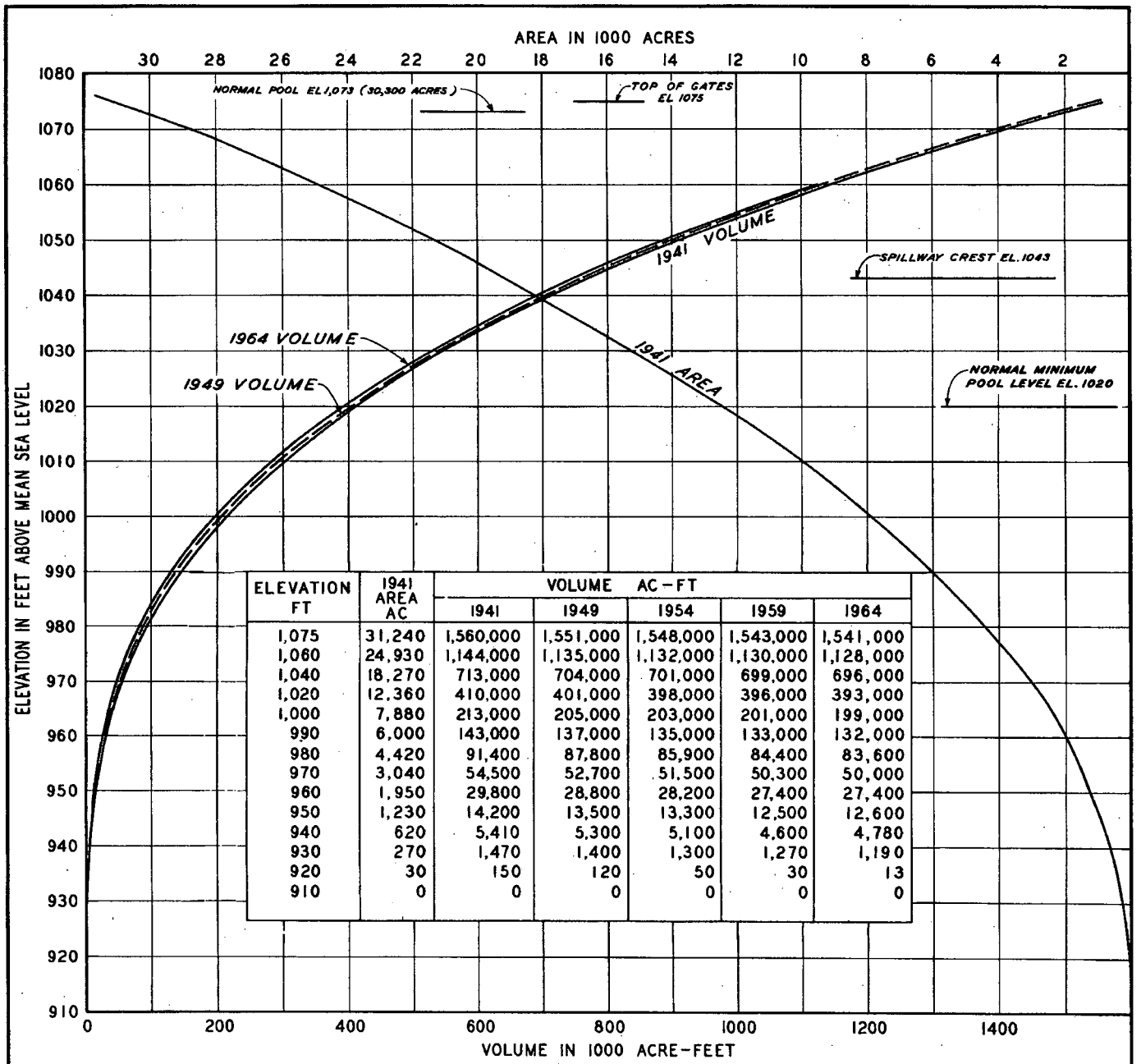
The discharge at this gage were corrected for storage changes in the following reservoirs beginning with the date shown:

12/5/41 Cherokee
12/1/48 Watauga
11/20/50 South Holston
12/16/52 Boone
10/27/53 Fort Patrick Henry
10/1/54 John Sevier Steam Plant cooling water reservoir

1/1/57-current Flows were computed by correcting discharges reported by TVA for Cherokee Dam, for storage changes at Cherokee and the upstream reservoirs listed above (John Sevier discontinued after 12/31/57).

ANNUAL OPERTING CYCLE





ELEVATION FT	1941 AREA AC	VOLUME AC-FT 1941	1949	1954	1959	1964
1,075	31,240	1,560,000	1,551,000	1,548,000	1,543,000	1,541,000
1,060	24,930	1,144,000	1,135,000	1,132,000	1,130,000	1,128,000
1,040	18,270	713,000	704,000	701,000	699,000	696,000
1,020	12,360	410,000	401,000	398,000	396,000	393,000
1,000	7,880	213,000	205,000	203,000	201,000	199,000
990	6,000	143,000	137,000	135,000	133,000	132,000
980	4,420	91,400	87,800	85,900	84,400	83,600
970	3,040	54,500	52,700	51,500	50,300	50,000
960	1,950	29,800	28,800	28,200	27,400	27,400
950	1,230	14,200	13,500	13,300	12,500	12,600
940	620	5,410	5,300	5,100	4,600	4,780
930	270	1,470	1,400	1,300	1,270	1,190
920	30	150	120	50	30	13
910	0	0	0	0	0	0

All areas were determined from Corps of Engineers topographic map of the Holston River Valley Dwg Nos. 169-174 at a contour interval of 10 feet, with the exception of a few areas at the higher elevations which were taken from TVA topographic maps at a contour interval of 20 feet, and the area at the 1075 contour which was determined from TVA navigation maps of Cherokee Reservoir.
All elevations are referred to the 1936 Supplementary Adjustment of the USC & GS.
Area of original river within reservoir = 2,426 acres.
Drainage area at dam = 3,428 square miles.
This drawing was prepared by the Hydraulic Data Branch.
The 1949 and subsequent volumes were determined by the constant factor method for computing sediment.
1959 and 1964 volumes and area at normal pool elevation 1073 exclude John Sevier Detention Pool.

Dam closure December 5, 1941.

THIS DRAWING SUPERSEDES 12-PP-1-321G187

REV	DATE	MADE	CHKD	SUPV
4	9-24-72	RHL		
ADJ. 1959 & 1964 VOLUMES & ADD NOTE				
3	3-29-72	RHL		
CHANGE NORMAL MIN POOL LEVEL				
2	7-67	WMS		WMS
ADD 1964 VOLUMES TO TABLE				
1	4-53	RAWMS	LEAB	EHM
Revised volumes and notes				

DRWN TCB COMPUTED TCB
TRCD WHO ENGINEER
CHKD EHM EHM

HOLSTON RIVER MILE 52.3

RESERVOIR AREAS AND VOLUMES

CHEROKEE PROJECT
TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING

SUBMITTED | RECOMMENDED | APPROVED

KNOXVILLE 6-22-53 12 DA 1 321K792R4

RESERVOIR RELEASE IMPROVEMENTS

Four modifications have been made to improve the quality of the aquatic environment below the dam : (1) Surface water pumps (2) Oxygen diffuser system (3) Turbine venting (4) Turbine pulsing.

SURFACE WATER PUMPS

The surface water pumps at Cherokee Hydro Plant (See Figure 7) are located at the upstream face of the dam. The pumps are designed to move large quantities of the warm surface water, relatively high in dissolved oxygen (DO) content, down to the withdrawal zone of the hydroturbine units. The surface water mixes with the low DO subsurface water as it enters the hydroturbine unit. This mixing raises the average DO content of the release by approximately 2 mg/L.

There are a total of nine pumps mounted on triangular float assemblies (Figure 7). The assemblies are linked at the corners and attached to the dam via a shock-absorbing trolley connection. A trolley on the end of each strut runs on a vertical rail anchored to the face of the dam, to allow for varying headwater elevations. Power for the pump motors, motor space heaters, and the navigation lights is provided from the top of dam with a festoon assembly to allow for fluctuating lake levels. The pump shafts extend approximately 18 ft. below the water surface with a 16 ft diameter impeller at the end. Each impeller is driven by a 75-horsepower electric motors through a 90 gear reduction unit. At the design point, the impellers rotate at approximately 30 RPM, moving 700 cubic feet of water per second. To achieve this capacity, an average velocity of 3.5 ft/sec is developed over the swept area of the impellers. To provide flexibility in pump operation, the motors are driven by variable frequency drives located in the head gate gallery of the dam. During periods of lower temperature stratification or lower headwater elevations, the impeller speed can be reduced to prevent bottom sediments from being disturbed.

OXYGEN DIFFUSER SYSTEM

The oxygen diffuser system for Cherokee Hydro Plant is designed to provide a large instantaneous oxygen flow rate to help aerate the turbine water flow while the turbine is in operation and to provide a smaller continuous flow rate to keep the forebay charged with high DO water. The oxygen diffuser system consists of sixteen line diffusers of various lengths for a total of 48,000 feet. There are two banks of eight diffusers. The first bank starts approximately 400 feet upstream of the dam and runs a maximum length of 3,600 feet. The second bank begins 4,000 feet upstream of the dam with lines of about 3,150 feet each. In each bank, the eight diffusers are 125 feet apart and float approximately 6 feet off the bottom of the reservoir.

OXYGEN DIFFUSER SYSTEM (Continued)

The line diffusers are constructed from polyethylene pipe which supplies oxygen to diffuser hoses (garden soaker hoses). The diffuser hoses have an orifice at their point of connection to the supply pipe to equalize the flow and to minimize losses in the event of a hose break. The diffusers are supplied with oxygen from a liquid oxygen storage facility located in the parking area along the access road to the northeastern side of the dam. The storage facility equipment consists of a horizontal 20,900-gallon liquid oxygen storage tank, ten ambient air vaporizers, a solenoid - operated emergency shut-off valve, a temperature switch for low temperature shut-off, a pressure gauge and transmitter, four remotely operated control valves, four flowmeters, and sixteen pressure regulators. The vaporizers are equipped with solenoid-operated valves and a timer to alternate flow through one-half of the vaporizers at a time to allow for a freeze/thaw cycle.

From the vaporizers, a supply line feeds oxygen to each of the four headers. Each header is equipped with a remote operated valve and flowmeter and feeds four supply lines which are constructed from 2-inch polyethylene pipe. Each of the sixteen supply lines provides oxygen to a single line diffuser and is equipped with a valve and pressure regulator for flow control.

TURBINE VENTING SYSTEM

The turbine venting system can be used to increase the dissolved oxygen content of the turbine releases up to about 1 mg/L depending upon wicket gate opening and headwater elevation. Because it is relatively expensive to operate, this system is the first aeration method to be utilized when the dissolved oxygen in the discharge drops below the target level.

Turbine venting utilizes the vacuum breaker ports on the turbine casing to induce air into the water flowing through the turbine. The technique consists of adding baffles over existing vacuum breaker ports and providing vacuum breaker system by-pass piping for aeration.

To increase the amount of air which is induced through the vacuum breaker system, vacuum breaker by-pass piping and hub baffles were installed on all four hydroturbine units at Douglas. The by-pass system consist of an 8 in diameter opening in the headcover, to which is attached an 8 in diameter pipe. This pipe is equipped with a check valve to prevent back flow, a butterfly valve for off-on flow control, and a bellmouth intake to reduce flow resistance and provide flow measurement. The by-pass system was installed below the walkway surrounding the turbine guide bearing. Holes were drilled in the deckplates to provide ventilation for the by-pass piping. To further increase suction through the vacuum breaker system, flat plate hub

baffles were installed at the vacuum breaker outlets located on the turbine crown.

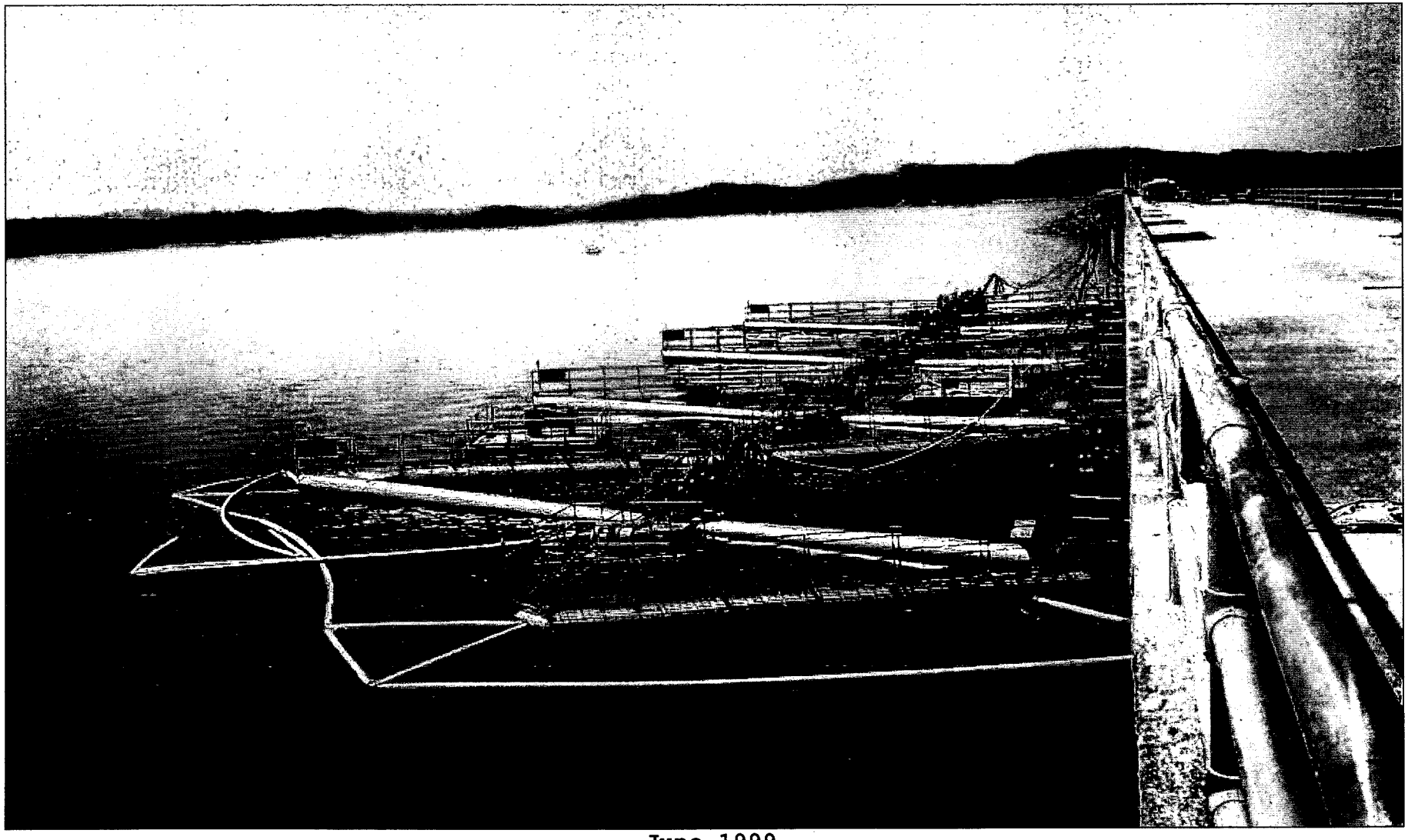
The combined operation of the surface water pumps, the oxygen diffuser system, and the turbine venting system, provides the target 4 mg/L in the release during periods of maximum dissolved oxygen deficit.

TURBINE PULSING

Turbine pulsing provides minimum downstream water levels with peroidic releases through the hydro turbines during scheduled off hours.

FIGURE 7

Surface Water Pumps



June 1999

SAFETY MODIFICATION FOR PROBABLE MAXIMUM FLOOD

Controlling Features

From the Cherokee Dam Safety-Stability Analysis Study, it was proposed that a 7.5 foot high concrete retaining wall be constructed on top of the existing concrete dam for the Probable Maximum Flood (PMF). This safety modification for PMF would also reduce the potential for embankment erosion at the junction of the earth embankment and the concrete dam. The final design was a 7.5 foot high non-overflow wall on blocks 1 through 8 and 31 through 38. (See Figures 8 and 9).

Cost of Modification

The safety modifications for PMF were approved and construction was completed in April 1985 at a cost of $395,000.

FIGURE 8: Wall Atop Non-overflow Blocks 1-8, June 1999

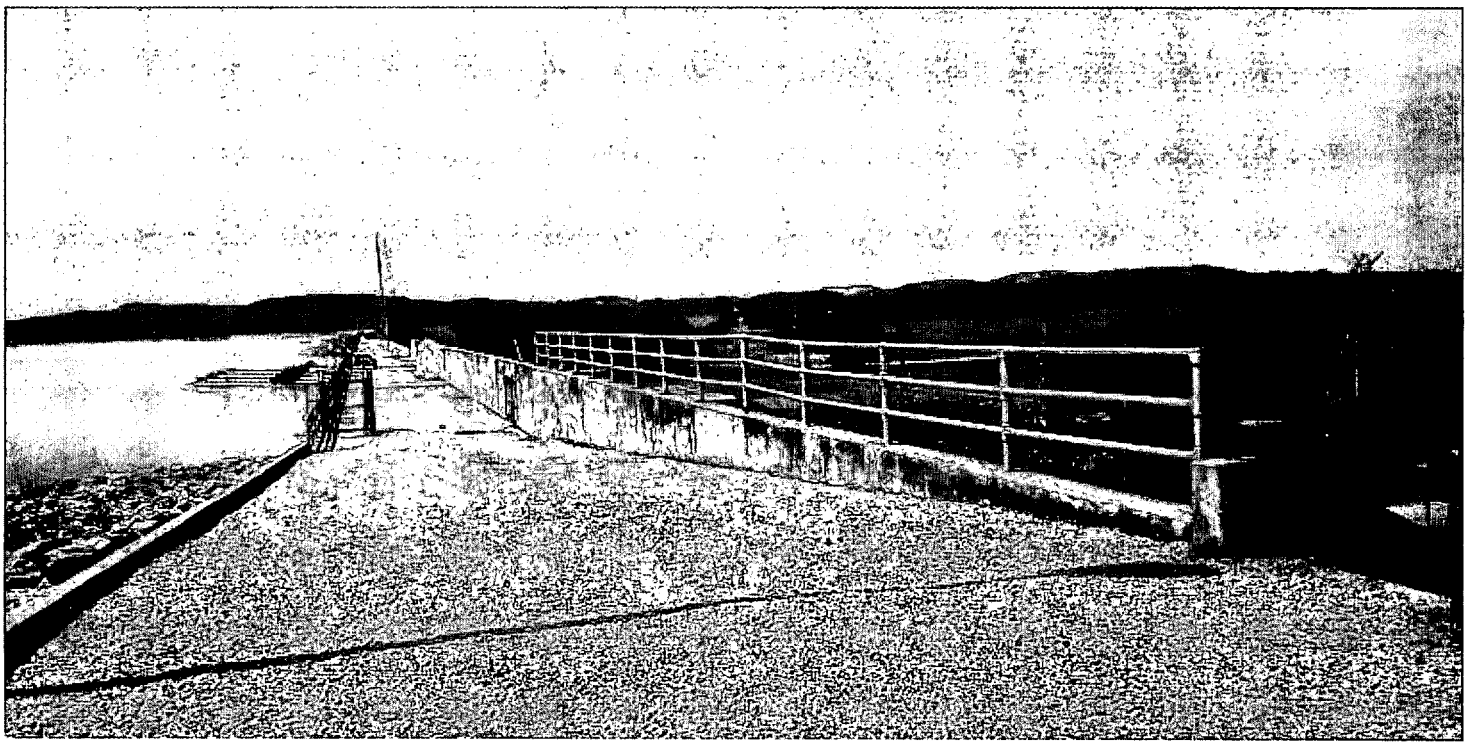
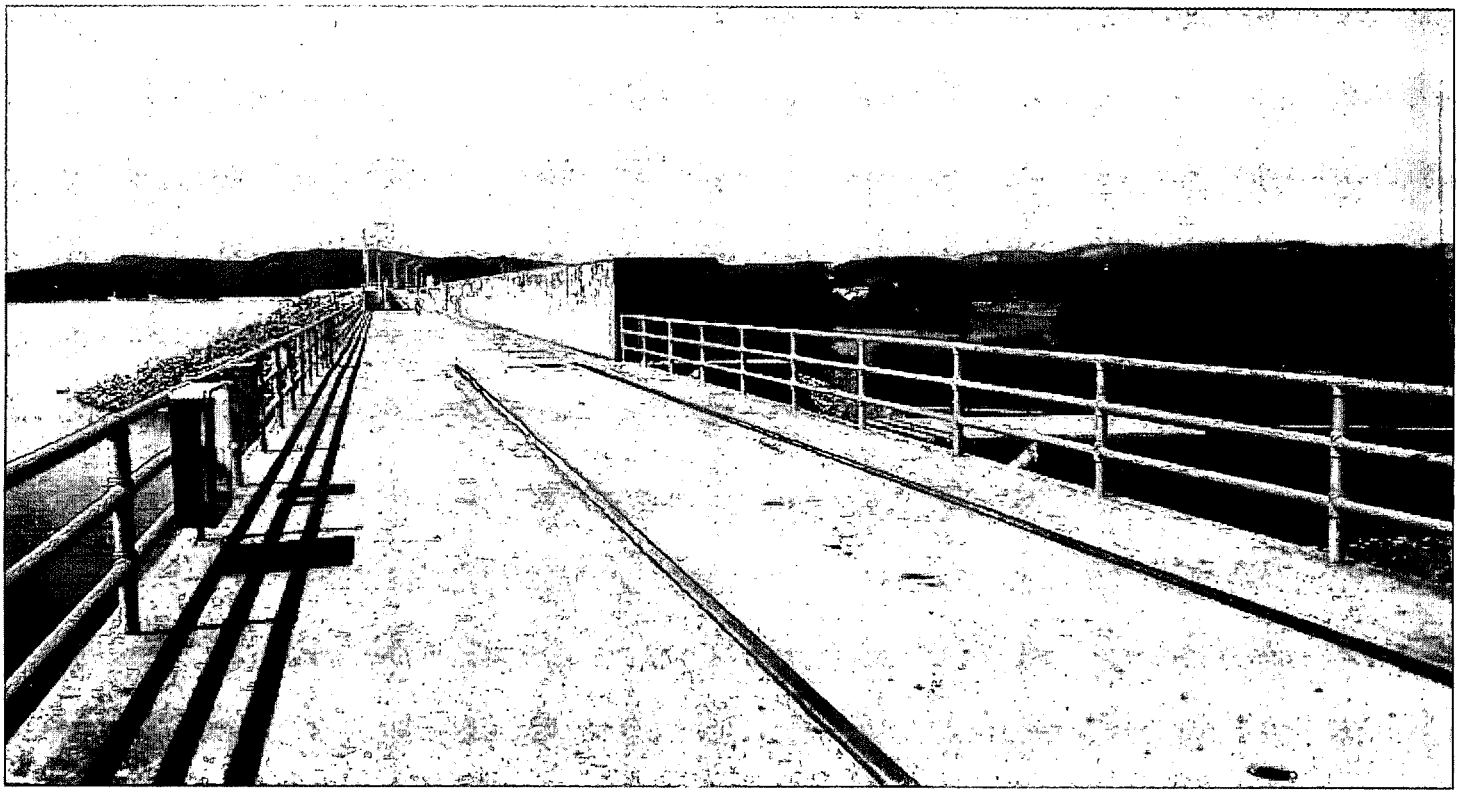


FIGURE 9: Wall Atop Non-overflow Blocks 31-38, June 1999



HOUSING FACILITIES
(Original Project)

Permanent houses built.....None
Dormitories built, men (270 total capacity).....5
Permanent buildings constructed included a cafeteria(200 seats), hospital, and a community and recreation building.

ORIGINAL CONSTRUCTION DATA

PERSONNEL

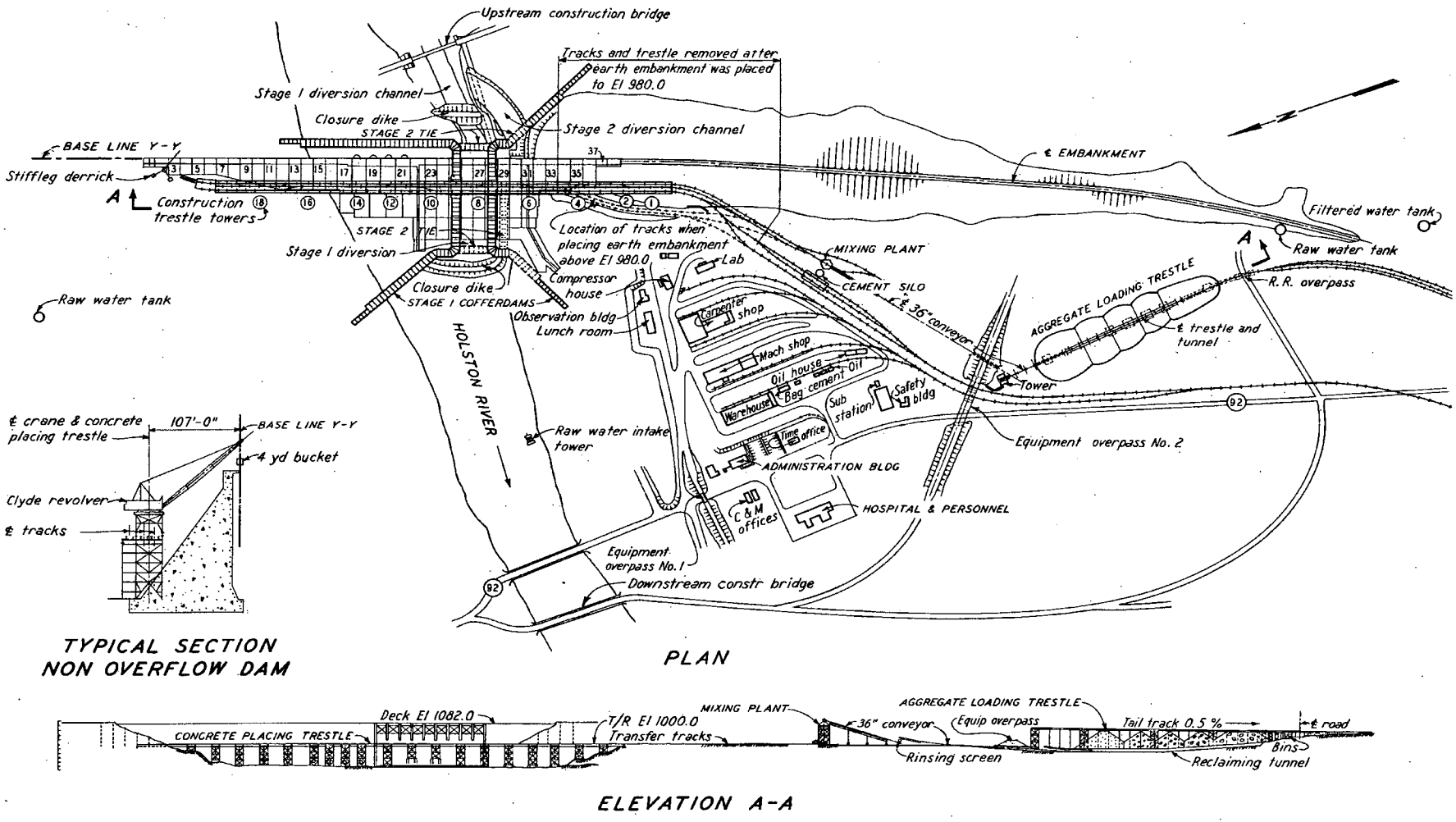
	Dam and Reservoir Construction	Dam Construction Only	Units 2 and 4
Peak employed	4,000*	3,000	105**
Total man-hours	11,794,786	8,050,632	350,000*
Number of injuries	159	109	2
Days lost	55,439	47,403	1,260
Fatalities	8	7	0
Accident frequency	13.5	13.5	5.71
Accident severity	4,700	5,888	3,600

*Estimated
**Trades and labor hourly

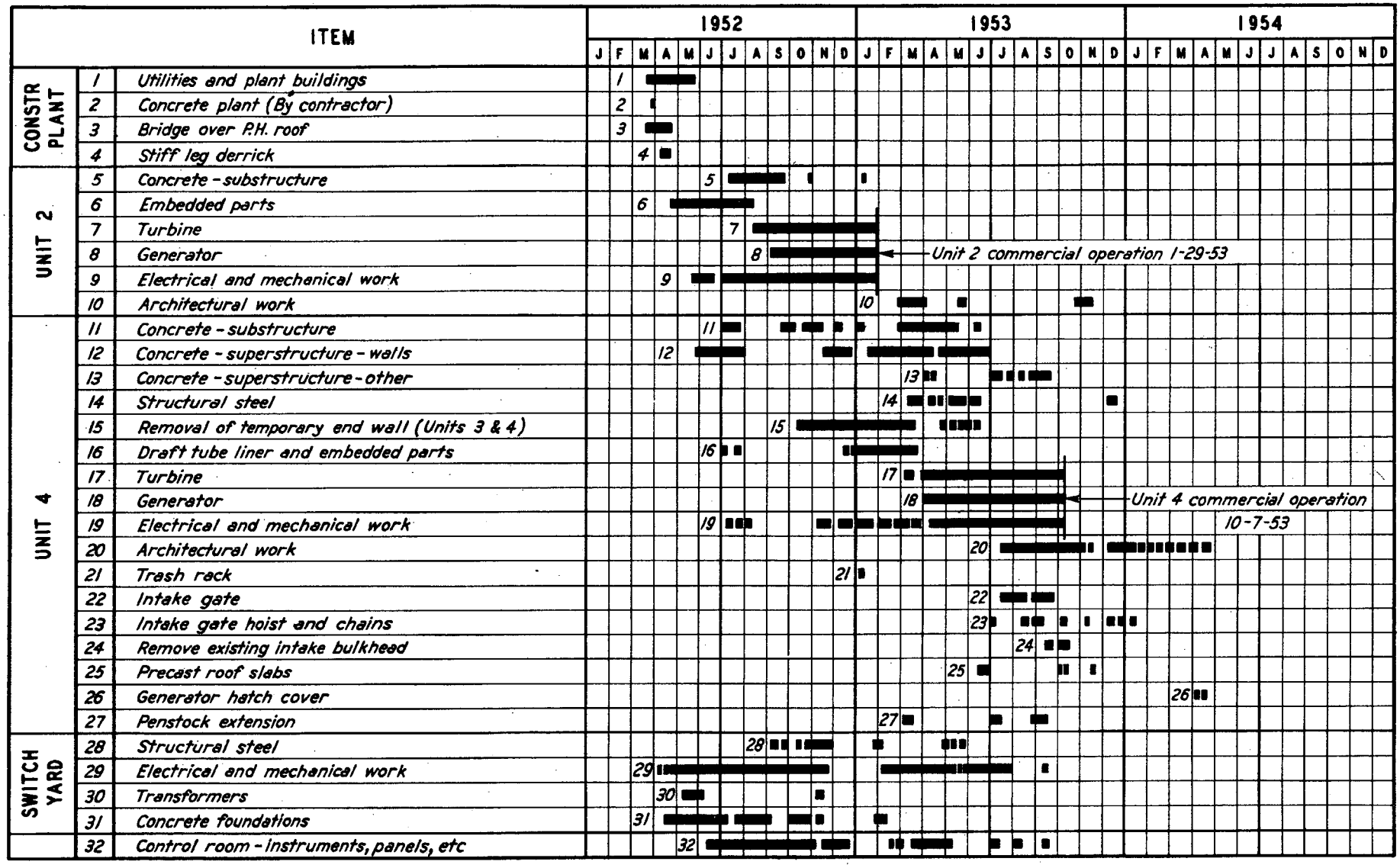
QUANTITIES

	Initial Project	Units 2 and 4 Addition
Dam and power facilities:		
Earth excavation	289,000 cu. yd	-
Rock excavation	234,700 cu. yd	-
Unclassified excavation	486,200 cu. yd	-
Concrete	686,300 cu. yd	7,900 cu. yd
Structural steel	2,750 tons	120 tons
Reinforcing steel	3,970 tons	175 tons
Rolled earthfill	1,646,600 cu. yd	-
Earthfill (other than rolled)	119,500 cu. yd	-
Rockfill (includes filter beds)	1,389,400 cu. yd	-
Riprap	148,600 cu. yd	-
Highway and railroad:		
Excavation	3,290,000 cu. yd	-

FIGURE 10



CONSTRUCTION PLANT LAYOUT



CONSTRUCTION SCHEDULE - UNITS 2 & 4

STAGES	NO:	ITEM OR EQUIPMENT	QUANTITY	UNIT
CONSTRUCTION SERVICES	A	ACCESS ROADS		
	C	CONSTRUCTION POWER		
	D	WATER SUPPLY AND SEWAGE DISPOSAL		
		BUNKHOUSE CAMP AND MESS HALL		
		RAILROAD SIDING		
CONSTRUCTION PLANT	F	CONSTRUCTION UTILITIES-WATER, AIR, POWER		
	G	CONSTRUCTION ROADS AND YARD		
	H	SHOP BUILDINGS AND JOB BUILDINGS		
	I	AGGREGATE STORAGE TRESTLE		
	K	CONSTRUCTION WORK TRESTLE		
	J	CONCRETE AND CEMENT PLANT		
NORTH EMBANKMENT	21	STRIPPING AND GENERAL EXCAVATION		
	25	PREPARE AND GROUT FOUNDATION		
	26	CUT-OFF WALL SHEET PILING		
	29	EARTH EMBANKMENT		
	31	ROCK FILL		
SOUTH EMBANKMENT	21	STRIPPING AND GENERAL EXCAVATION		
	25	PREPARE AND GROUT FOUNDATION		
	26	CUT-OFF WALL SHEET PILING		
	29	EARTH EMBANKMENT		
	31	ROCK FILL		
		SADDLE DAMS 1, 2, AND 3 EARTH FILL		
DAM CONSTRUCTION – COFFERDAM	1	COFFERDAM 1-LEFT BANK		
	1A	COFFERDAM 2-RIGHT BANK		
	1B	COFFERDAM 2A-MIDDLE OF RIVER		
	19	COFFERDAM REMOVAL		
	1F	CLOSURE		
DAM CONSTRUCTION – FOUNDATION EXCAVATION	3	EARTH EXCAVATION-DAM AND SPILLWAY		
	3A	EARTH EXCAVATION-POWERHOUSE		
	4	ROCK EXCAVATION-DAM AND SPILLWAY		
	4A	ROCK EXCAVATION-POWERHOUSE		
	4B	ROCK EXCAVATION-TAILRACE		
	5	PREPARE FOUNDATION-DRILLING AND GROUTING		
	30	EXCAVATION AND FILL-SUBSTATION SWITCHYARD		
DAM CONSTRUCTION – CONCRETE	6	CONCRETE-SPILLWAY AND BULKHEAD MASS		
	7	CONCRETE-APRON		
	7A	CONCRETE-PIERS, WALLS, MISC		
	7B	CONCRETE-CLOSURE BLOCKS		
	6	CONCRETE-POWERHOUSE & SER. BAY TO CRANE RAIL		
	7	CONCRETE-ELECTRIC BAY TO EL 982.0		
	7C	CONCRETE AND INTERIOR WORK		
	7D	CONCRETE-SUBSTATION SWITCHYARD FOUNDATIONS		
DAM CONSTRUCTION – INSTALLATION EMBEDDED PARTS	11	REGULATING SLUICE LINERS		
	11A	SLUICE STOPLOG SEATS AND GUIDES		
	12	PENSTOCKS		
	12A	INTAKE GATE FRAMES AND GUIDES		
	12B	INTAKE TRASH RACKS		
	13	SPILLWAY GATE ANCHORAGES		
	14	DRAFT TUBE GATE GUIDES & PIER NOSINGS		
DAM CONSTRUCTION – INSTALLATION GATES AND OPERATING MACHINERY	43	GATES-INTAKE		
	45	GATES-SLUICE		
	42	GATES-SPILLWAY		
	44	GATES-DRAFT TUBE		
	47	SPILLWAY GATE HOISTS		
	48	SLUICE TRASH RACKS		
	46	SPILLWAY STRUCTURAL STEEL DECK		
	49	INTAKE GATE HOISTS		
DAM CONSTRUCTION – POWERHOUSE	71	TURBINE EMBEDDED PARTS-DRAFT TUBE & SCROLL CASE		
	73	TURBINES & GOVERNORS		
	74	GENERATORS AND ELECTRICAL EQUIPMENT		
	76	HYDRAULIC EQUIPMENT, TANKS, PIPING, ETC.		
	77	POWERHOUSE-CRANE		
	78	POWERHOUSE ACCESSORIES		
	72	POWERHOUSE STRUCTURAL STEEL		
	75	AUTOMATIC ELECTRIC ELEVATOR		
	79	MAIN TRANSFORMERS		
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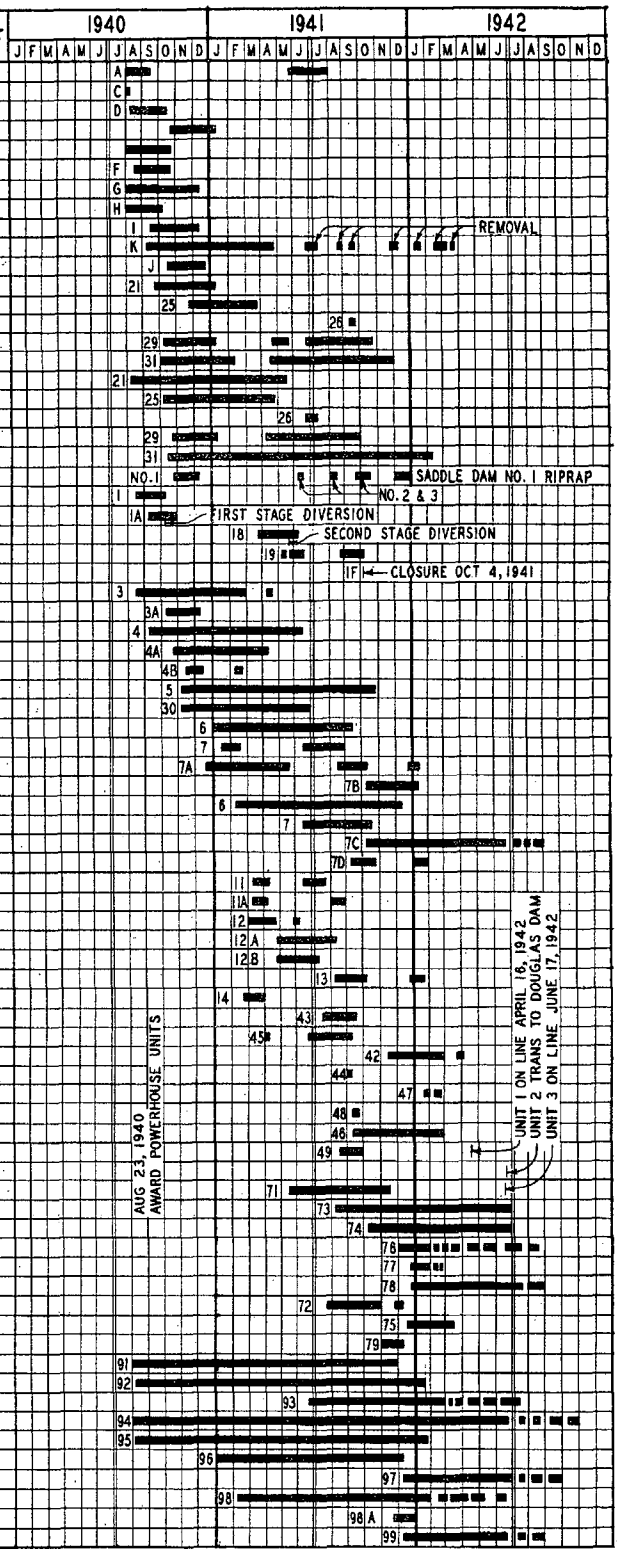

CONSTRUCTION SCHEDULE

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TENNESSEE VALLEY AUTHORITY
RIVER SYSTEM OPERATIONS & ENVIRONMENT
RIVER OPERATIONS

CHEROKEE DAM

SPILLWAY AND SLUICE DISCHARGE TABLES

MARCH 1999

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PART 1

SPILLWAY DISCHARGE TABLES

MARCH 1999

INSTRUCTIONS FOR USE OF TABLES

1. Tables Update

These tables supersede the tables dated August 1977. The tables were revised to account for changes in gate openings produced by reversing the ends of the gate lifting chains and to increase the maximum headwater elevation covered in the tables from 1076 feet to 1080 feet. The computer code SPILLQ generated the tabulated discharges.

Whenever the gate lifting chains are replaced or their ends are reversed, the gate opening indicators must be reset, the opening heights under the spillway gates at every indicator position must be re-measured, and the spillway tables must be re-computed. As described below, the spillway gates at Cherokee Dam are set by "dogging" the gate lifting chains at discrete positions marked by indicator pointers. When the chains are replaced, or the ends of the chains are reversed, the opening heights under the gates change for every indicator position and discharges computed assuming the previous opening heights are no longer correct. The gate openings on which these tables are based were measured in 1996 and 1998.

2. Purpose of Tables

These tables provide a means for setting required spillway discharges and for determining the discharge when a specific arrangement of gates is in use. The tabulated discharges are based on test results from scale models.

The specific gate arrangements in the tables were determined by considering erosion data obtained from spillway model studies together with incremental discharge values required for satisfactory spillway operation.

3. Range of Tables

The tables cover a discharge range from 0 to 282,400 cubic feet per second. Headwater elevations range from 1043 feet to 1080 feet.

4. Arrangement of Tables

The tables show spillway discharges in cubic feet per second. Headwater elevations for each 0.1 foot of headwater elevation are shown at the top of each column. The headwater range is shown at the bottom of each page.

The discharge is tabulated under the headwater elevations for specific arrangements of gate openings, which are indicated by number in the left and right columns of each page. The numbered arrangements are defined in the table of Spillway Gate Arrangements on page 5. Reference to this table and to the drawing showing the location of the gates on page 4 will determine the gate opening to which each gate is to be set for any particular discharge given in the tables.

5. Discharge Intervals

The tables have been prepared so that the incremental discharge between the tabulated values for consecutive gate arrangements is generally less than 5 percent of the tabulated discharge. The incremental discharge between tabulated values of consecutive headwater elevations is generally less than 1 percent. These increments are exceeded in some cases near the extreme ends of the tables where operation is relatively infrequent. In general it is possible to set any required discharge within 2-1/2 percent and to know the actual discharge for any given set of conditions within 1 percent. These tolerances are considered acceptable and therefore it will not be necessary to interpolate between values given in these tables.

When the exact headwater elevation does not appear in the tables, the discharge for the headwater elevation closest to it should be used. For example, the column headed 1051.2 should be used for actual headwater elevations between 1051.15 feet and 1051.24 feet inclusive. When the actual headwater elevation is exactly halfway between tabular values, the larger value is used.

6. Raising and Lowering Gates

The gates are raised and lowered by traveling hoists that lift the gates by chains attached to each end of the gates. Gate openings are set by dogging each chain by means of a dogging arrangement located just below the deck of the dam. Fastened to the dogging device is a gate opening indicator pointer that revolves as the gate is raised or lowered. This indicator pointer can be observed from either end of the traveling hoist. Gate opening positions have been marked on the gate opening indicator dials and correspond to the openings described in the tables of Spillway Gate Arrangements on page 5. Gate opening indicator readings do not represent gate opening in feet but only provide a gate opening position which will give the desired discharge when used with the table of Spillway Gate Arrangements. Gate opening indicator readings cannot be interchanged between gates since a given indicator reading on one gate will not necessarily give the same discharge as the same indicator reading on another gate.

7. Special Instruction – Preventing Flow Over Top of Spillway Gates When Headwater Elevation is Above 1075 feet

If the headwater elevation exceeds 1075 feet (actually, 1074.8 feet to provide a 0.2-foot margin of safety) the spillway gates must be set to one of the gate arrangements listed in the tables to prevent flow over the tops of the gates. The minimum gate openings are those corresponding to the lowest numbered gate arrangement for which a discharge value is provided in the tables.

8. Use of Tables

The tables can be used in two ways: (1) to determine the arrangement of gates needed to pass a required discharge at a given headwater elevation, and (2) to determine the discharge for a given arrangement of gates and headwater elevation.

Example 1 -- What gate arrangement is necessary to pass a discharge of 46,000 cubic feet per second with the headwater at elevation 1055.78 feet?

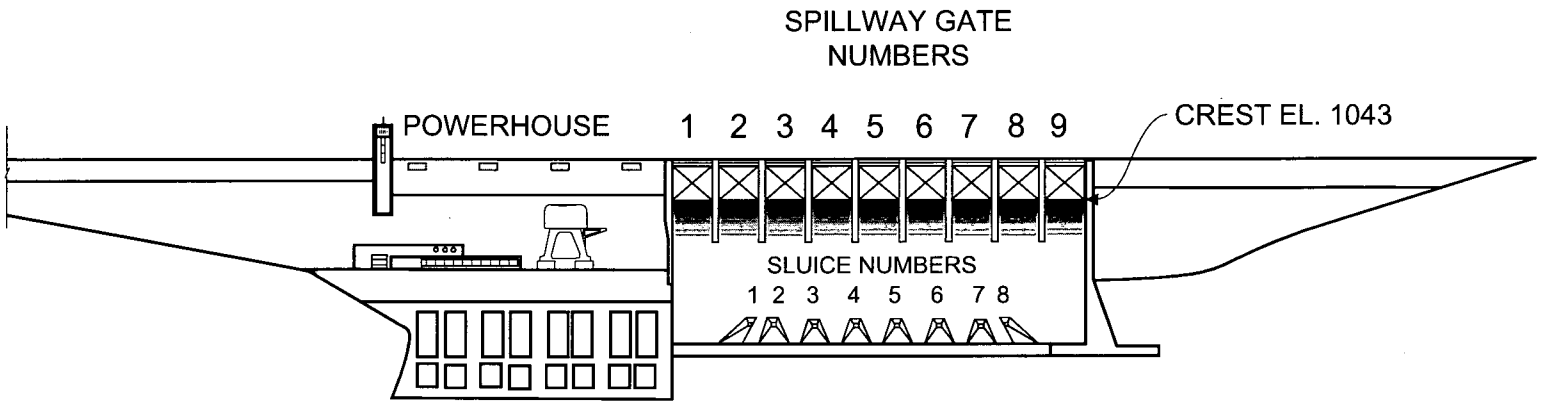
The first step is to find the table in which the headwater elevation appears. Referring to the contents page, we find that headwater elevations between 1055 feet and 1057 feet are found on page 14 (and continued on page 15). The headwater elevation closest to 1055.78 feet is 1055.8 feet. In the column headed 1055.8 the discharge nearest to the required 46,000 cubic feet per second is 45,570 cubic feet per second, located at the bottom of the page. By tracing the horizontal line in which 45,570 cubic feet per second appears, to either side of the page, we find that gate arrangement 45 is the one for producing the discharge closest to 46,000 cubic feet per second at headwater elevation 1055.78 feet. Referring to page 5 it is found that the gates should be set with the gate opening indicators reading as follows: Gates 1, 2, 3, 4, 5, 6, 7, 8 and 9 at indicator reading 14.

After all the gates are set, changes in the headwater elevation may require changes in the gate arrangement to maintain the desired discharge. For example, if the headwater should fall to 1055.42 feet, the discharge will be found in the column headed 1055.4. In this column the discharge closest to 46,000 cubic feet per second is 45,810 cubic feet per second for gate arrangement 46, which is found on page 15. To change to gate arrangement 46 from gate arrangement 45, gate 7 would be opened to an indicator reading of 18.

Example 2 -- Suppose the operating records show that the headwater is at elevation 1063.25 feet, and gate arrangement 40 is in use. The headwater is found on page 22, which is marked "Headwater 1063 to 1065." The elevation given is exactly halfway between elevation 1063.2 feet and 1063.3 feet. The larger value, 1063.3 feet, is used. In the column headed 1063.3, opposite gate arrangement 40, the discharge is found to be 52,090 cubic feet per second.

CHEROKEE DAM

LOCATION OF SPILLWAY AND SLUICE GATES



DOWNSTREAM ELEVATION

CHEROKEE DAM

SPILLWAY GATE ARRANGEMENTS

Arrangement Number	Gate Number								
	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	2	0	0
2	0	0	2	0	0	0	2	0	0
3	0	0	2	0	2	0	2	0	0
4	0	0	2	0	2	0	2	0	2
5	2	0	2	0	2	0	2	0	2
6	2	0	2	0	2	2	2	0	2
7	2	0	2	2	2	2	2	0	2
8	2	0	2	2	2	2	2	2	2
9	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	4	2	2
11	2	2	4	2	2	2	4	2	2
12	2	2	4	2	4	2	4	2	2
13	2	2	4	2	4	2	4	2	4
14	4	2	4	2	4	2	4	2	4
15	4	2	4	2	4	4	4	2	4
16	4	2	4	4	4	4	4	2	4
17	4	2	4	4	4	4	4	4	4
18	4	4	4	4	4	4	4	4	4
19	4	4	4	4	4	4	6	4	4
20	4	4	6	4	4	4	6	4	4
21	4	4	6	4	6	4	6	4	4
22	4	4	6	4	6	4	6	4	6
23	6	4	6	4	6	4	6	4	6
24	6	4	6	4	6	6	6	4	6
25	6	4	6	6	6	6	6	4	6
26	6	4	6	6	6	6	6	6	6
27	6	6	6	6	6	6	6	6	6
28	6	6	6	6	6	6	10	6	6
29	6	6	10	6	6	6	10	6	6
30	6	6	10	6	10	6	10	6	6

Arrangement Number	Gate Number								
	1	2	3	4	5	6	7	8	9
31	6	6	10	6	10	6	10	6	10
32	10	6	10	6	10	6	10	6	10
33	10	6	10	6	10	10	10	6	10
34	10	6	10	10	10	10	10	6	10
35	10	6	10	10	10	10	10	10	10
36	10	10	10	10	10	10	10	10	10
37	10	10	10	10	10	10	14	10	10
38	10	10	14	10	10	10	14	10	10
39	10	10	14	10	14	10	14	10	10
40	10	10	14	10	14	10	14	10	14
41	14	10	14	10	14	10	14	10	14
42	14	10	14	10	14	14	14	10	14
43	14	10	14	14	14	14	14	10	14
44	14	10	14	14	14	14	14	14	14
45	14	14	14	14	14	14	14	14	14
46	14	14	14	14	14	14	18	14	14
47	14	14	18	14	14	14	18	14	14
48	14	14	18	14	18	14	18	14	14
49	14	14	18	14	18	14	18	14	18
50	18	14	18	14	18	14	18	14	18
51	18	14	18	14	18	18	18	14	18
52	18	14	18	18	18	18	18	14	18
53	18	14	18	18	18	18	18	18	18
54	18	18	18	18	18	18	18	18	18
55	18	18	18	18	18	18	22	18	18
56	18	18	22	18	18	18	22	18	18
57	18	18	22	18	22	18	22	18	18
58	18	18	22	18	22	18	22	18	22
59	22	18	22	18	22	18	22	18	22
60	22	18	22	18	22	22	22	18	22

Arrangement Number	Gate Number								
	1	2	3	4	5	6	7	8	9
61	22	18	22	22	22	22	22	18	22
62	22	18	22	22	22	22	22	22	22
63	22	22	22	22	22	22	22	22	22
64	22	22	22	22	22	22	26	22	22
65	22	22	26	22	22	22	26	22	22
66	22	22	26	22	26	22	26	22	22
67	22	22	26	22	26	22	26	22	26
68	26	22	26	22	26	22	26	22	26
69	26	22	26	22	26	26	26	22	26
70	26	22	26	26	26	26	26	22	26
71	26	22	26	26	26	26	26	26	26
72	26	26	26	26	26	26	26	26	26
73	26	26	26	26	26	26	UP	26	26
74	26	26	UP	26	26	26	UP	26	26
75	26	26	UP	26	UP	26	UP	26	26
76	26	26	UP	26	UP	26	UP	26	UP
77	UP	26	UP	26	UP	26	UP	26	UP
78	UP	26	UP	26	UP	UP	UP	26	UP
79	UP	26	UP	UP	UP	UP	UP	26	UP
80	UP	26	UP	UP	UP	UP	UP	UP	UP
81	UP	UP	UP	UP	UP	UP	UP	UP	UP

GATE OPENINGS

Figures in columns under each gate number refer to gate opening indicator readings.

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1043.0	1043.1	1043.2	1043.3	1043.4	1043.5	1043.6	1043.7	1043.8	1043.9	1044.0	1044.1	1044.2	1044.3	1044.4	1044.5	1044.6	1044.7	1044.8	1044.9	1045.0	
1	0	5	10	20	30	45	60	75	90	110	130	140	170	190	210	230	250	250	250	250	250	1
2	0	10	20	40	65	90	120	150	180	210	250	290	330	370	420	460	510	530	540	530	530	2
3	0	10	35	60	95	130	170	220	270	320	380	430	500	560	630	700	760	800	800	800	790	3
4	0	15	45	80	130	180	230	290	360	430	500	580	660	750	840	930	1, 020	1, 070	1, 070	1, 060	1, 050	4
5	0	20	55	100	160	220	290	370	450	530	630	720	830	930	1, 040	1, 160	1, 270	1, 310	1, 320	1, 310	1, 290	5
6	0	25	65	120	190	260	350	440	540	640	750	870	990	1, 120	1, 250	1, 390	1, 520	1, 590	1, 590	1, 580	1, 560	6
7	0	25	80	140	220	310	410	510	630	750	880	1, 020	1, 160	1, 310	1, 460	1, 630	1, 780	1, 850	1, 850	1, 830	1, 820	7
8	0	30	90	160	250	350	460	590	720	860	1, 000	1, 160	1, 320	1, 500	1, 670	1, 860	2, 040	2, 120	2, 120	2, 110	2, 090	8
9	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 300	2, 400	2, 400	2, 380	2, 360	9
10	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 300	2, 430	2, 450	2, 470	2, 470	10
11	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 300	2, 430	2, 470	2, 510	2, 550	11
12	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 300	2, 440	2, 510	2, 580	2, 650	12
13	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 300	2, 450	2, 550	2, 650	2, 740	13
14	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 490	2, 610	2, 740	2, 860	14
15	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 500	2, 650	2, 800	2, 960	15
16	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 520	2, 700	2, 880	3, 070	16
17	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 530	2, 730	2, 940	3, 160	17
18	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 530	2, 760	3, 000	3, 250	18
19	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 530	2, 760	3, 000	3, 250	19
20	0	35	100	180	280	400	520	660	810	960	1, 130	1, 310	1, 490	1, 680	1, 880	2, 090	2, 310	2, 530	2, 760	3, 000	3, 250	20

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1045.0	1045.1	1045.2	1045.3	1045.4	1045.5	1045.6	1045.7	1045.8	1045.9	1046.0	1046.1	1046.2	1046.3	1046.4	1046.5	1046.6	1046.7	1046.8	1046.9	1047.0	
1	250	240	250	260	260	270	270	280	280	290	290	300	300	310	310	320	320	330	330	330	340	1
2	530	520	520	530	540	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	2
3	790	780	780	800	820	830	850	860	880	900	910	930	940	960	970	990	1,000	1,020	1,030	1,050	1,060	3
4	1,050	1,040	1,050	1,070	1,090	1,110	1,130	1,150	1,180	1,200	1,220	1,240	1,260	1,280	1,300	1,320	1,340	1,360	1,380	1,400	1,410	4
5	1,290	1,280	1,290	1,320	1,350	1,370	1,400	1,430	1,450	1,480	1,510	1,530	1,560	1,580	1,610	1,630	1,660	1,680	1,700	1,730	1,750	5
6	1,560	1,550	1,560	1,590	1,620	1,650	1,690	1,720	1,750	1,780	1,820	1,850	1,880	1,910	1,940	1,970	2,000	2,020	2,050	2,080	2,110	6
7	1,820	1,800	1,810	1,850	1,890	1,930	1,960	2,000	2,040	2,080	2,110	2,150	2,190	2,220	2,260	2,290	2,320	2,360	2,390	2,420	2,450	7
8	2,090	2,070	2,080	2,120	2,170	2,210	2,250	2,300	2,340	2,380	2,430	2,470	2,510	2,550	2,590	2,630	2,670	2,700	2,740	2,780	2,820	8
9	2,360	2,330	2,350	2,390	2,450	2,490	2,540	2,590	2,640	2,690	2,740	2,780	2,830	2,880	2,920	2,970	3,010	3,050	3,090	3,140	3,180	9
10	2,470	2,480	2,510	2,590	2,660	2,740	2,810	2,890	2,960	3,040	3,120	3,190	3,270	3,350	3,420	3,500	3,580	3,660	3,730	3,760	3,790	10
11	2,550	2,590	2,650	2,750	2,850	2,950	3,050	3,160	3,260	3,360	3,470	3,580	3,680	3,790	3,900	4,010	4,120	4,230	4,340	4,410	4,420	11
12	2,650	2,720	2,810	2,930	3,060	3,180	3,310	3,440	3,570	3,700	3,840	3,970	4,110	4,250	4,390	4,530	4,670	4,820	4,960	5,040	5,050	12
13	2,740	2,840	2,970	3,110	3,260	3,410	3,560	3,720	3,880	4,040	4,200	4,370	4,530	4,700	4,870	5,050	5,220	5,400	5,580	5,680	5,670	13
14	2,860	2,990	3,130	3,310	3,480	3,650	3,830	4,020	4,200	4,390	4,580	4,780	4,980	5,180	5,380	5,580	5,790	6,000	6,220	6,300	6,280	14
15	2,960	3,120	3,290	3,480	3,680	3,880	4,090	4,300	4,510	4,730	4,950	5,170	5,400	5,630	5,870	6,100	6,350	6,590	6,840	6,940	6,910	15
16	3,070	3,250	3,450	3,670	3,890	4,120	4,350	4,590	4,830	5,070	5,320	5,580	5,830	6,100	6,360	6,630	6,910	7,190	7,470	7,580	7,530	16
17	3,160	3,380	3,600	3,850	4,090	4,340	4,600	4,860	5,130	5,410	5,680	5,970	6,260	6,550	6,850	7,150	7,460	7,770	8,090	8,210	8,150	17
18	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,850	8,770	18
19	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,890	8,870	19
20	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,890	8,910	20
21	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,910	8,980	21
22	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,930	9,050	22
23	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,980	9,150	23
24	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	8,990	9,210	24
25	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,030	9,290	25
26	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,040	9,360	26
27	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,060	9,420	27
28	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,060	9,420	28
29	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,060	9,420	29
30	3,250	3,500	3,760	4,020	4,290	4,570	4,850	5,140	5,440	5,740	6,050	6,360	6,680	7,000	7,330	7,670	8,010	8,350	8,700	9,060	9,420	30

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1047.0	1047.1	1047.2	1047.3	1047.4	1047.5	1047.6	1047.7	1047.8	1047.9	1048.0	1048.1	1048.2	1048.3	1048.4	1048.5	1048.6	1048.7	1048.8	1048.9	1049.0	
1	340	340	350	350	360	360	360	370	370	380	380	380	390	390	390	400	400	410	410	410	420	1
2	710	720	730	740	740	750	760	770	780	790	790	800	810	820	830	830	840	850	860	860	870	2
3	1,060	1,070	1,090	1,100	1,110	1,130	1,140	1,150	1,160	1,180	1,190	1,200	1,210	1,230	1,240	1,250	1,260	1,270	1,280	1,290	1,310	3
4	1,410	1,430	1,450	1,470	1,490	1,500	1,520	1,540	1,550	1,570	1,590	1,600	1,620	1,630	1,650	1,670	1,680	1,700	1,710	1,730	1,740	4
5	1,750	1,770	1,790	1,820	1,840	1,860	1,880	1,900	1,920	1,940	1,960	1,980	2,000	2,020	2,040	2,060	2,080	2,100	2,120	2,130	2,150	5
6	2,110	2,130	2,160	2,190	2,210	2,240	2,260	2,290	2,310	2,340	2,360	2,390	2,410	2,440	2,460	2,480	2,500	2,530	2,550	2,570	2,590	6
7	2,450	2,490	2,520	2,550	2,580	2,610	2,640	2,670	2,700	2,720	2,750	2,780	2,810	2,840	2,860	2,890	2,920	2,940	2,970	3,000	3,020	7
8	2,820	2,850	2,890	2,920	2,960	2,990	3,030	3,060	3,090	3,120	3,160	3,190	3,220	3,250	3,280	3,310	3,350	3,380	3,410	3,440	3,470	8
9	3,180	3,220	3,260	3,300	3,340	3,380	3,410	3,450	3,490	3,530	3,560	3,600	3,640	3,670	3,710	3,740	3,780	3,810	3,840	3,880	3,910	9
10	3,790	3,820	3,840	3,870	3,910	3,950	3,990	4,030	4,070	4,120	4,160	4,200	4,250	4,290	4,330	4,370	4,420	4,460	4,500	4,540	4,580	10
11	4,420	4,440	4,450	4,460	4,480	4,530	4,570	4,610	4,650	4,700	4,750	4,800	4,850	4,900	4,950	5,000	5,050	5,100	5,140	5,190	5,240	11
12	5,050	5,050	5,040	5,040	5,060	5,100	5,150	5,190	5,240	5,290	5,350	5,400	5,460	5,520	5,580	5,630	5,690	5,740	5,790	5,850	5,900	12
13	5,670	5,650	5,640	5,610	5,620	5,670	5,720	5,770	5,820	5,870	5,940	6,000	6,070	6,130	6,190	6,260	6,320	6,380	6,440	6,500	6,560	13
14	6,280	6,250	6,220	6,180	6,190	6,250	6,300	6,350	6,400	6,460	6,530	6,610	6,680	6,750	6,820	6,890	6,960	7,020	7,090	7,160	7,230	14
15	6,910	6,870	6,820	6,760	6,770	6,820	6,880	6,930	6,980	7,040	7,130	7,210	7,290	7,360	7,440	7,520	7,590	7,670	7,740	7,820	7,890	15
16	7,530	7,470	7,410	7,340	7,340	7,400	7,460	7,510	7,560	7,640	7,720	7,810	7,900	7,980	8,070	8,150	8,230	8,320	8,400	8,480	8,560	16
17	8,150	8,090	8,010	7,920	7,910	7,980	8,040	8,090	8,150	8,220	8,320	8,410	8,510	8,600	8,690	8,780	8,870	8,960	9,040	9,130	9,220	17
18	8,770	8,690	8,600	8,500	8,480	8,550	8,610	8,670	8,720	8,800	8,910	9,010	9,110	9,210	9,310	9,400	9,500	9,590	9,690	9,780	9,880	18
19	8,870	8,840	8,800	8,750	8,770	8,870	8,970	9,060	9,160	9,270	9,410	9,550	9,680	9,820	9,960	10,090	10,180	10,270	10,360	10,450	10,540	19
20	8,910	8,930	8,940	8,950	9,020	9,160	9,290	9,430	9,560	9,710	9,880	10,060	10,230	10,400	10,570	10,750	10,880	10,970	11,050	11,130	11,220	20
21	8,980	9,050	9,110	9,170	9,290	9,460	9,640	9,810	9,980	10,170	10,370	10,580	10,790	11,000	11,210	11,420	11,570	11,650	11,730	11,800	11,880	21
22	9,050	9,170	9,280	9,390	9,560	9,770	9,970	10,180	10,390	10,620	10,860	11,100	11,340	11,590	11,830	12,080	12,260	12,340	12,410	12,480	12,540	22
23	9,150	9,310	9,480	9,640	9,840	10,090	10,330	10,580	10,830	11,090	11,360	11,640	11,920	12,200	12,480	12,760	12,930	13,000	13,070	13,130	13,190	23
24	9,210	9,430	9,650	9,860	10,110	10,390	10,670	10,960	11,240	11,540	11,850	12,160	12,470	12,790	13,110	13,430	13,620	13,690	13,750	13,800	13,850	24
25	9,290	9,560	9,830	10,100	10,390	10,700	11,020	11,340	11,670	12,000	12,340	12,690	13,040	13,390	13,750	14,110	14,310	14,370	14,420	14,470	14,510	25
26	9,360	9,670	9,990	10,320	10,650	11,010	11,360	11,720	12,080	12,450	12,830	13,210	13,600	13,990	14,380	14,770	14,990	15,060	15,100	15,140	15,180	26
27	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,440	15,690	15,740	15,780	15,820	15,850	27
28	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,440	15,730	15,830	15,920	16,000	16,070	28
29	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,440	15,730	15,870	16,000	16,120	16,250	29
30	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,440	15,750	15,930	16,110	16,280	16,450	30
31	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,440	15,760	15,990	16,210	16,430	16,650	31
32	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,810	16,080	16,350	16,610	16,880	32
33	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,830	16,140	16,450	16,760	17,080	33
34	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,860	16,210	16,570	16,930	17,290	34
35	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,870	16,270	16,680	17,080	17,490	35
36	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,890	16,330	16,780	17,230	17,690	36
37	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,890	16,330	16,780	17,230	17,690	37
38	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,890	16,330	16,780	17,230	17,690	38
39	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,890	16,330	16,780	17,230	17,690	39
40	9,420	9,790	10,160	10,540	10,920	11,310	11,700	12,100	12,500	12,910	13,320	13,740	14,160	14,580	15,010	15,450	15,890	16,330	16,780	17,230	17,690	40

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1049.0	1049.1	1049.2	1049.3	1049.4	1049.5	1049.6	1049.7	1049.8	1049.9	1050.0	1050.1	1050.2	1050.3	1050.4	1050.5	1050.6	1050.7	1050.8	1050.9	1051.0	
1	420	420	420	430	430	430	440	440	440	450	450	450	460	460	460	470	470	470	480	480	480	1
2	870	880	890	890	900	910	920	920	930	940	940	950	960	960	970	980	980	990	1,000	1,000	1,010	2
3	1,310	1,320	1,330	1,340	1,350	1,360	1,370	1,380	1,390	1,400	1,410	1,420	1,430	1,440	1,450	1,460	1,470	1,480	1,490	1,500	1,510	3
4	1,740	1,760	1,770	1,790	1,800	1,810	1,830	1,840	1,860	1,870	1,880	1,900	1,910	1,920	1,940	1,950	1,960	1,980	1,990	2,000	2,020	4
5	2,150	2,170	2,190	2,210	2,220	2,240	2,260	2,280	2,290	2,310	2,330	2,350	2,360	2,380	2,400	2,410	2,430	2,440	2,460	2,480	2,490	5
6	2,590	2,620	2,640	2,660	2,680	2,700	2,720	2,740	2,770	2,790	2,810	2,830	2,850	2,870	2,890	2,910	2,930	2,950	2,970	2,980	3,000	6
7	3,020	3,050	3,070	3,100	3,120	3,150	3,170	3,200	3,220	3,240	3,270	3,290	3,310	3,340	3,360	3,380	3,410	3,430	3,450	3,470	3,500	7
8	3,470	3,490	3,520	3,550	3,580	3,610	3,640	3,670	3,690	3,720	3,750	3,780	3,800	3,830	3,860	3,880	3,910	3,930	3,960	3,990	4,010	8
9	3,910	3,940	3,980	4,010	4,040	4,070	4,110	4,140	4,170	4,200	4,230	4,260	4,290	4,320	4,350	4,380	4,410	4,440	4,470	4,500	4,530	9
10	4,580	4,620	4,660	4,700	4,740	4,780	4,810	4,850	4,890	4,930	4,970	5,000	5,040	5,080	5,110	5,150	5,180	5,220	5,260	5,290	5,330	10
11	5,240	5,290	5,330	5,380	5,430	5,470	5,520	5,560	5,610	5,650	5,690	5,740	5,780	5,820	5,870	5,910	5,950	5,990	6,040	6,080	6,120	11
12	5,900	5,960	6,010	6,070	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	6,580	6,630	6,680	6,720	6,770	6,820	6,870	6,910	12
13	6,560	6,630	6,690	6,750	6,810	6,870	6,930	6,980	7,040	7,100	7,160	7,210	7,270	7,330	7,380	7,440	7,490	7,540	7,600	7,650	7,700	13
14	7,230	7,300	7,370	7,430	7,500	7,570	7,630	7,700	7,760	7,830	7,890	7,950	8,020	8,080	8,140	8,200	8,260	8,320	8,380	8,440	8,500	14
15	7,890	7,970	8,040	8,120	8,190	8,270	8,340	8,410	8,480	8,550	8,620	8,690	8,760	8,830	8,900	8,970	9,030	9,100	9,170	9,230	9,300	15
16	8,560	8,640	8,730	8,810	8,890	8,970	9,050	9,130	9,210	9,280	9,360	9,440	9,510	9,590	9,660	9,740	9,810	9,880	9,950	10,030	10,100	16
17	9,220	9,310	9,400	9,490	9,580	9,670	9,750	9,840	9,920	10,010	10,090	10,170	10,260	10,340	10,420	10,500	10,580	10,660	10,730	10,810	10,890	17
18	9,880	9,980	10,080	10,170	10,270	10,360	10,450	10,550	10,640	10,730	10,820	10,910	10,990	11,080	11,170	11,260	11,340	11,430	11,510	11,590	11,680	18
19	10,540	10,630	10,730	10,820	10,910	11,000	11,100	11,190	11,280	11,380	11,470	11,560	11,650	11,740	11,830	11,910	12,010	12,100	12,190	12,280	12,370	19
20	11,220	11,300	11,390	11,480	11,570	11,660	11,750	11,840	11,940	12,030	12,130	12,220	12,310	12,400	12,490	12,580	12,670	12,770	12,870	12,960	13,060	20
21	11,880	11,960	12,050	12,130	12,220	12,300	12,390	12,490	12,590	12,680	12,780	12,870	12,970	13,060	13,150	13,240	13,330	13,440	13,540	13,650	13,750	21
22	12,540	12,620	12,700	12,790	12,870	12,940	13,030	13,130	13,230	13,330	13,430	13,520	13,620	13,710	13,800	13,890	13,990	14,100	14,210	14,330	14,440	22
23	13,190	13,260	13,340	13,420	13,500	13,570	13,660	13,770	13,870	13,970	14,070	14,170	14,260	14,360	14,450	14,540	14,650	14,760	14,880	15,000	15,120	23
24	13,850	13,920	14,000	14,070	14,150	14,220	14,310	14,410	14,520	14,620	14,720	14,820	14,920	15,010	15,110	15,200	15,310	15,430	15,560	15,680	15,810	24
25	14,510	14,570	14,650	14,720	14,790	14,860	14,950	15,060	15,160	15,270	15,370	15,470	15,570	15,670	15,760	15,850	15,970	16,100	16,240	16,370	16,500	25
26	15,180	15,230	15,310	15,380	15,440	15,500	15,590	15,700	15,810	15,920	16,020	16,120	16,220	16,320	16,420	16,510	16,630	16,770	16,910	17,050	17,190	26
27	15,850	15,900	15,970	16,030	16,090	16,150	16,240	16,350	16,460	16,570	16,680	16,780	16,880	16,980	17,080	17,170	17,290	17,440	17,590	17,730	17,880	27
28	16,070	16,170	16,280	16,390	16,500	16,610	16,730	16,890	17,040	17,200	17,350	17,490	17,640	17,780	17,890	17,980	18,100	18,240	18,380	18,520	18,660	28
29	16,250	16,390	16,550	16,700	16,860	17,010	17,180	17,380	17,580	17,770	17,970	18,160	18,350	18,540	18,700	18,810	18,930	19,060	19,190	19,320	19,460	29
30	16,450	16,640	16,840	17,040	17,240	17,440	17,660	17,900	18,140	18,380	18,620	18,850	19,090	19,330	19,520	19,630	19,740	19,870	19,990	20,120	20,250	30
31	16,650	16,880	17,130	17,370	17,620	17,860	18,130	18,410	18,690	18,970	19,250	19,530	19,810	20,100	20,320	20,440	20,540	20,660	20,780	20,900	21,030	31
32	16,880	17,150	17,440	17,740	18,030	18,320	18,620	18,940	19,270	19,590	19,910	20,240	20,570	20,900	21,120	21,240	21,340	21,450	21,560	21,670	21,800	32
33	17,080	17,400	17,730	18,070	18,410	18,750	19,100	19,460	19,820	20,190	20,560	20,930	21,300	21,680	21,940	22,060	22,160	22,260	22,360	22,470	22,590	33
34	17,290	17,660	18,040	18,420	18,800	19,190	19,580	19,990	20,390	20,800	21,220	21,630	22,050	22,470	22,760	22,870	22,970	23,060	23,160	23,260	23,370	34
35	17,490	17,910	18,330	18,760	19,190	19,620	20,060	20,500	20,950	21,410	21,860	22,320	22,790	23,250	23,580	23,690	23,780	23,870	23,960	24,050	24,160	35
36	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,400	24,510	24,600	24,680	24,760	24,850	24,950	36
37	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,440	24,600	24,740	24,870	25,000	25,130	25,290	37
38	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,440	24,630	24,810	24,990	25,170	25,360	25,560	38
39	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,450	24,690	24,920	25,150	25,380	25,620	25,870	39
40	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,460	24,740	25,020	25,310	25,580	25,870	26,170	40
41	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,500	24,830	25,160	25,490	25,820	26,160	26,500	41
42	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,510	24,890	25,270	25,650	26,030	26,410	26,810	42
43	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,530	24,960	25,390	25,820	26,250	26,690	27,130	43
44	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,540	25,020	25,490	25,970	26,450	26,940	27,430	44
45	17,690	18,150	18,620	19,090	19,560	20,040	20,530	21,020	21,510	22,000	22,500	23,010	23,520	24,030	24,550	25,070	25,600	26,120	26,660	27,200	27,740	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1051.0	1051.1	1051.2	1051.3	1051.4	1051.5	1051.6	1051.7	1051.8	1051.9	1052.0	1052.1	1052.2	1052.3	1052.4	1052.5	1052.6	1052.7	1052.8	1052.9	1053.0	
1	480	480	490	490	490	500	500	500	510	510	510	510	520	520	520	530	530	530	530	540	540	1
2	1,010	1,020	1,020	1,030	1,030	1,040	1,050	1,050	1,060	1,070	1,070	1,080	1,080	1,090	1,100	1,100	1,110	1,110	1,120	1,120	1,130	2
3	1,510	1,520	1,530	1,540	1,550	1,560	1,570	1,580	1,590	1,590	1,600	1,610	1,620	1,630	1,640	1,650	1,660	1,670	1,670	1,680	1,690	3
4	2,020	2,030	2,040	2,050	2,070	2,080	2,090	2,100	2,120	2,130	2,140	2,150	2,160	2,180	2,190	2,200	2,210	2,220	2,230	2,250	2,260	4
5	2,490	2,510	2,520	2,540	2,550	2,570	2,590	2,600	2,620	2,630	2,650	2,660	2,680	2,690	2,700	2,720	2,730	2,750	2,760	2,780	2,790	5
6	3,000	3,020	3,040	3,060	3,080	3,100	3,120	3,130	3,150	3,170	3,190	3,210	3,220	3,240	3,260	3,280	3,290	3,310	3,330	3,350	3,360	6
7	3,500	3,520	3,540	3,560	3,580	3,610	3,630	3,650	3,670	3,690	3,710	3,730	3,750	3,770	3,790	3,820	3,840	3,860	3,880	3,900	3,920	7
8	4,010	4,040	4,060	4,090	4,110	4,140	4,160	4,190	4,210	4,230	4,260	4,280	4,310	4,330	4,350	4,380	4,400	4,420	4,450	4,470	4,490	8
9	4,530	4,560	4,590	4,610	4,640	4,670	4,700	4,730	4,750	4,780	4,810	4,830	4,860	4,890	4,910	4,940	4,970	4,990	5,020	5,040	5,070	9
10	5,330	5,360	5,390	5,430	5,460	5,500	5,530	5,560	5,600	5,630	5,660	5,700	5,730	5,760	5,790	5,820	5,860	5,890	5,920	5,950	5,980	10
11	6,120	6,160	6,200	6,240	6,280	6,320	6,360	6,400	6,440	6,470	6,510	6,550	6,590	6,630	6,670	6,700	6,740	6,780	6,820	6,850	6,890	11
12	6,910	6,960	7,010	7,050	7,100	7,140	7,190	7,230	7,280	7,320	7,370	7,410	7,460	7,500	7,550	7,590	7,630	7,670	7,720	7,760	7,800	12
13	7,700	7,760	7,810	7,860	7,910	7,960	8,020	8,070	8,120	8,170	8,220	8,270	8,320	8,370	8,420	8,470	8,510	8,560	8,610	8,660	8,710	13
14	8,500	8,560	8,620	8,680	8,730	8,790	8,850	8,900	8,960	9,020	9,070	9,130	9,180	9,240	9,290	9,350	9,400	9,460	9,510	9,560	9,620	14
15	9,300	9,360	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,930	9,990	10,050	10,110	10,170	10,230	10,290	10,350	10,410	10,470	10,530	15
16	10,100	10,170	10,240	10,310	10,380	10,440	10,510	10,580	10,650	10,720	10,780	10,850	10,920	10,990	11,050	11,120	11,190	11,250	11,320	11,380	11,450	16
17	10,890	10,970	11,040	11,120	11,190	11,270	11,340	11,420	11,490	11,560	11,640	11,710	11,780	11,860	11,930	12,000	12,070	12,140	12,210	12,280	12,350	17
18	11,680	11,760	11,840	11,920	12,010	12,090	12,170	12,240	12,320	12,400	12,480	12,560	12,640	12,720	12,800	12,870	12,950	13,030	13,110	13,180	13,260	18
19	12,370	12,460	12,550	12,640	12,720	12,810	12,900	12,980	13,070	13,150	13,240	13,330	13,410	13,500	13,580	13,660	13,750	13,830	13,910	13,990	14,070	19
20	13,060	13,160	13,250	13,350	13,440	13,540	13,630	13,720	13,810	13,910	14,000	14,090	14,180	14,270	14,360	14,450	14,540	14,630	14,710	14,800	14,890	20
21	13,750	13,850	13,960	14,060	14,160	14,260	14,360	14,460	14,560	14,650	14,750	14,850	14,950	15,040	15,140	15,230	15,330	15,420	15,520	15,610	15,700	21
22	14,440	14,550	14,660	14,760	14,870	14,980	15,080	15,190	15,290	15,400	15,500	15,610	15,710	15,810	15,910	16,010	16,110	16,210	16,310	16,410	16,510	22
23	15,120	15,240	15,350	15,470	15,580	15,690	15,810	15,920	16,030	16,140	16,250	16,360	16,470	16,580	16,680	16,790	16,900	17,000	17,110	17,210	17,310	23
24	15,810	15,930	16,050	16,180	16,300	16,420	16,540	16,650	16,770	16,890	17,000	17,120	17,230	17,350	17,460	17,570	17,690	17,800	17,910	18,020	18,130	24
25	16,500	16,630	16,760	16,890	17,010	17,140	17,270	17,390	17,510	17,640	17,760	17,880	18,000	18,120	18,240	18,360	18,480	18,590	18,710	18,820	18,940	25
26	17,190	17,320	17,460	17,590	17,730	17,860	17,990	18,120	18,250	18,380	18,510	18,640	18,770	18,890	19,020	19,140	19,260	19,390	19,510	19,630	19,750	26
27	17,880	18,020	18,160	18,310	18,450	18,590	18,720	18,860	19,000	19,130	19,270	19,400	19,530	19,670	19,800	19,930	20,060	20,190	20,310	20,440	20,570	27
28	18,660	18,800	18,940	19,070	19,210	19,360	19,500	19,640	19,770	19,910	20,050	20,180	20,320	20,450	20,580	20,720	20,860	20,990	21,130	21,260	21,400	28
29	19,460	19,590	19,730	19,860	20,000	20,140	20,280	20,420	20,560	20,700	20,840	20,970	21,110	21,240	21,380	21,520	21,670	21,810	21,950	22,090	22,240	29
30	20,250	20,380	20,510	20,630	20,770	20,910	21,060	21,200	21,340	21,480	21,620	21,760	21,890	22,030	22,170	22,320	22,470	22,620	22,770	22,920	23,070	30
31	21,030	21,150	21,280	21,400	21,530	21,670	21,820	21,970	22,110	22,250	22,390	22,530	22,670	22,800	22,950	23,100	23,260	23,420	23,580	23,730	23,890	31
32	21,800	21,920	22,040	22,150	22,280	22,430	22,580	22,730	22,870	23,020	23,160	23,300	23,440	23,570	23,720	23,890	24,050	24,220	24,390	24,550	24,710	32
33	22,590	22,700	22,820	22,930	23,060	23,210	23,360	23,510	23,660	23,800	23,940	24,080	24,220	24,360	24,510	24,680	24,860	25,030	25,200	25,370	25,540	33
34	23,370	23,480	23,590	23,700	23,830	23,980	24,130	24,280	24,430	24,580	24,720	24,870	25,010	25,140	25,300	25,480	25,660	25,840	26,020	26,200	26,380	34
35	24,160	24,270	24,380	24,480	24,600	24,750	24,910	25,060	25,210	25,360	25,510	25,650	25,790	25,930	26,090	26,280	26,470	26,660	26,840	27,030	27,210	35
36	24,950	25,060	25,160	25,250	25,370	25,530	25,690	25,840	26,000	26,150	26,290	26,440	26,580	26,720	26,880	27,080	27,270	27,470	27,660	27,860	28,050	36
37	25,290	25,440	25,590	25,740	25,900	26,100	26,310	26,510	26,710	26,910	27,100	27,300	27,490	27,680	27,890	28,130	28,370	28,610	28,850	29,090	29,330	37
38	25,560	25,770	25,970	26,160	26,380	26,630	26,880	27,120	27,370	27,620	27,860	28,100	28,340	28,580	28,840	29,130	29,420	29,700	29,990	30,280	30,560	38
39	25,870	26,130	26,380	26,620	26,890	27,180	27,480	27,770	28,060	28,360	28,650	28,940	29,230	29,520	29,830	30,160	30,490	30,830	31,160	31,490	31,830	39
40	26,170	26,470	26,770	27,070	27,380	27,720	28,060	28,400	28,740	29,080	29,420	29,760	30,100	30,440	30,790	31,170	31,540	31,920	32,300	32,680	33,060	40
41	26,500	26,850	27,200	27,550	27,910	28,290	28,680	29,060	29,450	29,830	30,220	30,610	31,000	31,390	31,780	32,200	32,630	33,050	33,470	33,900	34,330	41
42	26,810	27,210	27,610	28,010	28,410	28,840	29,270	29,700	30,130	30,570	31,000	31,440	31,880	32,320	32,770	33,230	33,700	34,170	34,640	35,110	35,580	42
43	27,130	27,580	28,030	28,480	28,940	29,410	29,880	30,360	30,840	31,320	31,800	32,290	32,780	33,270	33,760	34,270	34,780	35,300	35,820	36,340	36,860	43
44	27,430	27,930	28,430	28,930	29,440	29,960	30,470	31,000	31,520	32,050	32,580	33,120	33,660	34,200	34,740	35,300	35,860	36,420	36,980	37,550	38,120	44
45	27,740	28,280	28,830	29,380	29,940	30,500	31,070	31,640	32,210	32,790	33,370	33,950	34,540	35,130	35,720	36,320	36,930	37,530	38,140	38,760	39,370	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1051.0	1051.1	1051.2	1051.3	1051.4	1051.5	1051.6	1051.7	1051.8	1051.9	1052.0	1052.1	1052.2	1052.3	1052.4	1052.5	1052.6	1052.7	1052.8	1052.9	1053.0	
46	27, 740	28, 280	28, 830	29, 380	29, 940	30, 500	31, 070	31, 640	32, 210	32, 790	33, 370	33, 950	34, 540	35, 130	35, 720	36, 320	36, 930	37, 530	38, 140	38, 760	39, 370	46
47	27, 740	28, 280	28, 830	29, 380	29, 940	30, 500	31, 070	31, 640	32, 210	32, 790	33, 370	33, 950	34, 540	35, 130	35, 720	36, 320	36, 930	37, 530	38, 140	38, 760	39, 370	47
48	27, 740	28, 280	28, 830	29, 380	29, 940	30, 500	31, 070	31, 640	32, 210	32, 790	33, 370	33, 950	34, 540	35, 130	35, 720	36, 320	36, 930	37, 530	38, 140	38, 760	39, 370	48
49	27, 740	28, 280	28, 830	29, 380	29, 940	30, 500	31, 070	31, 640	32, 210	32, 790	33, 370	33, 950	34, 540	35, 130	35, 720	36, 320	36, 930	37, 530	38, 140	38, 760	39, 370	49
50	27, 740	28, 280	28, 830	29, 380	29, 940	30, 500	31, 070	31, 640	32, 210	32, 790	33, 370	33, 950	34, 540	35, 130	35, 720	36, 320	36, 930	37, 530	38, 140	38, 760	39, 370	50

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1053.0	1053.1	1053.2	1053.3	1053.4	1053.5	1053.6	1053.7	1053.8	1053.9	1054.0	1054.1	1054.2	1054.3	1054.4	1054.5	1054.6	1054.7	1054.8	1054.9	1055.0	
1	540	540	540	550	550	550	560	560	560	560	570	570	570	570	580	580	580	580	590	590	590	1
2	1,130	1,140	1,140	1,150	1,150	1,160	1,160	1,170	1,180	1,180	1,190	1,190	1,200	1,200	1,210	1,210	1,220	1,220	1,230	1,230	1,240	2
3	1,690	1,700	1,710	1,720	1,730	1,730	1,740	1,750	1,760	1,770	1,780	1,780	1,790	1,800	1,810	1,820	1,820	1,830	1,840	1,850	1,860	3
4	2,260	2,270	2,280	2,290	2,300	2,310	2,330	2,340	2,350	2,360	2,370	2,380	2,390	2,400	2,410	2,420	2,430	2,440	2,450	2,470	2,480	4
5	2,790	2,800	2,820	2,830	2,850	2,860	2,870	2,890	2,900	2,910	2,930	2,940	2,950	2,970	2,980	2,990	3,010	3,020	3,030	3,050	3,060	5
6	3,360	3,380	3,400	3,410	3,430	3,450	3,460	3,480	3,500	3,510	3,530	3,550	3,560	3,580	3,590	3,610	3,620	3,640	3,660	3,670	3,690	6
7	3,920	3,940	3,950	3,970	3,990	4,010	4,030	4,050	4,070	4,090	4,110	4,130	4,150	4,170	4,180	4,200	4,220	4,240	4,260	4,280	4,290	7
8	4,490	4,510	4,540	4,560	4,580	4,600	4,630	4,650	4,670	4,690	4,710	4,740	4,760	4,780	4,800	4,820	4,840	4,860	4,880	4,900	4,930	8
9	5,070	5,100	5,120	5,150	5,170	5,200	5,220	5,250	5,270	5,300	5,320	5,350	5,370	5,390	5,420	5,440	5,470	5,490	5,510	5,540	5,560	9
10	5,980	6,010	6,040	6,080	6,110	6,140	6,170	6,200	6,230	6,260	6,290	6,320	6,350	6,380	6,400	6,430	6,460	6,490	6,520	6,550	6,580	10
11	6,890	6,930	6,960	7,000	7,040	7,070	7,110	7,140	7,180	7,210	7,250	7,280	7,320	7,350	7,390	7,420	7,460	7,490	7,520	7,560	7,590	11
12	7,800	7,840	7,890	7,930	7,970	8,010	8,050	8,090	8,130	8,170	8,210	8,260	8,300	8,330	8,370	8,410	8,450	8,490	8,530	8,570	8,610	12
13	8,710	8,760	8,800	8,850	8,900	8,940	8,990	9,040	9,080	9,130	9,170	9,220	9,260	9,310	9,350	9,400	9,440	9,490	9,530	9,580	9,620	13
14	9,620	9,670	9,720	9,780	9,830	9,880	9,930	9,980	10,040	10,090	10,140	10,190	10,240	10,290	10,340	10,390	10,440	10,490	10,540	10,590	10,630	14
15	10,530	10,590	10,650	10,700	10,760	10,820	10,880	10,930	10,990	11,050	11,100	11,160	11,220	11,270	11,330	11,380	11,440	11,490	11,540	11,600	11,650	15
16	11,450	11,510	11,570	11,640	11,700	11,760	11,830	11,890	11,950	12,010	12,070	12,130	12,200	12,260	12,320	12,380	12,440	12,500	12,560	12,610	12,670	16
17	12,350	12,420	12,490	12,560	12,630	12,700	12,770	12,830	12,900	12,970	13,040	13,100	13,170	13,230	13,300	13,370	13,430	13,490	13,560	13,620	13,690	17
18	13,260	13,330	13,410	13,480	13,560	13,630	13,700	13,780	13,850	13,920	13,990	14,060	14,140	14,210	14,280	14,350	14,420	14,490	14,560	14,630	14,690	18
19	14,070	14,150	14,230	14,310	14,390	14,470	14,550	14,630	14,710	14,790	14,870	14,940	15,020	15,100	15,170	15,250	15,330	15,400	15,480	15,550	15,630	19
20	14,890	14,970	15,060	15,150	15,230	15,320	15,400	15,490	15,570	15,650	15,740	15,820	15,900	15,990	16,070	16,150	16,230	16,320	16,400	16,480	16,560	20
21	15,700	15,790	15,880	15,970	16,070	16,160	16,250	16,340	16,430	16,520	16,610	16,700	16,790	16,870	16,960	17,050	17,140	17,230	17,310	17,400	17,480	21
22	16,510	16,610	16,700	16,800	16,900	16,990	17,090	17,180	17,280	17,380	17,470	17,570	17,660	17,760	17,850	17,950	18,040	18,130	18,220	18,320	18,410	22
23	17,310	17,420	17,520	17,620	17,720	17,820	17,920	18,030	18,130	18,230	18,330	18,430	18,540	18,640	18,740	18,830	18,930	19,030	19,130	19,230	19,320	23
24	18,130	18,230	18,340	18,450	18,560	18,660	18,770	18,880	18,990	19,100	19,200	19,310	19,420	19,520	19,630	19,730	19,840	19,940	20,050	20,150	20,250	24
25	18,940	19,050	19,170	19,280	19,390	19,500	19,620	19,730	19,850	19,960	20,070	20,190	20,300	20,410	20,520	20,630	20,740	20,850	20,960	21,070	21,180	25
26	19,750	19,870	19,990	20,110	20,220	20,340	20,460	20,580	20,700	20,820	20,940	21,060	21,180	21,290	21,410	21,530	21,640	21,760	21,880	21,990	22,100	26
27	20,570	20,690	20,820	20,940	21,060	21,180	21,310	21,440	21,560	21,690	21,810	21,940	22,060	22,190	22,310	22,430	22,550	22,670	22,800	22,920	23,040	27
28	21,400	21,530	21,660	21,790	21,920	22,050	22,180	22,320	22,450	22,580	22,710	22,840	22,970	23,100	23,230	23,360	23,490	23,610	23,740	23,870	23,990	28
29	22,240	22,380	22,510	22,650	22,790	22,930	23,060	23,200	23,340	23,480	23,620	23,750	23,890	24,030	24,160	24,290	24,430	24,560	24,690	24,820	24,960	29
30	23,070	23,220	23,360	23,510	23,650	23,800	23,940	24,090	24,230	24,370	24,520	24,660	24,800	24,940	25,080	25,220	25,360	25,500	25,640	25,780	25,910	30
31	23,890	24,040	24,200	24,350	24,500	24,650	24,800	24,950	25,100	25,250	25,400	25,550	25,700	25,850	25,990	26,140	26,280	26,430	26,570	26,710	26,860	31
32	24,710	24,870	25,030	25,190	25,350	25,510	25,660	25,820	25,980	26,140	26,290	26,450	26,600	26,750	26,900	27,060	27,210	27,360	27,500	27,650	27,800	32
33	25,540	25,710	25,880	26,050	26,210	26,380	26,540	26,700	26,870	27,030	27,190	27,350	27,510	27,670	27,830	27,990	28,140	28,300	28,450	28,610	28,760	33
34	26,380	26,550	26,730	26,900	27,070	27,240	27,410	27,590	27,750	27,920	28,090	28,260	28,420	28,590	28,750	28,910	29,080	29,240	29,400	29,560	29,720	34
35	27,210	27,400	27,580	27,760	27,940	28,120	28,290	28,470	28,650	28,820	28,990	29,170	29,340	29,510	29,680	29,850	30,010	30,180	30,350	30,510	30,680	35
36	28,050	28,240	28,430	28,610	28,800	28,990	29,170	29,350	29,530	29,720	29,900	30,070	30,250	30,430	30,600	30,780	30,950	31,120	31,300	31,470	31,640	36
37	29,330	29,570	29,770	29,950	30,120	30,300	30,480	30,650	30,830	31,010	31,180	31,350	31,530	31,720	31,900	32,080	32,270	32,440	32,620	32,800	32,980	37
38	30,560	30,850	31,090	31,290	31,460	31,630	31,790	31,960	32,130	32,300	32,470	32,640	32,820	33,000	33,190	33,380	33,570	33,760	33,940	34,130	34,310	38
39	31,830	32,160	32,440	32,630	32,790	32,950	33,110	33,270	33,430	33,600	33,760	33,920	34,100	34,290	34,490	34,690	34,880	35,080	35,270	35,460	35,650	39
40	33,060	33,440	33,760	33,940	34,090	34,240	34,390	34,540	34,700	34,870	35,020	35,180	35,350	35,550	35,760	35,960	36,160	36,370	36,570	36,760	36,960	40
41	34,330	34,750	35,070	35,250	35,390	35,540	35,670	35,820	35,980	36,130	36,290	36,440	36,610	36,820	37,030	37,250	37,460	37,660	37,870	38,080	38,280	41
42	35,580	36,060	36,420	36,590	36,720	36,860	36,990	37,120	37,280	37,430	37,570	37,720	37,890	38,110	38,330	38,550	38,770	38,980	39,200	39,410	39,620	42
43	36,860	37,380	37,770	37,920	38,050	38,180	38,300	38,430	38,580	38,720	38,860	39,000	39,170	39,400	39,630	39,860	40,080	40,300	40,520	40,740	40,960	43
44	38,120	38,690	39,110	39,260	39,390	39,500	39,610	39,740	39,880	40,020	40,160	40,290	40,460	40,690	40,930	41,160	41,390	41,620	41,850	42,080	42,300	44
45	39,370	39,990	40,470	40,610	40,720	40,830	40,930	41,040	41,180	41,320	41,450	41,580	41,740	41,980	42,220	42,470	42,710	42,940	43,180	43,410	43,640	45

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1053.0	1053.1	1053.2	1053.3	1053.4	1053.5	1053.6	1053.7	1053.8	1053.9	1054.0	1054.1	1054.2	1054.3	1054.4	1054.5	1054.6	1054.7	1054.8	1054.9	1055.0	
46	39,370	39,990	40,510	40,710	40,880	41,050	41,210	41,380	41,570	41,770	41,960	42,140	42,350	42,640	42,930	43,220	43,510	43,800	44,090	44,370	44,650	46
47	39,370	39,990	40,510	40,740	40,970	41,200	41,420	41,650	41,900	42,150	42,400	42,640	42,910	43,250	43,590	43,930	44,270	44,600	44,940	45,270	45,610	47
48	39,370	39,990	40,520	40,810	41,100	41,380	41,660	41,950	42,260	42,570	42,880	43,180	43,510	43,890	44,280	44,670	45,050	45,440	45,820	46,210	46,590	48
49	39,370	39,990	40,530	40,880	41,220	41,560	41,900	42,250	42,620	42,980	43,340	43,700	44,090	44,520	44,950	45,380	45,820	46,250	46,680	47,120	47,550	49
50	39,370	39,990	40,580	40,980	41,380	41,780	42,180	42,580	43,000	43,420	43,840	44,260	44,690	45,170	45,650	46,130	46,610	47,090	47,570	48,050	48,530	50
51	39,370	39,990	40,580	41,040	41,500	41,960	42,420	42,880	43,360	43,840	44,310	44,790	45,280	45,810	46,330	46,860	47,390	47,920	48,450	48,980	49,520	51
52	39,370	39,990	40,610	41,130	41,640	42,160	42,680	43,200	43,730	44,270	44,810	45,340	45,890	46,460	47,030	47,610	48,180	48,760	49,340	49,930	50,510	52
53	39,370	39,990	40,620	41,190	41,760	42,340	42,920	43,500	44,090	44,680	45,280	45,870	46,470	47,090	47,710	48,330	48,960	49,590	50,220	50,850	51,490	53
54	39,370	39,990	40,620	41,250	41,880	42,510	43,150	43,800	44,440	45,090	45,740	46,400	47,060	47,720	48,390	49,060	49,740	50,410	51,090	51,780	52,470	54
55	39,370	39,990	40,620	41,250	41,880	42,510	43,150	43,800	44,440	45,090	45,740	46,400	47,060	47,720	48,390	49,060	49,740	50,410	51,090	51,780	52,470	55

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1055.0	1055.1	1055.2	1055.3	1055.4	1055.5	1055.6	1055.7	1055.8	1055.9	1056.0	1056.1	1056.2	1056.3	1056.4	1056.5	1056.6	1056.7	1056.8	1056.9	1057.0	
1	590	590	600	600	600	600	610	610	610	610	620	620	620	620	620	630	630	630	630	640	640	1
2	1,240	1,240	1,250	1,260	1,260	1,270	1,270	1,280	1,280	1,290	1,290	1,300	1,300	1,310	1,310	1,320	1,320	1,330	1,330	1,340	1,340	2
3	1,860	1,860	1,870	1,880	1,890	1,890	1,900	1,910	1,920	1,920	1,930	1,940	1,950	1,950	1,960	1,970	1,980	1,980	1,990	2,000	2,010	3
4	2,480	2,490	2,500	2,510	2,520	2,530	2,540	2,550	2,560	2,570	2,580	2,590	2,600	2,610	2,620	2,630	2,640	2,650	2,660	2,670	2,680	4
5	3,060	3,070	3,090	3,100	3,110	3,120	3,140	3,150	3,160	3,170	3,190	3,200	3,210	3,220	3,230	3,250	3,260	3,270	3,280	3,300	3,310	5
6	3,690	3,700	3,720	3,730	3,750	3,760	3,780	3,790	3,810	3,820	3,840	3,850	3,870	3,880	3,900	3,910	3,930	3,940	3,960	3,970	3,990	6
7	4,290	4,310	4,330	4,350	4,370	4,380	4,400	4,420	4,440	4,450	4,470	4,490	4,510	4,520	4,540	4,560	4,570	4,590	4,610	4,620	4,640	7
8	4,930	4,950	4,970	4,990	5,010	5,030	5,050	5,070	5,090	5,110	5,130	5,150	5,170	5,190	5,210	5,230	5,250	5,270	5,290	5,300	5,320	8
9	5,560	5,580	5,610	5,630	5,650	5,680	5,700	5,720	5,740	5,770	5,790	5,810	5,830	5,860	5,880	5,900	5,920	5,940	5,970	5,990	6,010	9
10	6,580	6,610	6,630	6,660	6,690	6,720	6,750	6,770	6,800	6,830	6,860	6,880	6,910	6,940	6,960	6,990	7,020	7,040	7,070	7,100	7,120	10
11	7,590	7,620	7,660	7,690	7,720	7,760	7,790	7,820	7,850	7,890	7,920	7,950	7,980	8,010	8,050	8,080	8,110	8,140	8,170	8,200	8,230	11
12	8,610	8,650	8,690	8,720	8,760	8,800	8,840	8,880	8,910	8,950	8,990	9,020	9,060	9,100	9,130	9,170	9,210	9,240	9,280	9,310	9,350	12
13	9,620	9,660	9,710	9,750	9,790	9,830	9,880	9,920	9,960	10,000	10,050	10,090	10,130	10,170	10,210	10,250	10,290	10,340	10,380	10,420	10,460	13
14	10,630	10,680	10,730	10,780	10,830	10,880	10,920	10,970	11,020	11,060	11,110	11,160	11,200	11,250	11,300	11,340	11,390	11,430	11,480	11,520	11,570	14
15	11,650	11,710	11,760	11,810	11,860	11,920	11,970	12,020	12,070	12,130	12,180	12,230	12,280	12,330	12,380	12,430	12,480	12,530	12,580	12,630	12,680	15
16	12,670	12,730	12,790	12,850	12,910	12,960	13,020	13,080	13,140	13,190	13,250	13,310	13,360	13,420	13,470	13,530	13,580	13,640	13,690	13,750	13,800	16
17	13,690	13,750	13,810	13,880	13,940	14,000	14,070	14,130	14,190	14,250	14,310	14,370	14,440	14,500	14,560	14,620	14,680	14,740	14,800	14,860	14,910	17
18	14,690	14,760	14,830	14,900	14,970	15,040	15,100	15,170	15,240	15,300	15,370	15,440	15,500	15,570	15,630	15,700	15,760	15,830	15,890	15,950	16,020	18
19	15,630	15,700	15,770	15,850	15,920	15,990	16,070	16,140	16,210	16,280	16,360	16,430	16,500	16,570	16,640	16,710	16,780	16,850	16,920	16,990	17,060	19
20	16,560	16,640	16,720	16,800	16,880	16,950	17,030	17,110	17,190	17,270	17,340	17,420	17,500	17,570	17,650	17,730	17,800	17,880	17,950	18,030	18,100	20
21	17,480	17,570	17,660	17,740	17,820	17,910	17,990	18,080	18,160	18,240	18,330	18,410	18,490	18,570	18,650	18,730	18,820	18,900	18,980	19,060	19,130	21
22	18,410	18,500	18,590	18,680	18,770	18,860	18,950	19,040	19,130	19,220	19,300	19,390	19,480	19,570	19,650	19,740	19,830	19,910	20,000	20,080	20,170	22
23	19,320	19,420	19,520	19,610	19,710	19,800	19,900	19,990	20,090	20,180	20,280	20,370	20,460	20,550	20,650	20,740	20,830	20,920	21,010	21,100	21,190	23
24	20,250	20,350	20,460	20,560	20,660	20,760	20,860	20,960	21,060	21,160	21,260	21,360	21,450	21,550	21,650	21,750	21,840	21,940	22,040	22,130	22,230	24
25	21,180	21,290	21,390	21,500	21,610	21,720	21,820	21,930	22,030	22,140	22,240	22,350	22,450	22,550	22,650	22,760	22,860	22,960	23,060	23,160	23,260	25
26	22,100	22,220	22,330	22,440	22,560	22,670	22,780	22,890	23,000	23,110	23,220	23,330	23,440	23,550	23,660	23,760	23,870	23,980	24,090	24,190	24,300	26
27	23,040	23,150	23,270	23,390	23,510	23,630	23,740	23,860	23,980	24,090	24,210	24,320	24,440	24,550	24,670	24,780	24,890	25,000	25,120	25,230	25,340	27
28	23,990	24,120	24,240	24,360	24,490	24,610	24,740	24,860	24,980	25,100	25,220	25,350	25,470	25,590	25,710	25,830	25,950	26,060	26,180	26,300	26,420	28
29	24,960	25,090	25,220	25,340	25,470	25,600	25,730	25,860	25,990	26,120	26,250	26,380	26,500	26,630	26,760	26,880	27,010	27,130	27,260	27,380	27,500	29
30	25,910	26,050	26,180	26,320	26,450	26,590	26,730	26,860	27,000	27,130	27,270	27,400	27,540	27,670	27,800	27,930	28,060	28,200	28,330	28,460	28,590	30
31	26,860	27,000	27,140	27,280	27,420	27,560	27,710	27,850	27,990	28,130	28,270	28,410	28,550	28,690	28,830	28,970	29,100	29,240	29,380	29,510	29,650	31
32	27,800	27,950	28,090	28,240	28,390	28,540	28,680	28,830	28,980	29,130	29,280	29,420	29,570	29,710	29,860	30,000	30,150	30,290	30,430	30,570	30,720	32
33	28,760	28,910	29,060	29,210	29,370	29,520	29,680	29,830	29,990	30,140	30,300	30,450	30,600	30,750	30,900	31,050	31,200	31,350	31,500	31,650	31,800	33
34	29,720	29,870	30,030	30,190	30,340	30,510	30,670	30,830	30,990	31,150	31,310	31,470	31,630	31,790	31,940	32,100	32,260	32,410	32,570	32,720	32,880	34
35	30,680	30,840	31,000	31,160	31,330	31,500	31,670	31,830	32,000	32,170	32,330	32,500	32,660	32,830	32,990	33,150	33,320	33,480	33,640	33,800	33,960	35
36	31,640	31,800	31,970	32,140	32,310	32,490	32,660	32,830	33,010	33,180	33,350	33,530	33,700	33,870	34,040	34,210	34,380	34,540	34,710	34,880	35,040	36
37	32,980	33,150	33,330	33,510	33,680	33,870	34,050	34,230	34,410	34,590	34,770	34,950	35,130	35,310	35,480	35,660	35,830	36,010	36,180	36,360	36,530	37
38	34,310	34,490	34,680	34,860	35,050	35,240	35,430	35,620	35,810	35,990	36,180	36,370	36,550	36,740	36,920	37,100	37,280	37,470	37,650	37,830	38,000	38
39	35,650	35,840	36,030	36,220	36,420	36,620	36,820	37,010	37,210	37,410	37,600	37,790	37,980	38,180	38,370	38,560	38,740	38,930	39,120	39,300	39,490	39
40	36,960	37,160	37,350	37,560	37,760	37,970	38,170	38,380	38,580	38,780	38,980	39,180	39,380	39,580	39,780	39,970	40,170	40,360	40,550	40,740	40,940	40
41	38,280	38,480	38,690	38,900	39,110	39,320	39,540	39,750	39,960	40,170	40,380	40,580	40,790	40,990	41,200	41,400	41,600	41,800	42,000	42,200	42,390	41
42	39,620	39,830	40,040	40,260	40,480	40,700	40,920	41,140	41,360	41,580	41,790	42,010	42,220	42,430	42,640	42,850	43,060	43,260	43,470	43,670	43,880	42
43	40,960	41,180	41,400	41,630	41,860	42,080	42,310	42,540	42,760	42,990	43,210	43,430	43,650	43,870	44,090	44,300	44,520	44,730	44,940	45,150	45,360	43
44	42,300	42,520	42,750	42,990	43,230	43,460	43,700	43,930	44,170	44,400	44,630	44,860	45,080	45,310	45,530	45,750	45,970	46,190	46,410	46,630	46,840	44
45	43,640	43,870	44,100	44,350	44,600	44,840	45,090	45,330	45,570	45,810	46,040	46,280	46,510	46,750	46,980	47,210	47,430	47,660	47,880	48,110	48,330	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1055.0	1055.1	1055.2	1055.3	1055.4	1055.5	1055.6	1055.7	1055.8	1055.9	1056.0	1056.1	1056.2	1056.3	1056.4	1056.5	1056.6	1056.7	1056.8	1056.9	1057.0	
46	44,650	44,930	45,220	45,510	45,810	46,110	46,400	46,700	46,990	47,280	47,580	47,870	48,160	48,440	48,730	49,020	49,300	49,590	49,870	50,150	50,410	46
47	45,610	45,940	46,270	46,620	46,970	47,320	47,670	48,010	48,360	48,710	49,050	49,400	49,740	50,080	50,430	50,770	51,110	51,450	51,800	52,140	52,460	47
48	46,590	46,970	47,360	47,760	48,160	48,560	48,960	49,360	49,760	50,160	50,560	50,960	51,360	51,750	52,150	52,550	52,950	53,350	53,750	54,160	54,530	48
49	47,550	47,980	48,420	48,870	49,320	49,770	50,220	50,670	51,120	51,570	52,020	52,470	52,930	53,380	53,830	54,290	54,740	55,200	55,660	56,120	56,550	49
50	48,530	49,020	49,510	50,000	50,500	51,000	51,500	52,000	52,500	53,010	53,510	54,020	54,520	55,030	55,540	56,050	56,560	57,080	57,590	58,100	58,580	50
51	49,520	50,050	50,590	51,140	51,690	52,240	52,790	53,340	53,900	54,460	55,020	55,580	56,140	56,700	57,270	57,830	58,400	58,970	59,550	60,120	60,650	51
52	50,510	51,100	51,690	52,290	52,890	53,490	54,090	54,700	55,310	55,920	56,530	57,150	57,770	58,390	59,010	59,630	60,260	60,890	61,520	62,150	62,740	52
53	51,490	52,130	52,770	53,420	54,070	54,720	55,380	56,040	56,700	57,360	58,030	58,700	59,370	60,050	60,730	61,410	62,090	62,780	63,470	64,160	64,810	53
54	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,880	54
55	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,900	55
56	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,900	56
57	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,900	57
58	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,900	58
59	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,920	59
60	52,470	53,160	53,850	54,550	55,250	55,960	56,660	57,380	58,090	58,810	59,530	60,250	60,980	61,710	62,450	63,190	63,930	64,670	65,420	66,170	66,920	60

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1057.0	1057.1	1057.2	1057.3	1057.4	1057.5	1057.6	1057.7	1057.8	1057.9	1058.0	1058.1	1058.2	1058.3	1058.4	1058.5	1058.6	1058.7	1058.8	1058.9	1059.0	
1	640	640	640	650	650	650	650	650	660	660	660	660	670	670	670	670	670	680	680	680	680	1
2	1,340	1,340	1,350	1,350	1,360	1,360	1,370	1,370	1,380	1,380	1,390	1,390	1,400	1,400	1,410	1,410	1,410	1,420	1,420	1,430	1,430	2
3	2,010	2,010	2,020	2,030	2,030	2,040	2,050	2,060	2,060	2,070	2,080	2,080	2,090	2,100	2,100	2,110	2,120	2,120	2,130	2,140	2,150	3
4	2,680	2,690	2,700	2,700	2,710	2,720	2,730	2,740	2,750	2,760	2,770	2,780	2,790	2,800	2,810	2,820	2,830	2,840	2,840	2,850	2,860	4
5	3,310	3,320	3,330	3,340	3,350	3,370	3,380	3,390	3,400	3,410	3,420	3,440	3,450	3,460	3,470	3,480	3,490	3,500	3,510	3,530	3,540	5
6	3,990	4,000	4,010	4,030	4,040	4,060	4,070	4,090	4,100	4,110	4,130	4,140	4,150	4,170	4,180	4,200	4,210	4,220	4,240	4,250	4,260	6
7	4,640	4,660	4,670	4,690	4,710	4,720	4,740	4,760	4,770	4,790	4,800	4,820	4,840	4,850	4,870	4,890	4,900	4,920	4,930	4,950	4,960	7
8	5,320	5,340	5,360	5,380	5,400	5,420	5,440	5,460	5,480	5,490	5,510	5,530	5,550	5,570	5,590	5,600	5,620	5,640	5,660	5,680	5,690	8
9	6,010	6,030	6,050	6,070	6,100	6,120	6,140	6,160	6,180	6,200	6,220	6,240	6,260	6,290	6,310	6,330	6,350	6,370	6,390	6,410	6,430	9
10	7,120	7,150	7,180	7,200	7,230	7,250	7,280	7,300	7,330	7,350	7,380	7,400	7,430	7,450	7,480	7,500	7,530	7,550	7,580	7,600	7,630	10
11	8,230	8,260	8,290	8,320	8,360	8,390	8,410	8,440	8,470	8,500	8,530	8,560	8,590	8,620	8,650	8,680	8,710	8,740	8,770	8,790	8,820	11
12	9,350	9,380	9,420	9,450	9,490	9,520	9,560	9,590	9,630	9,660	9,690	9,730	9,760	9,790	9,830	9,860	9,890	9,930	9,960	9,990	10,020	12
13	10,460	10,500	10,530	10,570	10,610	10,650	10,690	10,730	10,770	10,800	10,840	10,880	10,920	10,960	10,990	11,030	11,070	11,100	11,140	11,180	11,220	13
14	11,570	11,610	11,660	11,700	11,740	11,780	11,830	11,870	11,910	11,960	12,000	12,040	12,080	12,120	12,160	12,210	12,250	12,290	12,330	12,370	12,410	14
15	12,680	12,730	12,780	12,830	12,870	12,920	12,970	13,020	13,060	13,110	13,160	13,200	13,250	13,290	13,340	13,390	13,430	13,480	13,520	13,570	13,610	15
16	13,800	13,850	13,910	13,960	14,010	14,060	14,110	14,160	14,220	14,270	14,320	14,370	14,420	14,470	14,520	14,570	14,620	14,670	14,720	14,770	14,820	16
17	14,910	14,970	15,030	15,080	15,140	15,190	15,250	15,310	15,360	15,420	15,470	15,530	15,580	15,640	15,690	15,740	15,800	15,850	15,910	15,960	16,010	17
18	16,020	16,080	16,140	16,200	16,260	16,320	16,380	16,440	16,500	16,560	16,620	16,680	16,740	16,800	16,850	16,910	16,970	17,030	17,090	17,140	17,200	18
19	17,060	17,120	17,190	17,260	17,320	17,390	17,450	17,520	17,580	17,650	17,710	17,780	17,840	17,910	17,970	18,030	18,100	18,160	18,220	18,280	18,340	19
20	18,100	18,170	18,240	18,320	18,390	18,460	18,530	18,600	18,670	18,740	18,810	18,880	18,950	19,020	19,090	19,160	19,230	19,290	19,360	19,430	19,490	20
21	19,130	19,210	19,290	19,370	19,440	19,520	19,600	19,670	19,750	19,830	19,900	19,980	20,050	20,130	20,200	20,280	20,350	20,420	20,490	20,560	20,630	21
22	20,170	20,250	20,330	20,420	20,500	20,580	20,660	20,740	20,830	20,910	20,990	21,070	21,150	21,230	21,310	21,390	21,470	21,540	21,620	21,690	21,770	22
23	21,190	21,280	21,370	21,460	21,540	21,630	21,720	21,810	21,890	21,980	22,070	22,150	22,240	22,320	22,410	22,490	22,580	22,660	22,740	22,820	22,900	23
24	22,230	22,320	22,420	22,510	22,600	22,700	22,790	22,880	22,970	23,070	23,160	23,250	23,340	23,430	23,520	23,610	23,700	23,780	23,870	23,950	24,040	24
25	23,260	23,360	23,460	23,560	23,660	23,760	23,860	23,960	24,050	24,150	24,250	24,340	24,440	24,540	24,630	24,730	24,820	24,910	25,000	25,090	25,180	25
26	24,300	24,400	24,510	24,610	24,720	24,820	24,930	25,030	25,130	25,230	25,340	25,440	25,540	25,640	25,740	25,840	25,940	26,030	26,130	26,220	26,310	26
27	25,340	25,450	25,560	25,670	25,780	25,890	26,000	26,110	26,220	26,320	26,430	26,540	26,650	26,750	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27
28	26,420	26,530	26,650	26,770	26,880	27,000	27,110	27,230	27,340	27,460	27,570	27,680	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,660	28
29	27,500	27,630	27,750	27,870	27,990	28,120	28,240	28,360	28,480	28,600	28,720	28,840	28,950	29,070	29,190	29,310	29,420	29,540	29,650	29,760	29,870	29
30	28,590	28,710	28,840	28,970	29,100	29,230	29,350	29,480	29,610	29,730	29,860	29,980	30,110	30,230	30,360	30,480	30,600	30,720	30,840	30,950	31,070	30
31	29,650	29,780	29,920	30,050	30,190	30,320	30,450	30,590	30,720	30,850	30,980	31,110	31,240	31,370	31,500	31,630	31,760	31,880	32,010	32,130	32,250	31
32	30,720	30,860	31,000	31,140	31,280	31,420	31,560	31,690	31,830	31,970	32,110	32,240	32,380	32,520	32,650	32,790	32,920	33,050	33,180	33,310	33,440	32
33	31,800	31,940	32,090	32,240	32,380	32,530	32,670	32,820	32,960	33,110	33,250	33,390	33,530	33,670	33,820	33,960	34,100	34,230	34,370	34,510	34,640	33
34	32,880	33,030	33,180	33,340	33,490	33,640	33,790	33,940	34,090	34,240	34,390	34,540	34,680	34,830	34,980	35,130	35,270	35,420	35,560	35,700	35,840	34
35	33,960	34,120	34,280	34,440	34,600	34,750	34,910	35,070	35,220	35,380	35,530	35,690	35,840	35,990	36,150	36,300	36,450	36,600	36,750	36,900	37,050	35
36	35,040	35,210	35,370	35,540	35,700	35,870	36,030	36,190	36,350	36,510	36,670	36,830	36,990	37,150	37,310	37,470	37,630	37,790	37,940	38,100	38,250	36
37	36,530	36,700	36,870	37,040	37,210	37,380	37,550	37,720	37,880	38,050	38,220	38,380	38,550	38,720	38,880	39,050	39,220	39,380	39,550	39,710	39,880	37
38	38,000	38,180	38,360	38,530	38,710	38,890	39,060	39,230	39,410	39,580	39,750	39,920	40,090	40,270	40,440	40,620	40,790	40,970	41,140	41,320	41,490	38
39	39,490	39,670	39,860	40,040	40,220	40,400	40,580	40,760	40,940	41,120	41,290	41,470	41,650	41,830	42,020	42,200	42,380	42,570	42,750	42,930	43,110	39
40	40,940	41,130	41,320	41,500	41,690	41,880	42,060	42,250	42,430	42,610	42,800	42,980	43,160	43,350	43,550	43,740	43,930	44,120	44,310	44,500	44,690	40
41	42,390	42,590	42,790	42,980	43,170	43,360	43,560	43,750	43,940	44,120	44,310	44,500	44,690	44,890	45,090	45,290	45,490	45,690	45,890	46,090	46,290	41
42	43,880	44,080	44,280	44,480	44,680	44,880	45,070	45,270	45,460	45,660	45,850	46,040	46,240	46,450	46,660	46,870	47,080	47,280	47,490	47,700	47,900	42
43	45,360	45,570	45,780	45,980	46,190	46,390	46,590	46,800	47,000	47,200	47,390	47,590	47,800	48,010	48,230	48,450	48,670	48,880	49,100	49,310	49,530	43
44	46,840	47,060	47,270	47,480	47,690	47,900	48,110	48,320	48,530	48,730	48,930	49,140	49,350	49,570	49,800	50,030	50,250	50,480	50,700	50,920	51,150	44
45	48,330	48,550	48,770	48,990	49,200	49,420	49,630	49,850	50,060	50,270	50,480	50,680	50,900	51,140	51,370	51,610	51,840	52,070	52,310	52,540	52,770	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1057.0	1057.1	1057.2	1057.3	1057.4	1057.5	1057.6	1057.7	1057.8	1057.9	1058.0	1058.1	1058.2	1058.3	1058.4	1058.5	1058.6	1058.7	1058.8	1058.9	1059.0	
46	50,410	50,620	50,830	51,030	51,230	51,440	51,650	51,850	52,060	52,260	52,460	52,680	52,900	53,130	53,370	53,610	53,840	54,080	54,310	54,540	54,780	46
47	52,460	52,720	52,910	53,110	53,300	53,490	53,680	53,880	54,080	54,270	54,470	54,680	54,900	55,140	55,380	55,620	55,860	56,090	56,320	56,560	56,790	47
48	54,530	54,810	54,990	55,170	55,340	55,520	55,710	55,900	56,090	56,280	56,470	56,680	56,900	57,150	57,390	57,630	57,860	58,100	58,340	58,570	58,800	48
49	56,550	56,830	57,000	57,160	57,330	57,490	57,670	57,850	58,040	58,220	58,400	58,610	58,840	59,090	59,330	59,570	59,810	60,050	60,280	60,510	60,750	49
50	58,580	58,840	59,000	59,150	59,300	59,450	59,630	59,800	59,980	60,150	60,330	60,550	60,790	61,030	61,270	61,520	61,760	61,990	62,230	62,460	62,700	50
51	60,650	60,940	61,080	61,220	61,360	61,500	61,660	61,830	62,000	62,160	62,330	62,550	62,790	63,040	63,290	63,530	63,770	64,010	64,250	64,480	64,720	51
52	62,740	63,020	63,150	63,280	63,410	63,530	63,680	63,850	64,010	64,170	64,330	64,550	64,800	65,050	65,300	65,540	65,780	66,020	66,260	66,500	66,730	52
53	64,810	65,110	65,230	65,350	65,460	65,570	65,710	65,870	66,030	66,180	66,330	66,550	66,800	67,060	67,300	67,550	67,790	68,040	68,270	68,510	68,750	53
54	66,880	67,210	67,320	67,420	67,510	67,610	67,740	67,900	68,050	68,190	68,340	68,550	68,810	69,060	69,320	69,560	69,810	70,050	70,290	70,530	70,770	54
55	66,900	67,300	67,480	67,660	67,830	68,000	68,210	68,430	68,650	68,860	69,080	69,360	69,670	69,990	70,300	70,610	70,920	71,220	71,530	71,830	72,130	55
56	66,900	67,310	67,560	67,810	68,060	68,300	68,580	68,870	69,160	69,450	69,740	70,090	70,460	70,840	71,210	71,590	71,960	72,320	72,690	73,060	73,430	56
57	66,900	67,360	67,680	68,010	68,330	68,650	69,000	69,360	69,720	70,080	70,440	70,860	71,290	71,730	72,160	72,600	73,030	73,460	73,890	74,330	74,760	57
58	66,900	67,410	67,810	68,210	68,600	69,000	69,420	69,850	70,270	70,700	71,130	71,610	72,100	72,590	73,090	73,580	74,080	74,570	75,060	75,560	76,050	58
59	66,920	67,500	67,970	68,440	68,910	69,370	69,860	70,360	70,860	71,350	71,850	72,380	72,930	73,490	74,040	74,590	75,150	75,700	76,260	76,810	77,370	59
60	66,920	67,540	68,090	68,630	69,170	69,710	70,270	70,840	71,410	71,980	72,540	73,140	73,750	74,370	74,980	75,600	76,220	76,830	77,450	78,070	78,700	60
61	66,920	67,610	68,220	68,840	69,460	70,080	70,700	71,340	71,980	72,620	73,260	73,920	74,590	75,270	75,940	76,620	77,300	77,980	78,670	79,350	80,040	61
62	66,920	67,650	68,340	69,030	69,720	70,410	71,110	71,820	72,530	73,240	73,960	74,680	75,410	76,150	76,880	77,620	78,370	79,110	79,860	80,610	81,360	62
63	66,920	67,680	68,440	69,210	69,970	70,740	71,520	72,290	73,070	73,860	74,640	75,430	76,230	77,020	77,820	78,620	79,430	80,240	81,050	81,860	82,680	63
64	66,920	67,680	68,440	69,210	69,970	70,740	71,520	72,290	73,070	73,860	74,640	75,430	76,230	77,020	77,820	78,620	79,430	80,240	81,050	81,860	82,680	64
65	66,920	67,680	68,440	69,210	69,970	70,740	71,520	72,290	73,070	73,860	74,640	75,430	76,230	77,020	77,820	78,620	79,430	80,240	81,050	81,860	82,680	65

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1059.0	1059.1	1059.2	1059.3	1059.4	1059.5	1059.6	1059.7	1059.8	1059.9	1060.0	1060.1	1060.2	1060.3	1060.4	1060.5	1060.6	1060.7	1060.8	1060.9	1061.0	
1	680	690	690	690	690	690	700	700	700	700	700	710	710	710	710	710	720	720	720	720	730	1
2	1,430	1,440	1,440	1,450	1,450	1,460	1,460	1,460	1,470	1,470	1,480	1,480	1,490	1,490	1,490	1,500	1,500	1,510	1,510	1,520	1,520	2
3	2,150	2,150	2,160	2,170	2,170	2,180	2,190	2,190	2,200	2,210	2,210	2,220	2,220	2,230	2,240	2,240	2,250	2,260	2,260	2,270	2,280	3
4	2,860	2,870	2,880	2,890	2,900	2,910	2,920	2,920	2,930	2,940	2,950	2,960	2,970	2,980	2,990	2,990	3,000	3,010	3,020	3,030	3,040	4
5	3,540	3,550	3,560	3,570	3,580	3,590	3,600	3,610	3,630	3,640	3,650	3,660	3,670	3,680	3,690	3,700	3,710	3,720	3,730	3,740	3,750	5
6	4,260	4,280	4,290	4,300	4,320	4,330	4,340	4,360	4,370	4,380	4,400	4,410	4,420	4,430	4,450	4,460	4,470	4,490	4,500	4,510	4,520	6
7	4,960	4,980	4,990	5,010	5,030	5,040	5,060	5,070	5,090	5,100	5,120	5,130	5,150	5,160	5,180	5,190	5,210	5,220	5,240	5,250	5,270	7
8	5,690	5,710	5,730	5,750	5,770	5,780	5,800	5,820	5,840	5,850	5,870	5,890	5,910	5,920	5,940	5,960	5,970	5,990	6,010	6,030	6,040	8
9	6,430	6,450	6,470	6,490	6,510	6,530	6,550	6,570	6,590	6,610	6,630	6,650	6,670	6,690	6,710	6,730	6,740	6,760	6,780	6,800	6,820	9
10	7,630	7,650	7,680	7,700	7,720	7,750	7,770	7,800	7,820	7,840	7,870	7,890	7,910	7,940	7,960	7,980	8,010	8,030	8,050	8,080	8,100	10
11	8,820	8,850	8,880	8,910	8,940	8,960	8,990	9,020	9,050	9,080	9,100	9,130	9,160	9,190	9,210	9,240	9,270	9,290	9,320	9,350	9,370	11
12	10,020	10,060	10,090	10,120	10,150	10,190	10,220	10,250	10,280	10,310	10,340	10,380	10,410	10,440	10,470	10,500	10,530	10,560	10,590	10,620	10,660	12
13	11,220	11,250	11,290	11,320	11,360	11,400	11,430	11,470	11,500	11,540	11,580	11,610	11,650	11,680	11,720	11,750	11,790	11,820	11,860	11,890	11,930	13
14	12,410	12,450	12,490	12,530	12,570	12,610	12,650	12,690	12,730	12,770	12,810	12,850	12,890	12,930	12,970	13,010	13,050	13,090	13,120	13,160	13,200	14
15	13,610	13,660	13,700	13,750	13,790	13,830	13,880	13,920	13,970	14,010	14,050	14,100	14,140	14,180	14,230	14,270	14,310	14,350	14,400	14,440	14,480	15
16	14,820	14,860	14,910	14,960	15,010	15,060	15,110	15,150	15,200	15,250	15,300	15,340	15,390	15,440	15,490	15,530	15,580	15,630	15,670	15,720	15,760	16
17	16,010	16,060	16,120	16,170	16,220	16,280	16,330	16,380	16,430	16,480	16,530	16,590	16,640	16,690	16,740	16,790	16,840	16,890	16,940	16,990	17,040	17
18	17,200	17,260	17,310	17,370	17,430	17,480	17,540	17,600	17,650	17,710	17,760	17,820	17,870	17,930	17,980	18,040	18,090	18,150	18,200	18,250	18,310	18
19	18,340	18,400	18,470	18,530	18,590	18,650	18,710	18,770	18,830	18,890	18,950	19,010	19,070	19,130	19,190	19,240	19,300	19,360	19,420	19,480	19,540	19
20	19,490	19,560	19,620	19,690	19,760	19,820	19,890	19,950	20,010	20,080	20,140	20,210	20,270	20,330	20,400	20,460	20,520	20,580	20,650	20,710	20,770	20
21	20,630	20,700	20,770	20,840	20,910	20,980	21,050	21,120	21,190	21,260	21,330	21,390	21,460	21,530	21,600	21,660	21,730	21,800	21,860	21,930	22,000	21
22	21,770	21,840	21,920	21,990	22,070	22,140	22,210	22,290	22,360	22,430	22,500	22,580	22,650	22,720	22,790	22,860	22,930	23,010	23,080	23,150	23,220	22
23	22,900	22,970	23,050	23,130	23,210	23,290	23,370	23,440	23,520	23,600	23,670	23,750	23,830	23,900	23,980	24,050	24,130	24,200	24,280	24,350	24,430	23
24	24,040	24,120	24,200	24,280	24,370	24,450	24,530	24,610	24,690	24,780	24,860	24,940	25,020	25,100	25,180	25,260	25,340	25,420	25,490	25,570	25,650	24
25	25,180	25,260	25,350	25,440	25,520	25,610	25,700	25,780	25,870	25,950	26,040	26,120	26,210	26,290	26,380	26,460	26,550	26,630	26,710	26,790	26,880	25
26	26,310	26,410	26,500	26,590	26,680	26,770	26,860	26,950	27,040	27,130	27,220	27,310	27,400	27,490	27,580	27,660	27,750	27,840	27,930	28,010	28,100	26
27	27,460	27,560	27,650	27,750	27,840	27,940	28,030	28,130	28,220	28,320	28,410	28,500	28,600	28,690	28,780	28,870	28,970	29,060	29,150	29,240	29,330	27
28	28,660	28,760	28,870	28,970	29,070	29,170	29,270	29,370	29,480	29,580	29,680	29,780	29,880	29,970	30,070	30,170	30,270	30,360	30,460	30,560	30,650	28
29	29,870	29,980	30,090	30,190	30,300	30,410	30,520	30,630	30,730	30,840	30,950	31,050	31,160	31,270	31,370	31,470	31,570	31,680	31,780	31,880	31,980	29
30	31,070	31,190	31,300	31,420	31,530	31,650	31,760	31,880	31,990	32,100	32,220	32,330	32,440	32,550	32,660	32,770	32,880	32,980	33,090	33,200	33,300	30
31	32,250	32,380	32,500	32,620	32,740	32,860	32,980	33,100	33,220	33,340	33,460	33,580	33,700	33,820	33,940	34,050	34,160	34,270	34,380	34,490	34,600	31
32	33,440	33,570	33,700	33,830	33,960	34,080	34,210	34,340	34,460	34,590	34,720	34,840	34,970	35,090	35,210	35,330	35,450	35,560	35,680	35,790	35,910	32
33	34,640	34,780	34,910	35,050	35,180	35,320	35,450	35,590	35,720	35,850	35,980	36,120	36,250	36,380	36,510	36,630	36,750	36,870	36,990	37,110	37,230	33
34	35,840	35,990	36,130	36,270	36,410	36,550	36,690	36,830	36,970	37,110	37,250	37,390	37,530	37,660	37,800	37,920	38,050	38,180	38,300	38,430	38,550	34
35	37,050	37,200	37,350	37,500	37,640	37,790	37,940	38,080	38,230	38,380	38,520	38,670	38,810	38,950	39,090	39,230	39,360	39,490	39,620	39,750	39,880	35
36	38,250	38,410	38,560	38,720	38,870	39,030	39,180	39,330	39,490	39,640	39,790	39,940	40,090	40,240	40,390	40,530	40,660	40,800	40,930	41,070	41,200	36
37	39,880	40,040	40,200	40,370	40,530	40,690	40,850	41,010	41,170	41,330	41,490	41,650	41,810	41,970	42,120	42,270	42,420	42,560	42,710	42,850	42,990	37
38	41,490	41,660	41,830	42,000	42,170	42,340	42,510	42,680	42,850	43,020	43,190	43,350	43,520	43,690	43,850	44,000	44,160	44,310	44,470	44,620	44,770	38
39	43,110	43,290	43,470	43,650	43,830	44,010	44,180	44,360	44,540	44,710	44,890	45,060	45,240	45,410	45,580	45,750	45,910	46,080	46,240	46,400	46,560	39
40	44,690	44,880	45,070	45,250	45,440	45,630	45,810	46,000	46,180	46,370	46,550	46,730	46,910	47,100	47,280	47,450	47,620	47,790	47,970	48,140	48,310	40
41	46,290	46,480	46,680	46,870	47,070	47,260	47,460	47,650	47,840	48,030	48,220	48,410	48,600	48,790	48,980	49,160	49,350	49,530	49,710	49,890	50,070	41
42	47,900	48,110	48,310	48,520	48,720	48,920	49,120	49,320	49,520	49,720	49,920	50,120	50,320	50,520	50,710	50,900	51,090	51,290	51,480	51,660	51,850	42
43	49,530	49,740	49,950	50,160	50,380	50,590	50,800	51,000	51,210	51,420	51,630	51,830	52,040	52,240	52,450	52,650	52,850	53,050	53,250	53,450	53,650	43
44	51,150	51,370	51,590	51,810	52,030	52,250	52,460	52,680	52,900	53,110	53,330	53,540	53,760	53,970	54,180	54,390	54,600	54,810	55,020	55,230	55,430	44
45	52,770	53,000	53,230	53,450	53,680	53,910	54,130	54,360	54,580	54,810	55,030	55,250	55,470	55,700	55,920	56,140	56,350	56,570	56,790	57,010	57,220	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1059.0	1059.1	1059.2	1059.3	1059.4	1059.5	1059.6	1059.7	1059.8	1059.9	1060.0	1060.1	1060.2	1060.3	1060.4	1060.5	1060.6	1060.7	1060.8	1060.9	1061.0	
46	54,780	55,010	55,250	55,490	55,730	55,960	56,190	56,430	56,660	56,890	57,120	57,350	57,580	57,810	58,040	58,260	58,490	58,720	58,940	59,160	59,390	46
47	56,790	57,030	57,280	57,520	57,770	58,010	58,250	58,490	58,730	58,970	59,210	59,450	59,690	59,920	60,160	60,390	60,630	60,860	61,090	61,320	61,550	47
48	58,800	59,050	59,300	59,560	59,810	60,060	60,310	60,560	60,810	61,060	61,310	61,550	61,800	62,040	62,280	62,520	62,760	63,000	63,240	63,480	63,720	48
49	60,750	61,000	61,270	61,530	61,790	62,050	62,310	62,570	62,820	63,080	63,330	63,580	63,840	64,090	64,340	64,580	64,830	65,080	65,320	65,570	65,810	49
50	62,700	62,960	63,240	63,510	63,780	64,040	64,310	64,580	64,840	65,100	65,360	65,620	65,880	66,140	66,400	66,650	66,910	67,160	67,410	67,660	67,910	50
51	64,720	64,990	65,270	65,550	65,820	66,100	66,380	66,650	66,920	67,190	67,460	67,730	68,000	68,260	68,530	68,790	69,050	69,310	69,570	69,830	70,080	51
52	66,730	67,010	67,300	67,590	67,870	68,160	68,440	68,720	69,000	69,280	69,560	69,840	70,110	70,380	70,650	70,920	71,190	71,460	71,730	71,990	72,250	52
53	68,750	69,030	69,330	69,620	69,920	70,210	70,500	70,790	71,080	71,370	71,650	71,940	72,220	72,500	72,780	73,060	73,330	73,610	73,880	74,150	74,420	53
54	70,770	71,050	71,360	71,660	71,960	72,270	72,570	72,860	73,160	73,460	73,750	74,040	74,330	74,620	74,900	75,190	75,470	75,750	76,030	76,310	76,590	54
55	72,130	72,470	72,840	73,200	73,560	73,930	74,290	74,650	75,000	75,360	75,720	76,070	76,420	76,780	77,130	77,480	77,830	78,170	78,520	78,870	79,210	55
56	73,430	73,830	74,260	74,680	75,100	75,520	75,940	76,360	76,780	77,200	77,620	78,030	78,450	78,870	79,280	79,700	80,110	80,520	80,940	81,350	81,760	56
57	74,760	75,220	75,710	76,190	76,670	77,150	77,630	78,110	78,590	79,070	79,550	80,030	80,510	80,990	81,470	81,950	82,430	82,910	83,390	83,870	84,350	57
58	76,050	76,580	77,110	77,650	78,190	78,720	79,260	79,800	80,340	80,880	81,420	81,960	82,500	83,040	83,580	84,130	84,670	85,210	85,760	86,300	86,850	58
59	77,370	77,950	78,540	79,140	79,730	80,330	80,920	81,520	82,120	82,720	83,320	83,920	84,520	85,120	85,730	86,330	86,940	87,540	88,150	88,760	89,370	59
60	78,700	79,340	79,990	80,640	81,290	81,950	82,600	83,260	83,920	84,580	85,240	85,910	86,570	87,240	87,910	88,580	89,250	89,920	90,600	91,270	91,950	60
61	80,040	80,740	81,450	82,160	82,870	83,580	84,300	85,020	85,740	86,460	87,190	87,910	88,640	89,370	90,110	90,840	91,580	92,320	93,060	93,800	94,550	61
62	81,360	82,120	82,890	83,660	84,430	85,200	85,980	86,760	87,540	88,330	89,110	89,900	90,700	91,490	92,290	93,090	93,890	94,690	95,500	96,310	97,130	62
63	82,680	83,500	84,330	85,150	85,990	86,820	87,660	88,500	89,340	90,190	91,030	91,890	92,740	93,600	94,460	95,330	96,200	97,070	97,940	98,820	99,700	63
64	82,680	83,500	84,330	85,150	85,990	86,820	87,660	88,500	89,340	90,190	91,030	91,890	92,740	93,600	94,460	95,330	96,200	97,070	97,940	98,820	99,700	64
65	82,680	83,500	84,330	85,150	85,990	86,820	87,660	88,500	89,340	90,190	91,030	91,890	92,740	93,600	94,460	95,330	96,200	97,070	97,940	98,820	99,700	65

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1061.0	1061.1	1061.2	1061.3	1061.4	1061.5	1061.6	1061.7	1061.8	1061.9	1062.0	1062.1	1062.2	1062.3	1062.4	1062.5	1062.6	1062.7	1062.8	1062.9	1063.0	
1	730	730	730	730	730	740	740	740	740	740	740	750	750	750	750	750	760	760	760	760	760	1
2	1,520	1,520	1,530	1,530	1,540	1,540	1,550	1,550	1,550	1,560	1,560	1,570	1,570	1,580	1,580	1,580	1,590	1,590	1,600	1,600	1,600	2
3	2,280	2,280	2,290	2,300	2,300	2,310	2,310	2,320	2,330	2,330	2,340	2,350	2,350	2,360	2,360	2,370	2,380	2,380	2,390	2,390	2,400	3
4	3,040	3,050	3,050	3,060	3,070	3,080	3,090	3,100	3,100	3,110	3,120	3,130	3,140	3,150	3,150	3,160	3,170	3,180	3,190	3,190	3,200	4
5	3,750	3,760	3,770	3,780	3,800	3,810	3,820	3,830	3,840	3,850	3,860	3,870	3,880	3,890	3,900	3,910	3,920	3,930	3,940	3,950	3,960	5
6	4,520	4,540	4,550	4,560	4,570	4,590	4,600	4,610	4,620	4,640	4,650	4,660	4,670	4,690	4,700	4,710	4,720	4,730	4,750	4,760	4,770	6
7	5,270	5,280	5,300	5,310	5,330	5,340	5,350	5,370	5,380	5,400	5,410	5,430	5,440	5,460	5,470	5,480	5,500	5,510	5,530	5,540	5,550	7
8	6,040	6,060	6,080	6,090	6,110	6,130	6,140	6,160	6,180	6,190	6,210	6,230	6,240	6,260	6,270	6,290	6,310	6,320	6,340	6,360	6,370	8
9	6,820	6,840	6,860	6,880	6,900	6,920	6,930	6,950	6,970	6,990	7,010	7,030	7,050	7,060	7,080	7,100	7,120	7,140	7,160	7,170	7,190	9
10	8,100	8,120	8,150	8,170	8,190	8,210	8,240	8,260	8,280	8,300	8,330	8,350	8,370	8,390	8,410	8,440	8,460	8,480	8,500	8,520	8,550	10
11	9,370	9,400	9,430	9,450	9,480	9,510	9,530	9,560	9,590	9,610	9,640	9,660	9,690	9,720	9,740	9,770	9,790	9,820	9,840	9,870	9,900	11
12	10,660	10,690	10,720	10,750	10,780	10,810	10,840	10,870	10,900	10,930	10,960	10,990	11,020	11,050	11,080	11,110	11,130	11,160	11,190	11,220	11,250	12
13	11,930	11,960	11,990	12,030	12,060	12,100	12,130	12,160	12,200	12,230	12,270	12,300	12,330	12,370	12,400	12,430	12,470	12,500	12,530	12,560	12,600	13
14	13,200	13,240	13,280	13,320	13,350	13,390	13,430	13,470	13,500	13,540	13,580	13,620	13,650	13,690	13,730	13,760	13,800	13,840	13,870	13,910	13,950	14
15	14,480	14,520	14,570	14,610	14,650	14,690	14,730	14,770	14,810	14,860	14,900	14,940	14,980	15,020	15,060	15,100	15,140	15,180	15,220	15,260	15,300	15
16	15,760	15,810	15,860	15,900	15,950	15,990	16,040	16,080	16,130	16,170	16,220	16,260	16,310	16,350	16,400	16,440	16,480	16,530	16,570	16,620	16,660	16
17	17,040	17,090	17,140	17,190	17,240	17,290	17,340	17,390	17,440	17,480	17,530	17,580	17,630	17,680	17,730	17,770	17,820	17,870	17,920	17,960	18,010	17
18	18,310	18,360	18,420	18,470	18,520	18,570	18,630	18,680	18,730	18,790	18,840	18,890	18,940	18,990	19,050	19,100	19,150	19,200	19,250	19,300	19,350	18
19	19,540	19,590	19,650	19,710	19,770	19,820	19,880	19,940	19,990	20,050	20,110	20,160	20,220	20,270	20,330	20,380	20,440	20,500	20,550	20,600	20,660	19
20	20,770	20,830	20,890	20,960	21,020	21,080	21,140	21,200	21,260	21,320	21,380	21,440	21,500	21,560	21,620	21,680	21,740	21,800	21,860	21,920	21,980	20
21	22,000	22,060	22,130	22,190	22,260	22,320	22,390	22,450	22,520	22,580	22,650	22,710	22,780	22,840	22,900	22,970	23,030	23,090	23,150	23,220	23,280	21
22	23,220	23,290	23,360	23,430	23,500	23,570	23,630	23,700	23,770	23,840	23,910	23,980	24,040	24,110	24,180	24,250	24,310	24,380	24,450	24,510	24,580	22
23	24,430	24,500	24,570	24,650	24,720	24,800	24,870	24,940	25,010	25,090	25,160	25,230	25,300	25,370	25,440	25,520	25,590	25,660	25,730	25,800	25,870	23
24	25,650	25,730	25,810	25,890	25,960	26,040	26,120	26,190	26,270	26,350	26,420	26,500	26,570	26,650	26,730	26,800	26,880	26,950	27,020	27,100	27,170	24
25	26,880	26,960	27,040	27,120	27,200	27,290	27,370	27,450	27,530	27,610	27,690	27,770	27,850	27,930	28,010	28,090	28,160	28,240	28,320	28,400	28,480	25
26	28,100	28,190	28,270	28,360	28,440	28,530	28,610	28,700	28,780	28,870	28,950	29,040	29,120	29,200	29,290	29,370	29,450	29,530	29,620	29,700	29,780	26
27	29,330	29,420	29,510	29,600	29,690	29,780	29,870	29,960	30,050	30,140	30,220	30,310	30,400	30,490	30,570	30,660	30,750	30,830	30,920	31,000	31,090	27
28	30,650	30,750	30,840	30,940	31,030	31,120	31,220	31,310	31,410	31,500	31,590	31,680	31,780	31,870	31,960	32,050	32,140	32,230	32,320	32,410	32,500	28
29	31,980	32,080	32,180	32,280	32,380	32,480	32,570	32,670	32,770	32,870	32,970	33,060	33,160	33,260	33,350	33,450	33,550	33,640	33,740	33,830	33,930	29
30	33,300	33,410	33,510	33,620	33,720	33,820	33,930	34,030	34,130	34,240	34,340	34,440	34,540	34,640	34,740	34,840	34,940	35,040	35,140	35,240	35,340	30
31	34,600	34,710	34,820	34,930	35,040	35,150	35,260	35,370	35,470	35,580	35,690	35,790	35,900	36,010	36,110	36,220	36,320	36,430	36,530	36,630	36,740	31
32	35,910	36,020	36,140	36,250	36,360	36,480	36,590	36,700	36,820	36,930	37,040	37,150	37,260	37,370	37,480	37,590	37,700	37,810	37,920	38,030	38,140	32
33	37,230	37,350	37,470	37,590	37,710	37,830	37,940	38,060	38,180	38,290	38,410	38,530	38,640	38,760	38,870	38,990	39,100	39,210	39,330	39,440	39,550	33
34	38,550	38,680	38,800	38,920	39,050	39,170	39,290	39,410	39,540	39,660	39,780	39,900	40,020	40,140	40,260	40,380	40,500	40,610	40,730	40,850	40,970	34
35	39,880	40,010	40,140	40,260	40,390	40,520	40,650	40,770	40,900	41,030	41,150	41,280	41,400	41,530	41,650	41,770	41,900	42,020	42,140	42,270	42,390	35
36	41,200	41,340	41,470	41,600	41,740	41,870	42,000	42,130	42,260	42,390	42,520	42,650	42,780	42,910	43,040	43,170	43,300	43,430	43,550	43,680	43,810	36
37	42,990	43,140	43,280	43,420	43,560	43,700	43,850	43,990	44,130	44,270	44,410	44,540	44,680	44,820	44,960	45,100	45,230	45,370	45,500	45,640	45,770	37
38	44,770	44,920	45,080	45,230	45,380	45,530	45,680	45,830	45,980	46,130	46,270	46,420	46,570	46,720	46,860	47,010	47,150	47,300	47,440	47,590	47,730	38
39	46,560	46,720	46,880	47,040	47,200	47,360	47,520	47,680	47,840	48,000	48,150	48,310	48,470	48,620	48,780	48,930	49,090	49,240	49,390	49,550	49,700	39
40	48,310	48,480	48,650	48,820	48,990	49,150	49,320	49,490	49,660	49,820	49,990	50,150	50,320	50,480	50,650	50,810	50,970	51,140	51,300	51,460	51,620	40
41	50,070	50,250	50,430	50,600	50,780	50,960	51,140	51,310	51,490	51,660	51,840	52,010	52,180	52,360	52,530	52,700	52,870	53,050	53,220	53,390	53,560	41
42	51,850	52,040	52,230	52,420	52,600	52,790	52,980	53,160	53,350	53,530	53,710	53,900	54,080	54,260	54,440	54,620	54,800	54,980	55,160	55,340	55,520	42
43	53,650	53,840	54,040	54,240	54,430	54,630	54,820	55,020	55,210	55,400	55,600	55,790	55,980	56,170	56,360	56,550	56,740	56,930	57,120	57,300	57,490	43
44	55,430	55,640	55,850	56,050	56,260	56,460	56,660	56,870	57,070	57,270	57,470	57,670	57,870	58,070	58,270	58,470	58,670	58,870	59,060	59,260	59,460	44
45	57,220	57,440	57,650	57,870	58,080	58,300	58,510	58,720	58,930	59,140	59,350	59,560	59,770	59,980	60,190	60,400	60,600	60,810	61,020	61,220	61,430	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1061.0	1061.1	1061.2	1061.3	1061.4	1061.5	1061.6	1061.7	1061.8	1061.9	1062.0	1062.1	1062.2	1062.3	1062.4	1062.5	1062.6	1062.7	1062.8	1062.9	1063.0	
46	59,390	59,610	59,830	60,050	60,270	60,490	60,710	60,930	61,150	61,360	61,580	61,800	62,020	62,240	62,460	62,680	62,890	63,110	63,330	63,540	63,760	46
47	61,550	61,780	62,010	62,240	62,460	62,690	62,910	63,140	63,360	63,580	63,810	64,030	64,260	64,490	64,720	64,950	65,180	65,410	65,630	65,860	66,080	47
48	63,720	63,950	64,190	64,420	64,650	64,890	65,120	65,350	65,580	65,810	66,030	66,270	66,510	66,750	66,990	67,230	67,470	67,710	67,940	68,180	68,410	48
49	65,810	66,050	66,290	66,530	66,770	67,010	67,250	67,490	67,720	67,960	68,190	68,440	68,690	68,940	69,190	69,440	69,680	69,930	70,180	70,430	70,670	49
50	67,910	68,160	68,410	68,660	68,900	69,150	69,390	69,630	69,870	70,110	70,360	70,610	70,870	71,130	71,390	71,650	71,910	72,170	72,430	72,680	72,940	50
51	70,080	70,340	70,590	70,850	71,100	71,350	71,600	71,850	72,090	72,340	72,590	72,850	73,120	73,400	73,670	73,940	74,210	74,470	74,740	75,010	75,270	51
52	72,250	72,520	72,780	73,040	73,300	73,550	73,810	74,060	74,320	74,570	74,820	75,100	75,380	75,660	75,940	76,220	76,500	76,780	77,060	77,330	77,610	52
53	74,420	74,690	74,960	75,220	75,490	75,750	76,010	76,270	76,530	76,790	77,050	77,330	77,630	77,920	78,210	78,500	78,790	79,080	79,370	79,660	79,940	53
54	76,590	76,870	77,140	77,410	77,680	77,950	78,220	78,490	78,750	79,020	79,280	79,570	79,880	80,180	80,480	80,780	81,080	81,380	81,680	81,980	82,280	54
55	79,210	79,550	79,900	80,240	80,580	80,920	81,260	81,600	81,940	82,270	82,520	82,790	83,060	83,340	83,610	83,890	84,170	84,440	84,720	84,990	85,280	55
56	81,760	82,170	82,590	83,000	83,410	83,820	84,230	84,640	85,050	85,450	85,780	86,040	86,290	86,540	86,790	87,030	87,290	87,540	87,790	88,040	88,300	56
57	84,350	84,830	85,310	85,790	86,270	86,750	87,230	87,710	88,190	88,670	89,040	89,280	89,500	89,720	89,940	90,160	90,390	90,620	90,850	91,080	91,320	57
58	86,850	87,390	87,940	88,480	89,030	89,580	90,130	90,680	91,230	91,780	92,170	92,390	92,580	92,770	92,960	93,160	93,370	93,580	93,780	93,980	94,210	58
59	89,370	89,980	90,590	91,210	91,820	92,430	93,050	93,670	94,290	94,900	95,290	95,480	95,640	95,810	95,970	96,140	96,330	96,520	96,700	96,880	97,090	59
60	91,950	92,630	93,310	93,990	94,670	95,360	96,050	96,730	97,420	98,120	98,560	98,730	98,870	99,000	99,140	99,280	99,450	99,610	99,770	99,930	100,100	60
61	94,550	95,290	96,040	96,790	97,550	98,300	99,060	99,820	100,600	101,300	101,800	102,000	102,100	102,200	102,300	102,400	102,600	102,700	102,800	103,000	103,100	61
62	97,130	97,940	98,760	99,580	100,400	101,200	102,100	102,900	103,700	104,600	105,100	105,200	105,300	105,400	105,500	105,500	105,700	105,800	105,900	106,000	106,100	62
63	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,400	108,500	108,500	108,600	108,600	108,700	108,800	108,900	109,000	109,000	109,200	63
64	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,500	108,600	108,800	108,900	109,100	109,200	109,400	109,600	109,800	110,000	110,200	64
65	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,500	108,700	109,000	109,200	109,400	109,700	110,000	110,300	110,600	110,800	111,100	65
66	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,500	108,800	109,200	109,500	109,900	110,200	110,600	111,000	111,300	111,700	112,100	66
67	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,500	109,000	109,400	109,800	110,300	110,700	111,200	111,700	112,100	112,600	113,100	67
68	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,600	109,100	109,700	110,200	110,700	111,300	111,800	112,400	112,900	113,500	114,100	68
69	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,600	109,200	109,900	110,500	111,100	111,800	112,400	113,100	113,700	114,400	115,000	69
70	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,600	109,400	110,100	110,800	111,600	112,300	113,000	113,800	114,500	115,300	116,000	70
71	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,700	109,500	110,300	111,100	112,000	112,800	113,600	114,500	115,300	116,100	117,000	71
72	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,700	109,600	110,500	111,400	112,300	113,300	114,200	115,100	116,100	117,000	118,000	72
73	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,700	109,600	110,500	111,400	112,300	113,300	114,200	115,100	116,100	117,000	118,000	73
74	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,700	109,600	110,500	111,400	112,300	113,300	114,200	115,100	116,100	117,000	118,000	74
75	99,700	100,600	101,500	102,400	103,300	104,100	105,000	105,900	106,900	107,800	108,700	109,600	110,500	111,400	112,300	113,300	114,200	115,100	116,100	117,000	118,000	75

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1063.0	1063.1	1063.2	1063.3	1063.4	1063.5	1063.6	1063.7	1063.8	1063.9	1064.0	1064.1	1064.2	1064.3	1064.4	1064.5	1064.6	1064.7	1064.8	1064.9	1065.0	
1	760	770	770	770	770	770	780	780	780	780	780	790	790	790	790	790	790	800	800	800	800	1
2	1,600	1,610	1,610	1,620	1,620	1,620	1,630	1,630	1,640	1,640	1,640	1,650	1,650	1,660	1,660	1,660	1,670	1,670	1,670	1,680	1,680	2
3	2,400	2,410	2,410	2,420	2,420	2,430	2,440	2,440	2,450	2,450	2,460	2,470	2,470	2,480	2,480	2,490	2,490	2,500	2,510	2,510	2,520	3
4	3,200	3,210	3,220	3,230	3,230	3,240	3,250	3,260	3,270	3,270	3,280	3,290	3,300	3,310	3,310	3,320	3,330	3,340	3,340	3,350	3,360	4
5	3,960	3,970	3,980	3,990	4,000	4,010	4,020	4,030	4,040	4,050	4,060	4,070	4,080	4,090	4,090	4,100	4,110	4,120	4,130	4,140	4,150	5
6	4,770	4,780	4,790	4,810	4,820	4,830	4,840	4,850	4,870	4,880	4,890	4,900	4,910	4,920	4,940	4,950	4,960	4,970	4,980	4,990	5,000	6
7	5,550	5,570	5,580	5,600	5,610	5,620	5,640	5,650	5,660	5,680	5,690	5,710	5,720	5,730	5,750	5,760	5,770	5,790	5,800	5,810	5,830	7
8	6,370	6,390	6,400	6,420	6,440	6,450	6,470	6,480	6,500	6,510	6,530	6,550	6,560	6,580	6,590	6,610	6,620	6,640	6,650	6,670	6,680	8
9	7,190	7,210	7,230	7,250	7,260	7,280	7,300	7,320	7,340	7,350	7,370	7,390	7,410	7,420	7,440	7,460	7,480	7,490	7,510	7,530	7,550	9
10	8,550	8,570	8,590	8,610	8,630	8,650	8,670	8,700	8,720	8,740	8,760	8,780	8,800	8,820	8,840	8,870	8,890	8,910	8,930	8,950	8,970	10
11	9,900	9,920	9,950	9,970	10,000	10,020	10,050	10,070	10,100	10,120	10,150	10,170	10,200	10,220	10,240	10,270	10,290	10,320	10,340	10,370	10,390	11
12	11,250	11,280	11,310	11,340	11,370	11,400	11,420	11,450	11,480	11,510	11,540	11,570	11,590	11,620	11,650	11,680	11,710	11,730	11,760	11,790	11,820	12
13	12,600	12,630	12,660	12,690	12,730	12,760	12,790	12,820	12,850	12,890	12,920	12,950	12,980	13,010	13,050	13,080	13,110	13,140	13,170	13,200	13,230	13
14	13,950	13,980	14,020	14,060	14,090	14,130	14,160	14,200	14,230	14,270	14,300	14,340	14,380	14,410	14,450	14,480	14,520	14,550	14,580	14,620	14,650	14
15	15,300	15,340	15,380	15,420	15,460	15,500	15,540	15,580	15,620	15,660	15,700	15,730	15,770	15,810	15,850	15,890	15,930	15,970	16,000	16,040	16,080	15
16	16,660	16,700	16,750	16,790	16,830	16,880	16,920	16,960	17,000	17,050	17,090	17,130	17,170	17,220	17,260	17,300	17,340	17,380	17,430	17,470	17,510	16
17	18,010	18,060	18,110	18,150	18,200	18,250	18,290	18,340	18,380	18,430	18,480	18,520	18,570	18,610	18,660	18,710	18,750	18,800	18,840	18,890	18,930	17
18	19,350	19,400	19,450	19,500	19,550	19,610	19,660	19,710	19,750	19,800	19,850	19,900	19,950	20,000	20,050	20,100	20,150	20,200	20,250	20,300	20,340	18
19	20,660	20,710	20,770	20,820	20,880	20,930	20,990	21,040	21,090	21,150	21,200	21,250	21,310	21,360	21,410	21,460	21,520	21,570	21,620	21,670	21,730	19
20	21,980	22,030	22,090	22,150	22,210	22,270	22,320	22,380	22,440	22,500	22,550	22,610	22,670	22,720	22,780	22,840	22,890	22,950	23,010	23,060	23,120	20
21	23,280	23,340	23,400	23,470	23,530	23,590	23,650	23,710	23,770	23,840	23,900	23,960	24,020	24,080	24,140	24,200	24,260	24,320	24,380	24,440	24,500	21
22	24,580	24,650	24,710	24,780	24,840	24,910	24,970	25,040	25,100	25,170	25,230	25,300	25,360	25,430	25,490	25,550	25,620	25,680	25,750	25,810	25,870	22
23	25,870	25,940	26,010	26,080	26,150	26,220	26,280	26,350	26,420	26,490	26,560	26,630	26,700	26,760	26,830	26,900	26,970	27,030	27,100	27,170	27,230	23
24	27,170	27,250	27,320	27,390	27,470	27,540	27,610	27,690	27,760	27,830	27,900	27,970	28,050	28,120	28,190	28,260	28,330	28,400	28,470	28,540	28,610	24
25	28,480	28,550	28,630	28,710	28,790	28,860	28,940	29,020	29,090	29,170	29,240	29,320	29,400	29,470	29,550	29,620	29,690	29,770	29,840	29,920	29,990	25
26	29,780	29,860	29,940	30,020	30,100	30,180	30,260	30,340	30,420	30,500	30,580	30,660	30,740	30,820	30,900	30,980	31,060	31,140	31,210	31,290	31,370	26
27	31,090	31,180	31,260	31,350	31,430	31,510	31,600	31,680	31,770	31,850	31,930	32,020	32,100	32,180	32,260	32,350	32,430	32,510	32,590	32,670	32,750	27
28	32,500	32,590	32,680	32,770	32,860	32,950	33,040	33,130	33,220	33,300	33,390	33,480	33,570	33,650	33,740	33,830	33,910	34,000	34,090	34,170	34,260	28
29	33,930	34,020	34,110	34,210	34,300	34,400	34,490	34,580	34,670	34,770	34,860	34,950	35,040	35,130	35,230	35,320	35,410	35,500	35,590	35,680	35,770	29
30	35,340	35,440	35,540	35,640	35,740	35,840	35,930	36,030	36,130	36,220	36,320	36,420	36,510	36,610	36,700	36,800	36,900	36,990	37,080	37,180	37,270	30
31	36,740	36,840	36,940	37,050	37,150	37,250	37,350	37,460	37,560	37,660	37,760	37,860	37,960	38,060	38,160	38,260	38,360	38,460	38,560	38,660	38,750	31
32	38,140	38,240	38,350	38,460	38,570	38,670	38,780	38,880	38,990	39,100	39,200	39,310	39,410	39,520	39,620	39,720	39,830	39,930	40,030	40,140	40,240	32
33	39,550	39,660	39,780	39,890	40,000	40,110	40,220	40,330	40,440	40,550	40,660	40,770	40,880	40,990	41,100	41,210	41,320	41,420	41,530	41,640	41,740	33
34	40,970	41,080	41,200	41,320	41,430	41,550	41,660	41,780	41,890	42,010	42,120	42,240	42,350	42,460	42,580	42,690	42,800	42,910	43,020	43,140	43,250	34
35	42,390	42,510	42,630	42,750	42,870	42,990	43,110	43,230	43,350	43,470	43,590	43,710	43,820	43,940	44,060	44,180	44,290	44,410	44,520	44,640	44,760	35
36	43,810	43,930	44,060	44,180	44,310	44,430	44,560	44,680	44,800	44,930	45,050	45,170	45,300	45,420	45,540	45,660	45,780	45,900	46,020	46,140	46,260	36
37	45,770	45,910	46,040	46,180	46,310	46,440	46,570	46,700	46,830	46,960	47,090	47,220	47,350	47,480	47,610	47,740	47,870	47,990	48,120	48,250	48,370	37
38	47,730	47,870	48,020	48,160	48,300	48,440	48,570	48,710	48,850	48,990	49,120	49,260	49,400	49,530	49,670	49,800	49,940	50,070	50,210	50,340	50,470	38
39	49,700	49,850	50,000	50,150	50,300	50,440	50,590	50,730	50,880	51,020	51,170	51,310	51,450	51,600	51,740	51,880	52,020	52,160	52,300	52,440	52,580	39
40	51,620	51,780	51,940	52,090	52,250	52,400	52,550	52,710	52,860	53,010	53,160	53,310	53,460	53,610	53,760	53,910	54,050	54,200	54,350	54,500	54,640	40
41	53,560	53,730	53,890	54,050	54,210	54,370	54,530	54,690	54,850	55,010	55,170	55,320	55,480	55,640	55,790	55,950	56,100	56,260	56,410	56,570	56,720	41
42	55,520	55,700	55,870	56,040	56,210	56,380	56,540	56,710	56,870	57,040	57,200	57,370	57,530	57,700	57,860	58,020	58,180	58,340	58,500	58,660	58,830	42
43	57,490	57,680	57,860	58,040	58,210	58,390	58,560	58,730	58,910	59,080	59,250	59,420	59,590	59,760	59,930	60,100	60,270	60,440	60,600	60,770	60,940	43
44	59,460	59,650	59,840	60,030	60,210	60,390	60,570	60,750	60,930	61,110	61,290	61,470	61,640	61,820	62,000	62,170	62,350	62,520	62,700	62,870	63,050	44
45	61,430	61,630	61,830	62,020	62,210	62,400	62,580	62,770	62,960	63,150	63,330	63,520	63,700	63,880	64,070	64,250	64,430	64,610	64,800	64,980	65,160	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1063.0	1063.1	1063.2	1063.3	1063.4	1063.5	1063.6	1063.7	1063.8	1063.9	1064.0	1064.1	1064.2	1064.3	1064.4	1064.5	1064.6	1064.7	1064.8	1064.9	1065.0	
46	63,760	63,970	64,180	64,380	64,590	64,790	64,980	65,180	65,380	65,580	65,780	65,970	66,170	66,360	66,560	66,750	66,950	67,140	67,330	67,520	67,720	46
47	66,080	66,310	66,530	66,740	66,950	67,170	67,380	67,590	67,800	68,010	68,210	68,420	68,630	68,840	69,040	69,250	69,450	69,660	69,860	70,060	70,270	47
48	68,410	68,650	68,880	69,110	69,330	69,550	69,780	70,000	70,220	70,440	70,660	70,880	71,100	71,310	71,530	71,750	71,960	72,180	72,390	72,610	72,820	48
49	70,670	70,920	71,160	71,390	71,630	71,860	72,100	72,330	72,560	72,790	73,020	73,250	73,480	73,710	73,940	74,170	74,400	74,620	74,850	75,070	75,300	49
50	72,940	73,190	73,440	73,690	73,940	74,180	74,430	74,670	74,920	75,160	75,400	75,640	75,880	76,120	76,360	76,600	76,840	77,080	77,310	77,550	77,780	50
51	75,270	75,540	75,800	76,060	76,320	76,570	76,830	77,090	77,340	77,600	77,850	78,100	78,350	78,610	78,860	79,110	79,360	79,600	79,850	80,100	80,350	51
52	77,610	77,890	78,160	78,430	78,700	78,970	79,240	79,500	79,770	80,040	80,300	80,560	80,830	81,090	81,350	81,610	81,870	82,130	82,390	82,650	82,910	52
53	79,940	80,230	80,510	80,790	81,070	81,360	81,630	81,910	82,190	82,470	82,740	83,020	83,300	83,570	83,840	84,110	84,390	84,660	84,930	85,200	85,470	53
54	82,280	82,570	82,870	83,160	83,450	83,740	84,040	84,330	84,620	84,900	85,190	85,480	85,760	86,050	86,330	86,620	86,900	87,180	87,460	87,740	88,020	54
55	85,280	85,560	85,840	86,130	86,410	86,690	86,960	87,240	87,520	87,790	88,080	88,380	88,670	88,960	89,250	89,540	89,830	90,120	90,400	90,690	90,970	55
56	88,300	88,570	88,840	89,110	89,380	89,650	89,910	90,170	90,440	90,700	90,980	91,270	91,570	91,870	92,160	92,460	92,750	93,050	93,340	93,630	93,920	56
57	91,320	91,570	91,830	92,090	92,340	92,600	92,850	93,100	93,350	93,590	93,870	94,170	94,470	94,770	95,080	95,380	95,680	95,980	96,280	96,570	96,870	57
58	94,210	94,450	94,700	94,940	95,190	95,430	95,670	95,900	96,140	96,370	96,630	96,940	97,250	97,560	97,870	98,180	98,480	98,790	99,090	99,390	99,690	58
59	97,090	97,320	97,560	97,790	98,020	98,250	98,470	98,700	98,920	99,140	99,410	99,720	100,000	100,400	100,700	101,000	101,300	101,600	101,900	102,200	102,500	59
60	100,100	100,300	100,600	100,800	101,000	101,200	101,400	101,600	101,800	102,000	102,300	102,600	102,900	103,300	103,600	103,900	104,200	104,500	104,900	105,200	105,500	60
61	103,100	103,300	103,600	103,800	104,000	104,200	104,400	104,600	104,800	104,900	105,200	105,500	105,900	106,200	106,500	106,800	107,200	107,500	107,800	108,100	108,400	61
62	106,100	106,300	106,500	106,700	106,900	107,100	107,300	107,500	107,700	107,800	108,100	108,400	108,800	109,100	109,400	109,800	110,100	110,400	110,700	111,100	111,400	62
63	109,200	109,400	109,500	109,700	109,900	110,100	110,300	110,400	110,600	110,800	111,000	111,300	111,700	112,000	112,300	112,700	113,000	113,300	113,700	114,000	114,300	63
64	110,200	110,500	110,700	111,000	111,300	111,500	111,800	112,100	112,300	112,600	112,900	113,300	113,700	114,100	114,500	114,900	115,300	115,700	116,100	116,600	117,000	64
65	111,100	111,500	111,800	112,200	112,600	112,900	113,300	113,600	114,000	114,300	114,700	115,200	115,700	116,100	116,600	117,100	117,600	118,100	118,600	119,000	119,500	65
66	112,100	112,600	113,000	113,400	113,900	114,300	114,800	115,200	115,600	116,100	116,500	117,100	117,700	118,200	118,800	119,300	119,900	120,400	121,000	121,600	122,100	66
67	113,100	113,600	114,100	114,600	115,200	115,700	116,200	116,700	117,300	117,800	118,300	119,000	119,600	120,200	120,800	121,500	122,100	122,700	123,300	124,000	124,600	67
68	114,100	114,700	115,300	115,900	116,500	117,100	117,700	118,300	118,900	119,500	120,100	120,800	121,500	122,200	122,900	123,600	124,300	125,000	125,700	126,400	127,100	68
69	115,000	115,700	116,400	117,100	117,800	118,500	119,200	119,900	120,600	121,300	122,000	122,800	123,500	124,300	125,100	125,800	126,600	127,400	128,100	128,900	129,700	69
70	116,000	116,800	117,600	118,300	119,100	119,900	120,700	121,500	122,300	123,100	123,900	124,700	125,500	126,400	127,200	128,000	128,900	129,700	130,600	131,400	132,300	70
71	117,000	117,800	118,700	119,600	120,400	121,300	122,200	123,100	123,900	124,800	125,700	126,600	127,500	128,400	129,300	130,300	131,200	132,100	133,000	133,900	134,900	71
72	118,000	118,900	119,800	120,800	121,800	122,700	123,700	124,600	125,600	126,600	127,500	128,500	129,500	130,500	131,500	132,500	133,400	134,400	135,400	136,400	137,400	72
73	118,000	118,900	119,800	120,800	121,800	122,700	123,700	124,600	125,600	126,600	127,500	128,500	129,500	130,500	131,500	132,500	133,400	134,400	135,400	136,400	137,400	73
74	118,000	118,900	119,800	120,800	121,800	122,700	123,700	124,600	125,600	126,600	127,500	128,500	129,500	130,500	131,500	132,500	133,400	134,400	135,400	136,400	137,400	74
75	118,000	118,900	119,800	120,800	121,800	122,700	123,700	124,600	125,600	126,600	127,500	128,500	129,500	130,500	131,500	132,500	133,400	134,400	135,400	136,400	137,400	75

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1065.0	1065.1	1065.2	1065.3	1065.4	1065.5	1065.6	1065.7	1065.8	1065.9	1066.0	1066.1	1066.2	1066.3	1066.4	1066.5	1066.6	1066.7	1066.8	1066.9	1067.0	
1	800	800	810	810	810	810	810	810	820	820	820	820	820	830	830	830	830	830	830	840	840	1
2	1,680	1,690	1,690	1,690	1,700	1,700	1,710	1,710	1,710	1,720	1,720	1,720	1,730	1,730	1,740	1,740	1,740	1,750	1,750	1,750	1,760	2
3	2,520	2,520	2,530	2,540	2,540	2,550	2,550	2,560	2,560	2,570	2,570	2,580	2,590	2,590	2,600	2,600	2,610	2,610	2,620	2,630	2,630	3
4	3,360	3,370	3,380	3,380	3,390	3,400	3,410	3,410	3,420	3,430	3,440	3,440	3,450	3,460	3,470	3,470	3,480	3,490	3,500	3,500	3,510	4
5	4,150	4,160	4,170	4,180	4,190	4,200	4,210	4,220	4,230	4,240	4,250	4,260	4,260	4,270	4,280	4,290	4,300	4,310	4,320	4,330	4,340	5
6	5,000	5,020	5,030	5,040	5,050	5,060	5,070	5,080	5,090	5,110	5,120	5,130	5,140	5,150	5,160	5,170	5,180	5,190	5,210	5,220	5,230	6
7	5,830	5,840	5,850	5,870	5,880	5,890	5,910	5,920	5,930	5,940	5,960	5,970	5,980	6,000	6,010	6,020	6,040	6,050	6,060	6,070	6,090	7
8	6,680	6,700	6,710	6,730	6,740	6,760	6,780	6,790	6,810	6,820	6,840	6,850	6,860	6,880	6,890	6,910	6,920	6,940	6,950	6,970	6,980	8
9	7,550	7,560	7,580	7,600	7,610	7,630	7,650	7,670	7,680	7,700	7,720	7,730	7,750	7,770	7,780	7,800	7,820	7,830	7,850	7,870	7,880	9
10	8,970	8,990	9,010	9,030	9,050	9,070	9,090	9,110	9,130	9,150	9,170	9,190	9,210	9,230	9,250	9,270	9,290	9,310	9,330	9,350	9,370	10
11	10,390	10,410	10,440	10,460	10,490	10,510	10,530	10,560	10,580	10,610	10,630	10,650	10,680	10,700	10,720	10,750	10,770	10,790	10,820	10,840	10,860	11
12	11,820	11,850	11,870	11,900	11,930	11,950	11,980	12,010	12,040	12,060	12,090	12,120	12,140	12,170	12,200	12,220	12,250	12,280	12,300	12,330	12,360	12
13	13,230	13,260	13,290	13,330	13,360	13,390	13,420	13,450	13,480	13,510	13,540	13,570	13,600	13,630	13,660	13,690	13,720	13,750	13,780	13,810	13,840	13
14	14,650	14,690	14,720	14,760	14,790	14,830	14,860	14,890	14,930	14,960	15,000	15,030	15,060	15,100	15,130	15,160	15,200	15,230	15,260	15,300	15,330	14
15	16,080	16,120	16,160	16,190	16,230	16,270	16,310	16,340	16,380	16,420	16,460	16,490	16,530	16,570	16,600	16,640	16,680	16,710	16,750	16,790	16,820	15
16	17,510	17,550	17,590	17,630	17,670	17,720	17,760	17,800	17,840	17,880	17,920	17,960	18,000	18,040	18,080	18,120	18,160	18,200	18,240	18,280	18,320	16
17	18,930	18,980	19,020	19,070	19,110	19,150	19,200	19,240	19,290	19,330	19,380	19,420	19,460	19,510	19,550	19,590	19,640	19,680	19,720	19,770	19,810	17
18	20,340	20,390	20,440	20,490	20,540	20,580	20,630	20,680	20,730	20,770	20,820	20,870	20,920	20,960	21,010	21,060	21,100	21,150	21,200	21,240	21,290	18
19	21,730	21,780	21,830	21,880	21,930	21,980	22,040	22,090	22,140	22,190	22,240	22,290	22,340	22,390	22,440	22,490	22,540	22,590	22,640	22,690	22,740	19
20	23,120	23,170	23,230	23,280	23,340	23,390	23,450	23,500	23,560	23,610	23,670	23,720	23,780	23,830	23,880	23,940	23,990	24,050	24,100	24,150	24,210	20
21	24,500	24,560	24,610	24,670	24,730	24,790	24,850	24,910	24,970	25,020	25,080	25,140	25,200	25,260	25,310	25,370	25,430	25,480	25,540	25,600	25,660	21
22	25,870	25,930	26,000	26,060	26,120	26,180	26,250	26,310	26,370	26,430	26,490	26,550	26,620	26,680	26,740	26,800	26,860	26,920	26,980	27,040	27,100	22
23	27,230	27,300	27,370	27,430	27,500	27,560	27,630	27,690	27,760	27,830	27,890	27,960	28,020	28,080	28,150	28,210	28,280	28,340	28,410	28,470	28,530	23
24	28,610	28,680	28,750	28,820	28,890	28,960	29,030	29,100	29,170	29,240	29,310	29,370	29,440	29,510	29,580	29,650	29,710	29,780	29,850	29,920	29,980	24
25	29,990	30,070	30,140	30,210	30,290	30,360	30,430	30,500	30,580	30,650	30,720	30,790	30,860	30,940	31,010	31,080	31,150	31,220	31,290	31,360	31,430	25
26	31,370	31,450	31,520	31,600	31,680	31,750	31,830	31,910	31,980	32,060	32,130	32,210	32,280	32,360	32,430	32,510	32,580	32,660	32,730	32,810	32,880	26
27	32,750	32,840	32,920	33,000	33,080	33,160	33,240	33,320	33,400	33,480	33,560	33,640	33,710	33,790	33,870	33,950	34,030	34,110	34,180	34,260	34,340	27
28	34,260	34,340	34,430	34,510	34,600	34,680	34,760	34,850	34,930	35,020	35,100	35,180	35,270	35,350	35,430	35,510	35,600	35,680	35,760	35,840	35,920	28
29	35,770	35,860	35,950	36,040	36,120	36,210	36,300	36,390	36,480	36,570	36,650	36,740	36,830	36,920	37,000	37,090	37,180	37,260	37,350	37,430	37,520	29
30	37,270	37,370	37,460	37,550	37,650	37,740	37,830	37,930	38,020	38,110	38,200	38,290	38,380	38,480	38,570	38,660	38,750	38,840	38,930	39,020	39,110	30
31	38,750	38,850	38,950	39,050	39,150	39,240	39,340	39,440	39,530	39,630	39,720	39,820	39,920	40,010	40,110	40,200	40,300	40,390	40,480	40,580	40,670	31
32	40,240	40,340	40,440	40,540	40,650	40,750	40,850	40,950	41,050	41,150	41,250	41,350	41,450	41,550	41,650	41,750	41,850	41,940	42,040	42,140	42,240	32
33	41,740	41,850	41,960	42,060	42,170	42,270	42,380	42,480	42,590	42,690	42,800	42,900	43,010	43,110	43,210	43,320	43,420	43,520	43,620	43,720	43,830	33
34	43,250	43,360	43,470	43,580	43,690	43,800	43,910	44,020	44,130	44,230	44,340	44,450	44,560	44,670	44,770	44,880	44,990	45,090	45,200	45,310	45,410	34
35	44,760	44,870	44,990	45,100	45,210	45,330	45,440	45,560	45,670	45,780	45,890	46,010	46,120	46,230	46,340	46,450	46,560	46,670	46,780	46,890	47,000	35
36	46,260	46,380	46,500	46,620	46,740	46,860	46,970	47,090	47,210	47,330	47,440	47,560	47,680	47,790	47,910	48,020	48,140	48,250	48,370	48,480	48,590	36
37	48,370	48,500	48,620	48,750	48,880	49,000	49,130	49,250	49,370	49,500	49,620	49,740	49,870	49,990	50,110	50,230	50,350	50,470	50,600	50,720	50,840	37
38	50,470	50,610	50,740	50,870	51,000	51,130	51,260	51,400	51,530	51,660	51,790	51,920	52,040	52,170	52,300	52,430	52,560	52,690	52,810	52,940	53,070	38
39	52,580	52,720	52,860	53,000	53,140	53,280	53,420	53,550	53,690	53,830	53,960	54,100	54,240	54,370	54,510	54,640	54,780	54,910	55,040	55,180	55,310	39
40	54,640	54,790	54,940	55,080	55,230	55,370	55,520	55,660	55,800	55,950	56,090	56,230	56,370	56,520	56,660	56,800	56,940	57,080	57,220	57,360	57,500	40
41	56,720	56,870	57,020	57,180	57,330	57,480	57,630	57,780	57,930	58,080	58,230	58,380	58,530	58,680	58,820	58,970	59,120	59,260	59,410	59,560	59,700	41
42	58,830	58,980	59,140	59,300	59,460	59,620	59,780	59,930	60,090	60,250	60,400	60,560	60,710	60,870	61,020	61,180	61,330	61,480	61,640	61,790	61,940	42
43	60,940	61,100	61,270	61,440	61,600	61,770	61,930	62,090	62,260	62,420	62,580	62,740	62,910	63,070	63,230	63,390	63,550	63,710	63,870	64,030	64,180	43
44	63,050	63,220	63,390	63,560	63,740	63,910	64,080	64,250	64,420	64,590	64,760	64,930	65,090	65,260	65,430	65,600	65,760	65,930	66,090	66,260	66,420	44
45	65,160	65,340	65,520	65,700	65,870	66,050	66,230	66,410	66,580	66,760	66,930	67,110	67,280	67,460	67,630	67,810	67,980	68,150	68,320	68,490	68,670	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1065.0	1065.1	1065.2	1065.3	1065.4	1065.5	1065.6	1065.7	1065.8	1065.9	1066.0	1066.1	1066.2	1066.3	1066.4	1066.5	1066.6	1066.7	1066.8	1066.9	1067.0	
46	67,720	67,910	68,100	68,290	68,480	68,660	68,850	69,040	69,230	69,420	69,600	69,790	69,970	70,160	70,340	70,530	70,710	70,890	71,080	71,260	71,440	46
47	70,270	70,470	70,670	70,870	71,070	71,270	71,470	71,670	71,870	72,060	72,260	72,460	72,660	72,850	73,050	73,240	73,440	73,630	73,820	74,020	74,210	47
48	72,820	73,040	73,250	73,460	73,670	73,880	74,090	74,300	74,510	74,720	74,930	75,140	75,340	75,550	75,760	75,960	76,170	76,370	76,570	76,780	76,980	48
49	75,300	75,520	75,740	75,970	76,190	76,410	76,630	76,850	77,070	77,290	77,510	77,730	77,950	78,160	78,380	78,600	78,810	79,030	79,240	79,450	79,670	49
50	77,780	78,020	78,250	78,490	78,720	78,950	79,180	79,410	79,640	79,870	80,100	80,330	80,560	80,790	81,010	81,240	81,470	81,690	81,920	82,140	82,360	50
51	80,350	80,590	80,840	81,080	81,320	81,570	81,810	82,050	82,290	82,530	82,770	83,010	83,250	83,490	83,730	83,970	84,200	84,440	84,670	84,910	85,140	51
52	82,910	83,170	83,420	83,680	83,930	84,190	84,440	84,690	84,940	85,200	85,450	85,700	85,950	86,200	86,440	86,690	86,940	87,190	87,430	87,680	87,920	52
53	85,470	85,730	86,000	86,270	86,530	86,800	87,060	87,330	87,590	87,850	88,110	88,380	88,640	88,900	89,150	89,410	89,670	89,930	90,190	90,440	90,700	53
54	88,020	88,300	88,580	88,860	89,140	89,410	89,690	89,960	90,240	90,510	90,780	91,060	91,330	91,600	91,870	92,140	92,400	92,670	92,940	93,210	93,470	54
55	90,970	91,260	91,540	91,820	92,110	92,390	92,670	92,950	93,220	93,500	93,780	94,050	94,330	94,600	94,880	95,150	95,420	95,690	95,960	96,230	96,510	55
56	93,920	94,210	94,500	94,780	95,070	95,360	95,640	95,920	96,210	96,490	96,770	97,050	97,330	97,600	97,880	98,160	98,430	98,710	98,980	99,250	99,530	56
57	96,870	97,160	97,460	97,750	98,040	98,330	98,620	98,900	99,190	99,480	99,760	100,000	100,300	100,600	100,900	101,200	101,400	101,700	102,000	102,300	102,600	57
58	99,690	99,990	100,300	100,600	100,900	101,200	101,500	101,800	102,100	102,300	102,600	102,900	103,200	103,500	103,800	104,100	104,300	104,600	104,900	105,200	105,500	58
59	102,500	102,800	103,100	103,400	103,700	104,000	104,300	104,600	104,900	105,200	105,500	105,800	106,100	106,400	106,700	106,900	107,200	107,500	107,800	108,100	108,400	59
60	105,500	105,800	106,100	106,400	106,700	107,000	107,300	107,600	107,900	108,200	108,500	108,800	109,100	109,400	109,700	110,000	110,200	110,500	110,800	111,100	111,400	60
61	108,400	108,700	109,100	109,400	109,700	110,000	110,300	110,600	110,900	111,200	111,500	111,800	112,100	112,400	112,700	113,000	113,300	113,600	113,800	114,100	114,500	61
62	111,400	111,700	112,000	112,300	112,600	113,000	113,300	113,600	113,900	114,200	114,500	114,800	115,100	115,400	115,700	116,000	116,300	116,600	116,900	117,200	117,500	62
63	114,300	114,600	115,000	115,300	115,600	115,900	116,200	116,600	116,900	117,200	117,500	117,800	118,100	118,400	118,700	119,000	119,300	119,600	119,900	120,200	120,500	63
64	117,000	117,400	117,800	118,200	118,600	118,900	119,300	119,700	120,100	120,500	120,900	121,300	121,700	122,100	122,500	122,800	123,200	123,600	124,000	124,400	124,700	64
65	119,500	120,000	120,500	120,900	121,400	121,900	122,400	122,800	123,300	123,800	124,300	124,700	125,200	125,700	126,100	126,600	127,100	127,500	128,000	128,500	128,900	65
66	122,100	122,700	123,200	123,800	124,300	124,900	125,400	126,000	126,500	127,100	127,600	128,200	128,700	129,300	129,900	130,400	131,000	131,500	132,100	132,600	133,100	66
67	124,600	125,200	125,800	126,500	127,100	127,700	128,400	129,000	129,600	130,300	130,900	131,500	132,100	132,800	133,400	134,000	134,700	135,300	135,900	136,600	137,100	67
68	127,100	127,800	128,500	129,200	129,900	130,600	131,300	132,000	132,700	133,400	134,100	134,900	135,600	136,300	137,000	137,700	138,400	139,100	139,800	140,600	141,100	68
69	129,700	130,500	131,200	132,000	132,800	133,600	134,400	135,200	135,900	136,700	137,500	138,300	139,100	139,900	140,700	141,500	142,300	143,100	143,900	144,700	145,300	69
70	132,300	133,100	134,000	134,800	135,700	136,600	137,400	138,300	139,200	140,000	140,900	141,800	142,700	143,500	144,400	145,300	146,200	147,100	148,000	148,800	149,600	70
71	134,900	135,800	136,700	137,700	138,600	139,500	140,500	141,400	142,400	143,300	144,300	145,200	146,200	147,200	148,100	149,100	150,100	151,000	152,000	153,000	153,800	71
72	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,000	72
73	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,100	73
74	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,100	74
75	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,100	75
76	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,100	76
77	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,200	77
78	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,200	78
79	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,200	79
80	137,400	138,500	139,500	140,500	141,500	142,500	143,500	144,600	145,600	146,600	147,700	148,700	149,700	150,800	151,800	152,900	153,900	155,000	156,000	157,100	158,200	80

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1067.0	1067.1	1067.2	1067.3	1067.4	1067.5	1067.6	1067.7	1067.8	1067.9	1068.0	1068.1	1068.2	1068.3	1068.4	1068.5	1068.6	1068.7	1068.8	1068.9	1069.0	
1	840	840	840	840	840	850	850	850	850	850	860	860	860	860	860	860	870	870	870	870	870	1
2	1,760	1,760	1,760	1,770	1,770	1,780	1,780	1,780	1,790	1,790	1,790	1,800	1,800	1,800	1,810	1,810	1,820	1,820	1,820	1,830	1,830	2
3	2,630	2,640	2,640	2,650	2,650	2,660	2,660	2,670	2,670	2,680	2,690	2,690	2,700	2,700	2,710	2,710	2,720	2,720	2,730	2,730	2,740	3
4	3,510	3,520	3,530	3,530	3,540	3,550	3,550	3,560	3,570	3,580	3,580	3,590	3,600	3,600	3,610	3,620	3,630	3,630	3,640	3,650	3,650	4
5	4,340	4,350	4,360	4,360	4,370	4,380	4,390	4,400	4,410	4,420	4,430	4,440	4,450	4,450	4,460	4,470	4,480	4,490	4,500	4,510	4,520	5
6	5,230	5,240	5,250	5,260	5,270	5,280	5,290	5,300	5,310	5,330	5,340	5,350	5,360	5,370	5,380	5,390	5,400	5,410	5,420	5,430	5,440	6
7	6,090	6,100	6,110	6,120	6,140	6,150	6,160	6,180	6,190	6,200	6,210	6,230	6,240	6,250	6,260	6,280	6,290	6,300	6,310	6,320	6,340	7
8	6,980	7,000	7,010	7,030	7,040	7,060	7,070	7,080	7,100	7,110	7,130	7,140	7,160	7,170	7,180	7,200	7,210	7,230	7,240	7,260	7,270	8
9	7,880	7,900	7,920	7,930	7,950	7,970	7,980	8,000	8,010	8,030	8,050	8,060	8,080	8,090	8,110	8,130	8,140	8,160	8,170	8,190	8,210	9
10	9,370	9,390	9,410	9,430	9,450	9,470	9,490	9,510	9,530	9,550	9,570	9,590	9,610	9,630	9,650	9,670	9,690	9,710	9,720	9,740	9,760	10
11	10,860	10,890	10,910	10,930	10,950	10,980	11,000	11,020	11,050	11,070	11,090	11,110	11,140	11,160	11,180	11,200	11,230	11,250	11,270	11,290	11,320	11
12	12,360	12,380	12,410	12,440	12,460	12,490	12,520	12,540	12,570	12,590	12,620	12,640	12,670	12,700	12,720	12,750	12,770	12,800	12,820	12,850	12,880	12
13	13,840	13,870	13,900	13,930	13,960	13,990	14,020	14,050	14,080	14,110	14,130	14,160	14,190	14,220	14,250	14,280	14,310	14,340	14,370	14,390	14,420	13
14	15,330	15,360	15,390	15,430	15,460	15,490	15,530	15,560	15,590	15,620	15,660	15,690	15,720	15,750	15,780	15,820	15,850	15,880	15,910	15,940	15,980	14
15	16,820	16,860	16,890	16,930	16,970	17,000	17,040	17,070	17,110	17,150	17,180	17,220	17,250	17,290	17,320	17,360	17,390	17,430	17,460	17,500	17,530	15
16	18,320	18,360	18,400	18,440	18,480	18,520	18,560	18,600	18,630	18,670	18,710	18,750	18,790	18,830	18,870	18,900	18,940	18,980	19,020	19,060	19,100	16
17	19,810	19,850	19,890	19,940	19,980	20,020	20,070	20,110	20,150	20,190	20,230	20,280	20,320	20,360	20,400	20,440	20,480	20,530	20,570	20,610	20,650	17
18	21,290	21,330	21,380	21,430	21,470	21,520	21,560	21,610	21,650	21,700	21,750	21,790	21,840	21,880	21,930	21,970	22,020	22,060	22,100	22,150	22,190	18
19	22,740	22,790	22,840	22,890	22,940	22,990	23,040	23,090	23,140	23,180	23,230	23,280	23,330	23,380	23,430	23,470	23,520	23,570	23,620	23,670	23,710	19
20	24,210	24,260	24,310	24,360	24,420	24,470	24,520	24,570	24,630	24,680	24,730	24,780	24,840	24,890	24,940	24,990	25,040	25,090	25,140	25,200	25,250	20
21	25,660	25,710	25,770	25,820	25,880	25,940	25,990	26,050	26,100	26,160	26,220	26,270	26,330	26,380	26,440	26,490	26,550	26,600	26,660	26,710	26,760	21
22	27,100	27,160	27,220	27,280	27,340	27,400	27,460	27,520	27,580	27,640	27,700	27,750	27,810	27,870	27,930	27,990	28,050	28,100	28,160	28,220	28,280	22
23	28,530	28,600	28,660	28,720	28,790	28,850	28,910	28,970	29,040	29,100	29,160	29,220	29,280	29,350	29,410	29,470	29,530	29,590	29,650	29,710	29,780	23
24	29,980	30,050	30,120	30,180	30,250	30,320	30,380	30,450	30,510	30,580	30,650	30,710	30,780	30,840	30,910	30,970	31,040	31,100	31,170	31,230	31,290	24
25	31,430	31,500	31,570	31,640	31,710	31,780	31,850	31,920	31,990	32,060	32,130	32,200	32,270	32,340	32,400	32,470	32,540	32,610	32,680	32,740	32,810	25
26	32,880	32,960	33,030	33,100	33,180	33,250	33,320	33,390	33,470	33,540	33,610	33,680	33,760	33,830	33,900	33,970	34,040	34,110	34,190	34,260	34,330	26
27	34,340	34,420	34,490	34,570	34,650	34,720	34,800	34,880	34,950	35,030	35,100	35,180	35,260	35,330	35,410	35,480	35,560	35,630	35,700	35,780	35,850	27
28	35,920	36,000	36,090	36,170	36,250	36,330	36,410	36,490	36,570	36,650	36,730	36,810	36,890	36,970	37,050	37,120	37,200	37,280	37,360	37,440	37,520	28
29	37,520	37,600	37,690	37,770	37,860	37,940	38,030	38,110	38,200	38,280	38,360	38,450	38,530	38,610	38,700	38,780	38,860	38,950	39,030	39,110	39,190	29
30	39,110	39,200	39,290	39,380	39,460	39,550	39,640	39,730	39,820	39,910	39,990	40,080	40,170	40,260	40,340	40,430	40,520	40,600	40,690	40,770	40,860	30
31	40,670	40,760	40,860	40,950	41,040	41,140	41,230	41,320	41,410	41,510	41,600	41,690	41,780	41,870	41,960	42,050	42,140	42,230	42,320	42,410	42,500	31
32	42,240	42,340	42,430	42,530	42,630	42,720	42,820	42,920	43,010	43,110	43,200	43,300	43,390	43,490	43,580	43,680	43,770	43,870	43,960	44,050	44,150	32
33	43,830	43,930	44,030	44,130	44,230	44,330	44,430	44,530	44,630	44,730	44,830	44,930	45,030	45,130	45,230	45,330	45,420	45,520	45,620	45,720	45,810	33
34	45,410	45,520	45,620	45,730	45,830	45,940	46,040	46,150	46,250	46,350	46,460	46,560	46,660	46,770	46,870	46,970	47,070	47,170	47,280	47,380	47,480	34
35	47,000	47,110	47,220	47,330	47,440	47,550	47,660	47,770	47,870	47,980	48,090	48,200	48,300	48,410	48,520	48,620	48,730	48,840	48,940	49,050	49,150	35
36	48,590	48,710	48,820	48,940	49,050	49,160	49,270	49,390	49,500	49,610	49,720	49,830	49,940	50,050	50,160	50,270	50,380	50,490	50,600	50,710	50,820	36
37	50,840	50,960	51,080	51,200	51,320	51,430	51,550	51,670	51,790	51,910	52,020	52,140	52,260	52,380	52,490	52,610	52,720	52,840	52,960	53,070	53,190	37
38	53,070	53,190	53,320	53,450	53,570	53,700	53,820	53,950	54,070	54,190	54,320	54,440	54,560	54,690	54,810	54,930	55,050	55,180	55,300	55,420	55,540	38
39	55,310	55,440	55,570	55,710	55,840	55,970	56,100	56,230	56,360	56,490	56,620	56,750	56,880	57,010	57,140	57,270	57,400	57,530	57,650	57,780	57,910	39
40	57,500	57,640	57,780	57,910	58,050	58,190	58,330	58,460	58,600	58,740	58,870	59,010	59,140	59,280	59,410	59,550	59,680	59,820	59,950	60,080	60,220	40
41	59,700	59,850	59,990	60,140	60,280	60,420	60,570	60,710	60,850	61,000	61,140	61,280	61,420	61,560	61,700	61,840	61,990	62,130	62,260	62,400	62,540	41
42	61,940	62,090	62,240	62,390	62,540	62,690	62,840	62,990	63,140	63,290	63,440	63,590	63,730	63,880	64,030	64,180	64,320	64,470	64,610	64,760	64,900	42
43	64,180	64,340	64,500	64,660	64,810	64,970	65,130	65,280	65,440	65,590	65,750	65,900	66,050	66,210	66,360	66,510	66,670	66,820	66,970	67,120	67,270	43
44	66,420	66,590	66,750	66,920	67,080	67,240	67,400	67,570	67,730	67,890	68,050	68,210	68,370	68,530	68,690	68,850	69,010	69,160	69,320	69,480	69,640	44
45	68,670	68,840	69,010	69,180	69,350	69,520	69,680	69,850	70,020	70,190	70,350	70,520	70,690	70,850	71,020	71,180	71,350	71,510	71,680	71,840	72,000	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1067.0	1067.1	1067.2	1067.3	1067.4	1067.5	1067.6	1067.7	1067.8	1067.9	1068.0	1068.1	1068.2	1068.3	1068.4	1068.5	1068.6	1068.7	1068.8	1068.9	1069.0	
46	71,440	71,620	71,800	71,980	72,160	72,330	72,510	72,690	72,870	73,040	73,220	73,390	73,570	73,740	73,920	74,090	74,270	74,440	74,610	74,780	74,960	46
47	74,210	74,400	74,590	74,770	74,960	75,150	75,340	75,520	75,710	75,890	76,080	76,260	76,450	76,630	76,810	77,000	77,180	77,360	77,540	77,720	77,900	47
48	76,980	77,180	77,380	77,580	77,770	77,970	78,160	78,360	78,550	78,750	78,940	79,140	79,330	79,520	79,710	79,910	80,100	80,290	80,480	80,670	80,860	48
49	79,670	79,880	80,080	80,290	80,490	80,700	80,900	81,110	81,310	81,520	81,720	81,920	82,120	82,320	82,520	82,720	82,920	83,120	83,320	83,520	83,720	49
50	82,360	82,580	82,800	83,010	83,230	83,440	83,660	83,870	84,080	84,290	84,500	84,720	84,930	85,140	85,350	85,550	85,760	85,970	86,180	86,380	86,590	50
51	85,140	85,370	85,600	85,820	86,040	86,270	86,490	86,710	86,930	87,150	87,370	87,590	87,810	88,030	88,250	88,470	88,690	88,900	89,120	89,330	89,550	51
52	87,920	88,160	88,390	88,630	88,860	89,090	89,330	89,560	89,790	90,020	90,250	90,480	90,700	90,930	91,160	91,390	91,610	91,840	92,060	92,290	92,510	52
53	90,700	90,940	91,190	91,430	91,670	91,910	92,150	92,390	92,630	92,870	93,110	93,350	93,590	93,820	94,060	94,300	94,530	94,760	95,000	95,230	95,460	53
54	93,470	93,730	93,980	94,230	94,490	94,740	94,990	95,240	95,490	95,730	95,980	96,230	96,470	96,720	96,960	97,210	97,450	97,700	97,940	98,180	98,420	54
55	96,510	96,780	97,050	97,320	97,580	97,850	98,110	98,370	98,640	98,900	99,160	99,420	99,680	99,940	100,200	100,500	100,700	101,000	101,200	101,500	101,700	55
56	99,530	99,820	100,100	100,400	100,700	100,900	101,200	101,500	101,800	102,000	102,300	102,600	102,900	103,100	103,400	103,700	104,000	104,200	104,500	104,800	105,000	56
57	102,600	102,900	103,200	103,500	103,700	104,000	104,300	104,600	104,900	105,200	105,500	105,800	106,100	106,400	106,600	106,900	107,200	107,500	107,800	108,100	108,400	57
58	105,500	105,800	106,100	106,400	106,700	107,000	107,300	107,600	107,900	108,200	108,500	108,800	109,100	109,400	109,700	110,000	110,300	110,600	110,900	111,200	111,500	58
59	108,400	108,700	109,000	109,300	109,700	110,000	110,300	110,600	110,900	111,300	111,600	111,900	112,200	112,500	112,800	113,200	113,500	113,800	114,100	114,400	114,700	59
60	111,400	111,800	112,100	112,400	112,800	113,100	113,400	113,800	114,100	114,400	114,800	115,100	115,400	115,700	116,100	116,400	116,700	117,100	117,400	117,700	118,000	60
61	114,500	114,800	115,200	115,500	115,900	116,200	116,600	116,900	117,200	117,600	117,900	118,300	118,600	119,000	119,300	119,700	120,000	120,300	120,700	121,000	121,300	61
62	117,500	117,800	118,200	118,600	118,900	119,300	119,700	120,000	120,400	120,800	121,100	121,500	121,800	122,200	122,500	122,900	123,200	123,600	124,000	124,300	124,700	62
63	120,500	120,900	121,300	121,600	122,000	122,400	122,800	123,200	123,500	123,900	124,300	124,700	125,000	125,400	125,800	126,100	126,500	126,900	127,200	127,600	128,000	63
64	124,700	125,000	125,300	125,600	126,000	126,300	126,600	127,000	127,300	127,600	128,000	128,300	128,700	129,000	129,300	129,700	130,000	130,300	130,700	131,000	131,400	64
65	128,900	129,200	129,500	129,700	130,000	130,300	130,500	130,800	131,100	131,400	131,700	132,000	132,300	132,600	132,900	133,300	133,600	133,900	134,200	134,500	134,800	65
66	133,100	133,400	133,600	133,800	134,000	134,200	134,400	134,700	134,900	135,200	135,500	135,700	136,000	136,300	136,600	136,800	137,100	137,400	137,600	137,900	138,200	66
67	137,100	137,300	137,500	137,600	137,800	137,900	138,100	138,400	138,600	138,800	139,000	139,200	139,500	139,700	140,000	140,200	140,500	140,700	140,900	141,200	141,400	67
68	141,100	141,300	141,400	141,500	141,500	141,600	141,800	142,000	142,100	142,300	142,500	142,700	142,900	143,100	143,400	143,600	143,800	144,000	144,200	144,400	144,600	68
69	145,300	145,500	145,500	145,600	145,600	145,600	145,700	145,900	146,000	146,100	146,300	146,400	146,600	146,800	147,000	147,200	147,400	147,500	147,700	147,900	148,100	69
70	149,600	149,700	149,700	149,600	149,600	149,600	149,600	149,700	149,800	149,900	150,000	150,100	150,300	150,500	150,600	150,800	150,900	151,000	151,200	151,300	151,500	70
71	153,800	153,900	153,800	153,700	153,600	153,500	153,500	153,600	153,600	153,700	153,700	153,900	154,000	154,100	154,200	154,300	154,500	154,600	154,700	154,800	154,900	71
72	158,000	158,000	157,900	157,700	157,600	157,400	157,400	157,400	157,400	157,400	157,500	157,500	157,600	157,700	157,800	157,900	158,000	158,100	158,100	158,200	158,300	72
73	158,100	158,300	158,300	158,200	158,200	158,200	158,300	158,500	158,600	158,700	158,800	159,000	159,200	159,400	159,600	159,800	160,000	160,200	160,400	160,600	160,800	73
74	158,100	158,300	158,500	158,600	158,700	158,800	159,100	159,300	159,600	159,800	160,100	160,400	160,700	161,000	161,300	161,700	162,000	162,300	162,600	162,900	163,200	74
75	158,100	158,500	158,700	159,000	159,200	159,500	159,900	160,200	160,600	161,000	161,400	161,800	162,200	162,700	163,100	163,500	164,000	164,400	164,800	165,200	165,700	75
76	158,100	158,600	159,000	159,400	159,800	160,200	160,700	161,100	161,600	162,100	162,600	163,100	163,700	164,200	164,800	165,300	165,900	166,400	166,900	167,500	168,000	76
77	158,200	158,800	159,300	159,900	160,400	160,900	161,500	162,100	162,700	163,300	163,900	164,500	165,200	165,900	166,500	167,200	167,800	168,500	169,100	169,800	170,400	77
78	158,200	158,900	159,500	160,200	160,900	161,500	162,200	163,000	163,700	164,400	165,100	165,900	166,700	167,400	168,200	169,000	169,700	170,500	171,300	172,000	172,800	78
79	158,200	159,000	159,800	160,600	161,400	162,200	163,100	163,900	164,700	165,600	166,400	167,300	168,200	169,100	170,000	170,800	171,700	172,600	173,500	174,400	175,300	79
80	158,200	159,100	160,100	161,000	161,900	162,900	163,800	164,800	165,800	166,700	167,700	168,700	169,700	170,700	171,700	172,700	173,700	174,700	175,700	176,700	177,700	80
81	158,200	159,200	160,300	161,400	162,500	163,600	164,600	165,700	166,800	167,900	169,000	170,100	171,200	172,300	173,400	174,500	175,700	176,800	177,900	179,000	180,200	81

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1069.0	1069.1	1069.2	1069.3	1069.4	1069.5	1069.6	1069.7	1069.8	1069.9	1070.0	1070.1	1070.2	1070.3	1070.4	1070.5	1070.6	1070.7	1070.8	1070.9	1071.0	
1	870	870	880	880	880	880	880	880	890	890	890	890	890	890	900	900	900	900	900	900	910	1
2	1,830	1,830	1,840	1,840	1,840	1,850	1,850	1,850	1,860	1,860	1,860	1,870	1,870	1,880	1,880	1,880	1,890	1,890	1,890	1,900	1,900	2
3	2,740	2,740	2,750	2,750	2,760	2,760	2,770	2,780	2,780	2,790	2,790	2,800	2,800	2,810	2,810	2,820	2,820	2,830	2,830	2,840	2,840	3
4	3,650	3,660	3,670	3,680	3,680	3,690	3,700	3,700	3,710	3,720	3,720	3,730	3,740	3,750	3,750	3,760	3,770	3,770	3,780	3,790	3,790	4
5	4,520	4,520	4,530	4,540	4,550	4,560	4,570	4,580	4,580	4,590	4,600	4,610	4,620	4,630	4,640	4,640	4,650	4,660	4,670	4,680	4,690	5
6	5,440	5,450	5,460	5,470	5,480	5,490	5,510	5,520	5,530	5,540	5,550	5,560	5,570	5,580	5,590	5,600	5,610	5,620	5,630	5,640	5,650	6
7	6,340	6,350	6,360	6,370	6,390	6,400	6,410	6,420	6,430	6,450	6,460	6,470	6,480	6,490	6,510	6,520	6,530	6,540	6,550	6,560	6,580	7
8	7,270	7,280	7,300	7,310	7,330	7,340	7,350	7,370	7,380	7,390	7,410	7,420	7,440	7,450	7,460	7,480	7,490	7,500	7,520	7,530	7,550	8
9	8,210	8,220	8,240	8,250	8,270	8,290	8,300	8,320	8,330	8,350	8,360	8,380	8,390	8,410	8,430	8,440	8,460	8,470	8,490	8,500	8,520	9
10	9,760	9,780	9,800	9,820	9,840	9,860	9,880	9,890	9,910	9,930	9,950	9,970	9,990	10,010	10,020	10,040	10,060	10,080	10,100	10,120	10,140	10
11	11,320	11,340	11,360	11,380	11,400	11,430	11,450	11,470	11,490	11,510	11,540	11,560	11,580	11,600	11,620	11,640	11,670	11,690	11,710	11,730	11,750	11
12	12,880	12,900	12,930	12,950	12,980	13,000	13,030	13,050	13,080	13,100	13,130	13,150	13,180	13,200	13,230	13,250	13,270	13,300	13,320	13,350	13,370	12
13	14,420	14,450	14,480	14,510	14,540	14,560	14,590	14,620	14,650	14,680	14,700	14,730	14,760	14,790	14,820	14,840	14,870	14,900	14,930	14,950	14,980	13
14	15,980	16,010	16,040	16,070	16,100	16,130	16,160	16,200	16,230	16,260	16,290	16,320	16,350	16,380	16,410	16,440	16,470	16,500	16,540	16,570	16,600	14
15	17,530	17,570	17,600	17,640	17,670	17,710	17,740	17,780	17,810	17,840	17,880	17,910	17,950	17,980	18,010	18,050	18,080	18,120	18,150	18,180	18,220	15
16	19,100	19,130	19,170	19,210	19,250	19,280	19,320	19,360	19,400	19,430	19,470	19,510	19,550	19,580	19,620	19,660	19,690	19,730	19,770	19,800	19,840	16
17	20,650	20,690	20,730	20,770	20,810	20,850	20,900	20,940	20,980	21,020	21,060	21,100	21,140	21,180	21,220	21,260	21,300	21,340	21,380	21,420	21,460	17
18	22,190	22,240	22,280	22,330	22,370	22,410	22,460	22,500	22,540	22,590	22,630	22,680	22,720	22,760	22,810	22,850	22,890	22,930	22,980	23,020	23,060	18
19	23,710	23,760	23,810	23,860	23,900	23,950	24,000	24,050	24,090	24,140	24,190	24,230	24,280	24,330	24,370	24,420	24,460	24,510	24,560	24,600	24,650	19
20	25,250	25,300	25,350	25,400	25,450	25,500	25,550	25,600	25,650	25,700	25,750	25,800	25,850	25,900	25,950	26,000	26,050	26,100	26,150	26,200	26,250	20
21	26,760	26,820	26,870	26,930	26,980	27,030	27,090	27,140	27,190	27,250	27,300	27,350	27,410	27,460	27,510	27,570	27,620	27,670	27,720	27,780	27,830	21
22	28,280	28,340	28,390	28,450	28,510	28,560	28,620	28,680	28,730	28,790	28,850	28,900	28,960	29,020	29,070	29,130	29,180	29,240	29,300	29,350	29,410	22
23	29,780	29,840	29,900	29,960	30,020	30,080	30,140	30,200	30,260	30,320	30,380	30,440	30,500	30,560	30,620	30,680	30,730	30,790	30,850	30,910	30,970	23
24	31,290	31,360	31,420	31,490	31,550	31,610	31,680	31,740	31,800	31,870	31,930	31,990	32,050	32,120	32,180	32,240	32,300	32,370	32,430	32,490	32,550	24
25	32,810	32,880	32,950	33,010	33,080	33,150	33,210	33,280	33,350	33,410	33,480	33,550	33,610	33,680	33,740	33,810	33,870	33,940	34,000	34,070	34,130	25
26	34,330	34,400	34,470	34,540	34,610	34,680	34,750	34,820	34,890	34,960	35,030	35,100	35,170	35,240	35,300	35,370	35,440	35,510	35,580	35,650	35,720	26
27	35,850	35,930	36,000	36,080	36,150	36,220	36,300	36,370	36,440	36,510	36,590	36,660	36,730	36,800	36,880	36,950	37,020	37,090	37,160	37,230	37,310	27
28	37,520	37,590	37,670	37,750	37,830	37,900	37,980	38,060	38,140	38,210	38,290	38,360	38,440	38,520	38,590	38,670	38,740	38,820	38,890	38,970	39,050	28
29	39,190	39,270	39,360	39,440	39,520	39,600	39,680	39,760	39,840	39,920	40,000	40,080	40,160	40,240	40,320	40,400	40,480	40,560	40,640	40,720	40,800	29
30	40,860	40,950	41,030	41,120	41,200	41,290	41,370	41,460	41,540	41,620	41,710	41,790	41,880	41,960	42,040	42,130	42,210	42,290	42,380	42,460	42,540	30
31	42,500	42,590	42,680	42,770	42,860	42,950	43,040	43,120	43,210	43,300	43,390	43,480	43,560	43,650	43,740	43,820	43,910	44,000	44,080	44,170	44,260	31
32	44,150	44,240	44,330	44,430	44,520	44,610	44,700	44,790	44,890	44,980	45,070	45,160	45,250	45,340	45,430	45,530	45,620	45,710	45,800	45,890	45,980	32
33	45,810	45,910	46,010	46,110	46,200	46,300	46,390	46,490	46,590	46,680	46,780	46,870	46,970	47,060	47,160	47,250	47,340	47,440	47,530	47,630	47,720	33
34	47,480	47,580	47,680	47,780	47,880	47,980	48,080	48,180	48,280	48,380	48,480	48,580	48,680	48,780	48,870	48,970	49,070	49,170	49,260	49,360	49,460	34
35	49,150	49,260	49,360	49,460	49,570	49,670	49,780	49,880	49,980	50,090	50,190	50,290	50,390	50,500	50,600	50,700	50,800	50,900	51,010	51,110	51,210	35
36	50,820	50,930	51,040	51,150	51,250	51,360	51,470	51,580	51,680	51,790	51,900	52,000	52,110	52,220	52,320	52,430	52,530	52,640	52,740	52,850	52,950	36
37	53,190	53,300	53,420	53,530	53,640	53,760	53,870	53,980	54,100	54,210	54,320	54,440	54,550	54,660	54,770	54,880	54,990	55,100	55,220	55,330	55,440	37
38	55,540	55,660	55,780	55,900	56,020	56,140	56,260	56,380	56,500	56,620	56,740	56,860	56,970	57,090	57,210	57,330	57,440	57,560	57,680	57,790	57,910	38
39	57,910	58,030	58,160	58,290	58,410	58,540	58,660	58,790	58,910	59,040	59,160	59,290	59,410	59,540	59,660	59,780	59,900	60,030	60,150	60,270	60,390	39
40	60,220	60,350	60,480	60,610	60,750	60,880	61,010	61,140	61,270	61,400	61,530	61,660	61,790	61,920	62,050	62,180	62,310	62,440	62,560	62,690	62,820	40
41	62,540	62,680	62,820	62,960	63,100	63,230	63,370	63,510	63,640	63,780	63,920	64,050	64,190	64,320	64,460	64,590	64,730	64,860	64,990	65,130	65,260	41
42	64,900	65,050	65,190	65,340	65,480	65,620	65,770	65,910	66,050	66,200	66,340	66,480	66,620	66,760	66,900	67,040	67,180	67,320	67,460	67,600	67,740	42
43	67,270	67,420	67,570	67,720	67,870	68,020	68,170	68,320	68,470	68,620	68,770	68,910	69,060	69,210	69,350	69,500	69,650	69,790	69,940	70,080	70,230	43
44	69,640	69,790	69,950	70,110	70,260	70,420	70,570	70,730	70,880	71,040	71,190	71,340	71,500	71,650	71,800	71,950	72,100	72,260	72,410	72,560	72,710	44
45	72,000	72,170	72,330	72,490	72,650	72,810	72,970	73,140	73,300	73,460	73,620	73,770	73,930	74,090	74,250	74,410	74,570	74,720	74,880	75,040	75,190	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1069.0	1069.1	1069.2	1069.3	1069.4	1069.5	1069.6	1069.7	1069.8	1069.9	1070.0	1070.1	1070.2	1070.3	1070.4	1070.5	1070.6	1070.7	1070.8	1070.9	1071.0	
46	74,960	75,130	75,300	75,470	75,640	75,810	75,980	76,150	76,320	76,490	76,650	76,820	76,990	77,160	77,320	77,490	77,650	77,820	77,990	78,150	78,310	46
47	77,900	78,080	78,260	78,440	78,620	78,800	78,980	79,160	79,330	79,510	79,690	79,860	80,040	80,220	80,390	80,570	80,740	80,910	81,090	81,260	81,430	47
48	80,860	81,050	81,230	81,420	81,610	81,800	81,980	82,170	82,360	82,540	82,730	82,910	83,100	83,280	83,460	83,650	83,830	84,010	84,190	84,370	84,560	48
49	83,720	83,920	84,110	84,310	84,510	84,700	84,900	85,090	85,280	85,480	85,670	85,860	86,060	86,250	86,440	86,630	86,820	87,010	87,200	87,390	87,580	49
50	86,590	86,800	87,000	87,210	87,410	87,620	87,820	88,020	88,220	88,430	88,630	88,830	89,030	89,230	89,430	89,630	89,830	90,030	90,220	90,420	90,620	50
51	89,550	89,760	89,980	90,190	90,400	90,620	90,830	91,040	91,250	91,460	91,670	91,880	92,090	92,300	92,510	92,720	92,920	93,130	93,340	93,540	93,750	51
52	92,510	92,730	92,960	93,180	93,400	93,620	93,840	94,060	94,280	94,500	94,720	94,940	95,150	95,370	95,590	95,800	96,020	96,240	96,450	96,660	96,880	52
53	95,460	95,700	95,930	96,160	96,390	96,620	96,850	97,080	97,300	97,530	97,760	97,990	98,210	98,440	98,660	98,890	99,110	99,330	99,560	99,780	100,000	53
54	98,420	98,660	98,900	99,140	99,380	99,620	99,860	100,100	100,300	100,600	100,800	101,000	101,300	101,500	101,700	102,000	102,200	102,400	102,700	102,900	103,100	54
55	101,700	102,000	102,200	102,500	102,800	103,000	103,300	103,500	103,800	104,000	104,300	104,500	104,800	105,000	105,200	105,500	105,700	106,000	106,200	106,500	106,700	55
56	105,000	105,300	105,600	105,800	106,100	106,400	106,600	106,900	107,200	107,400	107,700	108,000	108,200	108,500	108,700	109,000	109,300	109,500	109,800	110,000	110,300	56
57	108,400	108,600	108,900	109,200	109,500	109,800	110,000	110,300	110,600	110,900	111,100	111,400	111,700	112,000	112,200	112,500	112,800	113,100	113,300	113,600	113,900	57
58	111,500	111,800	112,100	112,400	112,700	113,000	113,300	113,600	113,900	114,200	114,400	114,700	115,000	115,300	115,600	115,900	116,200	116,400	116,700	117,000	117,300	58
59	114,700	115,000	115,300	115,600	115,900	116,200	116,500	116,900	117,200	117,500	117,800	118,100	118,400	118,700	119,000	119,300	119,600	119,900	120,100	120,400	120,700	59
60	118,000	118,300	118,700	119,000	119,300	119,600	119,900	120,300	120,600	120,900	121,200	121,500	121,800	122,200	122,500	122,800	123,100	123,400	123,700	124,000	124,300	60
61	121,300	121,700	122,000	122,300	122,700	123,000	123,300	123,700	124,000	124,300	124,700	125,000	125,300	125,600	126,000	126,300	126,600	126,900	127,300	127,600	127,900	61
62	124,700	125,000	125,400	125,700	126,000	126,400	126,700	127,100	127,400	127,800	128,100	128,500	128,800	129,100	129,500	129,800	130,100	130,500	130,800	131,200	131,500	62
63	128,000	128,300	128,700	129,000	129,400	129,800	130,100	130,500	130,800	131,200	131,600	131,900	132,300	132,600	133,000	133,300	133,700	134,000	134,400	134,700	135,100	63
64	131,400	131,700	132,100	132,500	132,800	133,200	133,500	133,900	134,300	134,600	135,000	135,300	135,700	136,000	136,400	136,700	137,100	137,400	137,800	138,100	138,500	64
65	134,800	135,100	135,500	135,900	136,200	136,600	137,000	137,300	137,700	138,000	138,400	138,700	139,100	139,500	139,800	140,200	140,500	140,900	141,200	141,600	141,900	65
66	138,200	138,500	138,900	139,300	139,600	140,000	140,400	140,700	141,100	141,500	141,800	142,200	142,500	142,900	143,200	143,600	144,000	144,300	144,700	145,000	145,300	66
67	141,400	141,800	142,100	142,500	142,900	143,200	143,600	144,000	144,300	144,700	145,100	145,400	145,800	146,100	146,500	146,800	147,200	147,500	147,900	148,200	148,600	67
68	144,600	145,000	145,400	145,700	146,100	146,500	146,800	147,200	147,600	147,900	148,300	148,700	149,000	149,400	149,700	150,100	150,400	150,800	151,100	151,500	151,800	68
69	148,100	148,400	148,800	149,200	149,500	149,900	150,300	150,600	151,000	151,400	151,700	152,100	152,500	152,800	153,200	153,500	153,900	154,200	154,600	154,900	155,300	69
70	151,500	151,800	152,200	152,600	153,000	153,300	153,700	154,100	154,400	154,800	155,200	155,500	155,900	156,300	156,600	157,000	157,300	157,700	158,000	158,400	158,700	70
71	154,900	155,300	155,600	156,000	156,400	156,800	157,100	157,500	157,900	158,200	158,600	159,000	159,300	159,700	160,000	160,400	160,800	161,100	161,500	161,800	162,100	71
72	158,300	158,700	159,000	159,400	159,800	160,200	160,500	160,900	161,300	161,700	162,000	162,400	162,700	163,100	163,500	163,800	164,200	164,500	164,900	165,200	165,600	72
73	160,800	161,200	161,700	162,200	162,600	163,100	163,600	164,000	164,500	164,900	165,400	165,800	166,300	166,800	167,200	167,600	168,100	168,500	169,000	169,400	169,900	73
74	163,200	163,800	164,300	164,900	165,400	166,000	166,500	167,000	167,600	168,100	168,700	169,200	169,800	170,300	170,900	171,400	171,900	172,500	173,000	173,500	174,100	74
75	165,700	166,300	166,900	167,600	168,200	168,800	169,500	170,100	170,700	171,400	172,000	172,600	173,300	173,900	174,500	175,200	175,800	176,400	177,100	177,700	178,300	75
76	168,000	168,700	169,400	170,100	170,900	171,600	172,300	173,000	173,700	174,500	175,200	175,900	176,600	177,300	178,000	178,800	179,500	180,200	180,900	181,600	182,400	76
77	170,400	171,200	172,000	172,800	173,600	174,400	175,200	176,000	176,800	177,600	178,400	179,200	180,000	180,800	181,600	182,400	183,200	184,000	184,800	185,600	186,400	77
78	172,800	173,700	174,600	175,400	176,300	177,200	178,100	179,000	179,900	180,800	181,700	182,500	183,400	184,300	185,200	186,100	187,000	187,900	188,800	189,700	190,700	78
79	175,300	176,200	177,200	178,200	179,100	180,100	181,100	182,000	183,000	184,000	185,000	186,000	186,900	187,900	188,900	189,900	190,900	191,900	192,900	193,900	194,900	79
80	177,700	178,700	179,800	180,800	181,900	183,000	184,000	185,100	186,200	187,200	188,300	189,400	190,400	191,500	192,600	193,700	194,800	195,900	196,900	198,000	199,100	80
81	180,200	181,300	182,400	183,600	184,700	185,800	187,000	188,100	189,300	190,500	191,600	192,800	193,900	195,100	196,300	197,500	198,600	199,800	201,000	202,200	203,400	81

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1071.0	1071.1	1071.2	1071.3	1071.4	1071.5	1071.6	1071.7	1071.8	1071.9	1072.0	1072.1	1072.2	1072.3	1072.4	1072.5	1072.6	1072.7	1072.8	1072.9	1073.0	
1	910	910	910	910	910	910	910	920	920	920	920	920	920	930	930	930	930	930	930	940	940	1
2	1,900	1,900	1,910	1,910	1,910	1,920	1,920	1,920	1,930	1,930	1,930	1,940	1,940	1,940	1,950	1,950	1,950	1,960	1,960	1,960	1,970	2
3	2,840	2,850	2,850	2,860	2,860	2,870	2,870	2,880	2,880	2,890	2,890	2,900	2,900	2,910	2,910	2,920	2,920	2,930	2,930	2,940	2,940	3
4	3,790	3,800	3,810	3,810	3,820	3,830	3,830	3,840	3,850	3,850	3,860	3,870	3,870	3,880	3,890	3,890	3,900	3,910	3,910	3,920	3,930	4
5	4,690	4,700	4,700	4,710	4,720	4,730	4,740	4,750	4,750	4,760	4,770	4,780	4,790	4,790	4,800	4,810	4,820	4,830	4,840	4,840	4,850	5
6	5,650	5,660	5,670	5,680	5,690	5,700	5,710	5,720	5,730	5,740	5,750	5,760	5,770	5,780	5,790	5,800	5,810	5,820	5,830	5,840	5,850	6
7	6,580	6,590	6,600	6,610	6,620	6,640	6,650	6,660	6,670	6,680	6,690	6,710	6,720	6,730	6,740	6,750	6,760	6,770	6,790	6,800	6,810	7
8	7,550	7,560	7,570	7,590	7,600	7,610	7,630	7,640	7,650	7,670	7,680	7,690	7,710	7,720	7,730	7,750	7,760	7,770	7,780	7,800	7,810	8
9	8,520	8,530	8,550	8,560	8,580	8,590	8,610	8,620	8,640	8,650	8,670	8,680	8,700	8,710	8,730	8,740	8,760	8,770	8,790	8,800	8,820	9
10	10,140	10,150	10,170	10,190	10,210	10,230	10,240	10,260	10,280	10,300	10,320	10,330	10,350	10,370	10,390	10,410	10,420	10,440	10,460	10,480	10,500	10
11	11,750	11,770	11,790	11,810	11,840	11,860	11,880	11,900	11,920	11,940	11,960	11,980	12,000	12,030	12,050	12,070	12,090	12,110	12,130	12,150	12,170	11
12	13,370	13,400	13,420	13,450	13,470	13,490	13,520	13,540	13,570	13,590	13,610	13,640	13,660	13,690	13,710	13,730	13,760	13,780	13,810	13,830	13,850	12
13	14,980	15,010	15,040	15,060	15,090	15,120	15,150	15,170	15,200	15,230	15,250	15,280	15,310	15,330	15,360	15,390	15,410	15,440	15,470	15,490	15,520	13
14	16,600	16,630	16,660	16,690	16,720	16,750	16,780	16,810	16,840	16,870	16,900	16,930	16,960	16,990	17,020	17,050	17,080	17,110	17,140	17,170	17,190	14
15	18,220	18,250	18,280	18,320	18,350	18,380	18,420	18,450	18,480	18,520	18,550	18,580	18,610	18,650	18,680	18,710	18,750	18,780	18,810	18,840	18,870	15
16	19,840	19,880	19,910	19,950	19,990	20,020	20,060	20,100	20,130	20,170	20,200	20,240	20,280	20,310	20,350	20,380	20,420	20,450	20,490	20,520	20,560	16
17	21,460	21,500	21,540	21,580	21,620	21,650	21,690	21,730	21,770	21,810	21,850	21,890	21,930	21,970	22,010	22,040	22,080	22,120	22,160	22,200	22,240	17
18	23,060	23,110	23,150	23,190	23,230	23,270	23,320	23,360	23,400	23,440	23,480	23,530	23,570	23,610	23,650	23,690	23,730	23,780	23,820	23,860	23,900	18
19	24,650	24,690	24,740	24,790	24,830	24,880	24,920	24,970	25,010	25,060	25,100	25,150	25,190	25,240	25,280	25,330	25,370	25,420	25,460	25,500	25,550	19
20	26,250	26,290	26,340	26,390	26,440	26,490	26,540	26,590	26,640	26,680	26,730	26,780	26,830	26,880	26,920	26,970	27,020	27,070	27,110	27,160	27,210	20
21	27,830	27,880	27,930	27,980	28,040	28,090	28,140	28,190	28,240	28,290	28,350	28,400	28,450	28,500	28,550	28,600	28,650	28,700	28,750	28,800	28,850	21
22	29,410	29,460	29,520	29,570	29,630	29,680	29,740	29,790	29,850	29,900	29,960	30,010	30,060	30,120	30,170	30,230	30,280	30,330	30,390	30,440	30,490	22
23	30,970	31,030	31,090	31,140	31,200	31,260	31,320	31,380	31,430	31,490	31,550	31,610	31,660	31,720	31,780	31,830	31,890	31,950	32,000	32,060	32,120	23
24	32,550	32,610	32,680	32,740	32,800	32,860	32,920	32,980	33,040	33,100	33,160	33,220	33,280	33,340	33,400	33,460	33,520	33,580	33,640	33,700	33,760	24
25	34,130	34,200	34,260	34,330	34,390	34,460	34,520	34,590	34,650	34,710	34,780	34,840	34,900	34,970	35,030	35,090	35,160	35,220	35,280	35,350	35,410	25
26	35,720	35,780	35,850	35,920	35,990	36,050	36,120	36,190	36,260	36,320	36,390	36,460	36,520	36,590	36,660	36,720	36,790	36,850	36,920	36,990	37,050	26
27	37,310	37,380	37,450	37,520	37,590	37,660	37,730	37,800	37,870	37,940	38,010	38,080	38,150	38,220	38,290	38,360	38,430	38,500	38,570	38,640	38,700	27
28	39,050	39,120	39,190	39,270	39,340	39,420	39,490	39,570	39,640	39,710	39,790	39,860	39,930	40,010	40,080	40,150	40,230	40,300	40,370	40,440	40,520	28
29	40,800	40,870	40,950	41,030	41,110	41,190	41,270	41,340	41,420	41,500	41,580	41,650	41,730	41,810	41,880	41,960	42,040	42,110	42,190	42,260	42,340	29
30	42,540	42,620	42,700	42,790	42,870	42,950	43,030	43,110	43,190	43,280	43,360	43,440	43,520	43,600	43,680	43,760	43,840	43,920	44,000	44,080	44,160	30
31	44,260	44,340	44,430	44,510	44,600	44,680	44,770	44,850	44,940	45,020	45,110	45,190	45,280	45,360	45,440	45,530	45,610	45,700	45,780	45,860	45,940	31
32	45,980	46,070	46,150	46,240	46,330	46,420	46,510	46,600	46,690	46,780	46,860	46,950	47,040	47,130	47,210	47,300	47,390	47,480	47,560	47,650	47,730	32
33	47,720	47,810	47,910	48,000	48,090	48,180	48,280	48,370	48,460	48,550	48,640	48,740	48,830	48,920	49,010	49,100	49,190	49,280	49,370	49,460	49,550	33
34	49,460	49,560	49,650	49,750	49,850	49,940	50,040	50,130	50,230	50,330	50,420	50,520	50,610	50,710	50,800	50,890	50,990	51,080	51,180	51,270	51,360	34
35	51,210	51,310	51,410	51,510	51,610	51,710	51,810	51,910	52,010	52,110	52,210	52,300	52,400	52,500	52,600	52,700	52,790	52,890	52,990	53,090	53,180	35
36	52,950	53,060	53,160	53,270	53,370	53,470	53,580	53,680	53,780	53,880	53,990	54,090	54,190	54,290	54,400	54,500	54,600	54,700	54,800	54,900	55,000	36
37	55,440	55,550	55,660	55,770	55,880	55,980	56,090	56,200	56,310	56,420	56,530	56,640	56,740	56,850	56,960	57,070	57,170	57,280	57,390	57,490	57,600	37
38	57,910	58,020	58,140	58,260	58,370	58,490	58,600	58,710	58,830	58,940	59,060	59,170	59,280	59,400	59,510	59,620	59,740	59,850	59,960	60,070	60,180	38
39	60,390	60,510	60,640	60,760	60,880	61,000	61,120	61,240	61,360	61,480	61,600	61,720	61,840	61,960	62,070	62,190	62,310	62,430	62,550	62,660	62,780	39
40	62,820	62,950	63,070	63,200	63,330	63,450	63,580	63,700	63,830	63,950	64,080	64,200	64,330	64,450	64,580	64,700	64,820	64,950	65,070	65,190	65,320	40
41	65,260	65,390	65,530	65,660	65,790	65,920	66,050	66,190	66,320	66,450	66,580	66,710	66,840	66,970	67,100	67,230	67,360	67,480	67,610	67,740	67,870	41
42	67,740	67,880	68,020	68,150	68,290	68,430	68,570	68,700	68,840	68,980	69,110	69,250	69,390	69,520	69,660	69,790	69,930	70,060	70,190	70,330	70,460	42
43	70,230	70,370	70,510	70,660	70,800	70,950	71,090	71,230	71,370	71,520	71,660	71,800	71,940	72,080	72,220	72,360	72,500	72,640	72,780	72,920	73,060	43
44	72,710	72,860	73,010	73,160	73,310	73,460	73,600	73,750	73,900	74,050	74,200	74,340	74,490	74,640	74,780	74,930	75,070	75,220	75,370	75,510	75,650	44
45	75,190	75,350	75,500	75,660	75,810	75,970	76,120	76,280	76,430	76,580	76,740	76,890	77,040	77,200	77,350	77,500	77,650	77,800	77,950	78,100	78,250	45

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1071.0	1071.1	1071.2	1071.3	1071.4	1071.5	1071.6	1071.7	1071.8	1071.9	1072.0	1072.1	1072.2	1072.3	1072.4	1072.5	1072.6	1072.7	1072.8	1072.9	1073.0	
46	78,310	78,480	78,640	78,810	78,970	79,130	79,290	79,460	79,620	79,780	79,940	80,100	80,260	80,420	80,580	80,740	80,900	81,060	81,220	81,380	81,540	46
47	81,430	81,610	81,780	81,950	82,120	82,290	82,460	82,630	82,800	82,970	83,140	83,310	83,480	83,650	83,810	83,980	84,150	84,320	84,480	84,650	84,810	47
48	84,560	84,740	84,920	85,100	85,280	85,460	85,630	85,810	85,990	86,170	86,350	86,520	86,700	86,880	87,050	87,230	87,400	87,580	87,750	87,930	88,100	48
49	87,580	87,770	87,960	88,150	88,330	88,520	88,710	88,890	89,080	89,270	89,450	89,640	89,820	90,000	90,190	90,370	90,550	90,740	90,920	91,100	91,280	49
50	90,620	90,820	91,010	91,210	91,400	91,600	91,790	91,990	92,180	92,370	92,570	92,760	92,950	93,140	93,340	93,530	93,720	93,910	94,100	94,290	94,480	50
51	93,750	93,950	94,160	94,360	94,560	94,770	94,970	95,170	95,380	95,580	95,780	95,980	96,180	96,380	96,580	96,780	96,980	97,170	97,370	97,570	97,770	51
52	96,880	97,090	97,300	97,520	97,730	97,940	98,150	98,360	98,570	98,780	98,990	99,200	99,410	99,610	99,820	100,000	100,200	100,400	100,600	100,900	101,100	52
53	100,000	100,200	100,400	100,700	100,900	101,100	101,300	101,500	101,800	102,000	102,200	102,400	102,600	102,800	103,100	103,300	103,500	103,700	103,900	104,100	104,300	53
54	103,100	103,400	103,600	103,800	104,000	104,300	104,500	104,700	105,000	105,200	105,400	105,600	105,900	106,100	106,300	106,500	106,700	107,000	107,200	107,400	107,600	54
55	106,700	107,000	107,200	107,400	107,700	107,900	108,200	108,400	108,600	108,900	109,100	109,400	109,600	109,800	110,100	110,300	110,500	110,800	111,000	111,200	111,500	55
56	110,300	110,500	110,800	111,100	111,300	111,600	111,800	112,100	112,300	112,600	112,800	113,100	113,300	113,600	113,800	114,100	114,300	114,500	114,800	115,000	115,300	56
57	113,900	114,100	114,400	114,700	114,900	115,200	115,500	115,700	116,000	116,300	116,500	116,800	117,000	117,300	117,600	117,800	118,100	118,300	118,600	118,800	119,100	57
58	117,300	117,600	117,900	118,100	118,400	118,700	119,000	119,300	119,500	119,800	120,100	120,400	120,600	120,900	121,200	121,400	121,700	122,000	122,200	122,500	122,800	58
59	120,700	121,000	121,300	121,600	121,900	122,200	122,500	122,800	123,100	123,400	123,700	123,900	124,200	124,500	124,800	125,000	125,300	125,600	125,900	126,100	126,400	59
60	124,300	124,600	124,900	125,200	125,600	125,900	126,200	126,500	126,800	127,100	127,400	127,700	128,000	128,200	128,500	128,800	129,100	129,400	129,700	130,000	130,200	60
61	127,900	128,200	128,600	128,900	129,200	129,500	129,800	130,100	130,500	130,800	131,100	131,400	131,700	132,000	132,300	132,600	132,900	133,200	133,500	133,800	134,100	61
62	131,500	131,800	132,200	132,500	132,800	133,200	133,500	133,800	134,100	134,500	134,800	135,100	135,400	135,700	136,000	136,400	136,700	137,000	137,300	137,600	137,900	62
63	135,100	135,400	135,800	136,100	136,500	136,800	137,100	137,500	137,800	138,200	138,500	138,800	139,200	139,500	139,800	140,100	140,400	140,800	141,100	141,400	141,700	63
64	138,500	138,800	139,200	139,500	139,900	140,200	140,600	140,900	141,200	141,600	141,900	142,300	142,600	142,900	143,300	143,600	143,900	144,300	144,600	144,900	145,200	64
65	141,900	142,300	142,600	142,900	143,300	143,600	144,000	144,300	144,700	145,000	145,300	145,700	146,000	146,400	146,700	147,100	147,400	147,700	148,100	148,400	148,800	65
66	145,300	145,700	146,000	146,400	146,700	147,100	147,400	147,700	148,100	148,400	148,800	149,100	149,500	149,800	150,200	150,500	150,900	151,300	151,600	152,000	152,300	66
67	148,600	148,900	149,300	149,600	150,000	150,300	150,600	151,000	151,300	151,700	152,000	152,400	152,700	153,100	153,500	153,800	154,200	154,600	154,900	155,300	155,600	67
68	151,800	152,200	152,500	152,900	153,200	153,500	153,900	154,200	154,600	154,900	155,200	155,600	156,000	156,400	156,700	157,100	157,500	157,900	158,200	158,600	159,000	68
69	155,300	155,600	156,000	156,300	156,600	157,000	157,300	157,700	158,000	158,300	158,700	159,100	159,400	159,800	160,200	160,600	161,000	161,400	161,800	162,200	162,500	69
70	158,700	159,100	159,400	159,700	160,100	160,400	160,800	161,100	161,400	161,800	162,100	162,500	162,900	163,300	163,700	164,100	164,500	164,900	165,300	165,700	166,100	70
71	162,100	162,500	162,800	163,200	163,500	163,900	164,200	164,500	164,900	165,200	165,500	165,900	166,400	166,800	167,200	167,600	168,000	168,400	168,800	169,200	169,600	71
72	165,600	165,900	166,300	166,600	166,900	167,300	167,600	167,900	168,300	168,600	168,900	169,400	169,800	170,200	170,600	171,100	171,500	171,900	172,300	172,700	173,100	72
73	169,900	170,300	170,800	171,200	171,600	172,100	172,500	172,900	173,400	173,800	174,200	174,700	175,200	175,800	176,300	176,800	177,300	177,800	178,300	178,800	179,400	73
74	174,100	174,600	175,200	175,700	176,200	176,800	177,300	177,800	178,400	178,900	179,400	180,000	180,600	181,200	181,800	182,500	183,100	183,700	184,300	184,900	185,500	74
75	178,300	179,000	179,600	180,200	180,900	181,500	182,100	182,800	183,400	184,000	184,700	185,300	186,000	186,700	187,400	188,100	188,800	189,500	190,200	190,900	191,600	75
76	182,400	183,100	183,800	184,500	185,300	186,000	186,700	187,400	188,200	188,900	189,600	190,400	191,200	191,900	192,700	193,500	194,300	195,100	195,900	196,700	197,500	76
77	186,400	187,200	188,100	188,900	189,700	190,500	191,300	192,100	193,000	193,800	194,600	195,500	196,300	197,200	198,100	198,900	199,800	200,700	201,500	202,400	203,300	77
78	190,700	191,600	192,500	193,400	194,300	195,200	196,100	197,000	198,000	198,900	199,800	200,700	201,700	202,700	203,600	204,600	205,500	206,500	207,500	208,500	209,400	78
79	194,900	195,900	196,900	197,900	198,900	199,900	201,000	202,000	203,000	204,000	205,000	206,100	207,100	208,200	209,200	210,300	211,300	212,400	213,500	214,500	215,600	79
80	199,100	200,200	201,300	202,400	203,600	204,700	205,800	206,900	208,000	209,100	210,200	211,400	212,500	213,700	214,800	216,000	217,100	218,300	219,400	220,600	221,700	80
81	203,400	204,600	205,800	207,000	208,200	209,400	210,600	211,800	213,000	214,300	215,500	216,700	217,900	219,200	220,400	221,600	222,900	224,100	225,400	226,600	227,900	81

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1073.0	1073.1	1073.2	1073.3	1073.4	1073.5	1073.6	1073.7	1073.8	1073.9	1074.0	1074.1	1074.2	1074.3	1074.4	1074.5	1074.6	1074.7	1074.8	1074.9	1075.0	
1	940	940	940	940	940	940	950	950	950	950	950	950	960	960	960	960	960	960	960			1
2	1,970	1,970	1,970	1,980	1,980	1,980	1,990	1,990	1,990	2,000	2,000	2,000	2,010	2,010	2,010	2,010	2,020	2,020	2,020			2
3	2,940	2,950	2,950	2,960	2,960	2,970	2,970	2,980	2,980	2,990	2,990	3,000	3,000	3,010	3,010	3,020	3,020	3,030	3,030			3
4	3,930	3,930	3,940	3,950	3,950	3,960	3,970	3,970	3,980	3,990	3,990	4,000	4,000	4,010	4,020	4,020	4,030	4,040	4,040			4
5	4,850	4,860	4,870	4,880	4,880	4,890	4,900	4,910	4,920	4,920	4,930	4,940	4,950	4,960	4,960	4,970	4,980	4,990	5,000			5
6	5,850	5,860	5,870	5,880	5,890	5,900	5,910	5,920	5,930	5,940	5,940	5,950	5,960	5,970	5,980	5,990	6,000	6,010	6,020			6
7	6,810	6,820	6,830	6,840	6,850	6,870	6,880	6,890	6,900	6,910	6,920	6,930	6,940	6,960	6,970	6,980	6,990	7,000	7,010			7
8	7,810	7,820	7,840	7,850	7,860	7,880	7,890	7,900	7,910	7,930	7,940	7,950	7,970	7,980	7,990	8,000	8,020	8,030	8,040			8
9	8,820	8,830	8,850	8,860	8,880	8,890	8,910	8,920	8,940	8,950	8,960	8,980	8,990	9,010	9,020	9,040	9,050	9,070	9,080	9,090	9,110	9
10	10,500	10,510	10,530	10,550	10,570	10,580	10,600	10,620	10,640	10,650	10,670	10,690	10,710	10,720	10,740	10,760	10,770	10,790	10,810	10,830	10,840	10
11	12,170	12,190	12,210	12,230	12,250	12,270	12,290	12,310	12,330	12,350	12,380	12,400	12,420	12,440	12,460	12,480	12,500	12,520	12,540	12,560	12,580	11
12	13,850	13,880	13,900	13,920	13,950	13,970	13,990	14,020	14,040	14,060	14,090	14,110	14,130	14,160	14,180	14,200	14,220	14,250	14,270	14,290	14,320	12
13	15,520	15,550	15,570	15,600	15,630	15,650	15,680	15,700	15,730	15,760	15,780	15,810	15,840	15,860	15,890	15,910	15,940	15,960	15,990	16,020	16,040	13
14	17,190	17,220	17,250	17,280	17,310	17,340	17,370	17,400	17,430	17,460	17,490	17,520	17,540	17,570	17,600	17,630	17,660	17,690	17,720	17,740	17,770	14
15	18,870	18,910	18,940	18,970	19,000	19,040	19,070	19,100	19,130	19,160	19,200	19,230	19,260	19,290	19,320	19,350	19,390	19,420	19,450	19,480	19,510	15
16	20,560	20,600	20,630	20,670	20,700	20,740	20,770	20,810	20,840	20,880	20,910	20,940	20,980	21,010	21,050	21,080	21,120	21,150	21,190	21,220	21,250	16
17	22,240	22,270	22,310	22,350	22,390	22,430	22,460	22,500	22,540	22,580	22,610	22,650	22,690	22,730	22,760	22,800	22,840	22,880	22,910	22,950	22,990	17
18	23,900	23,940	23,980	24,020	24,060	24,100	24,150	24,190	24,230	24,270	24,310	24,350	24,390	24,430	24,470	24,510	24,550	24,590	24,630	24,670	24,710	18
19	25,550	25,590	25,640	25,680	25,720	25,770	25,810	25,860	25,900	25,940	25,990	26,030	26,070	26,120	26,160	26,200	26,250	26,290	26,330	26,370	26,420	19
20	27,210	27,260	27,300	27,350	27,400	27,440	27,490	27,540	27,580	27,630	27,680	27,720	27,770	27,820	27,860	27,910	27,960	28,000	28,050	28,090	28,140	20
21	28,850	28,900	28,950	29,000	29,050	29,100	29,150	29,200	29,250	29,300	29,350	29,400	29,450	29,500	29,550	29,600	29,650	29,700	29,750	29,800	29,840	21
22	30,490	30,550	30,600	30,650	30,710	30,760	30,810	30,870	30,920	30,970	31,020	31,080	31,130	31,180	31,230	31,290	31,340	31,390	31,440	31,490	31,540	22
23	32,120	32,170	32,230	32,290	32,340	32,400	32,450	32,510	32,570	32,620	32,680	32,730	32,790	32,840	32,900	32,950	33,010	33,060	33,120	33,170	33,230	23
24	33,760	33,820	33,880	33,940	34,000	34,060	34,120	34,180	34,240	34,290	34,350	34,410	34,470	34,530	34,590	34,640	34,700	34,760	34,820	34,880	34,930	24
25	35,410	35,470	35,530	35,600	35,660	35,720	35,780	35,840	35,910	35,970	36,030	36,090	36,150	36,210	36,270	36,330	36,400	36,460	36,520	36,580	36,640	25
26	37,050	37,120	37,180	37,250	37,310	37,380	37,440	37,510	37,570	37,640	37,700	37,770	37,830	37,890	37,960	38,020	38,090	38,150	38,210	38,280	38,340	26
27	38,700	38,770	38,840	38,910	38,980	39,050	39,110	39,180	39,250	39,320	39,390	39,450	39,520	39,590	39,650	39,720	39,790	39,850	39,920	39,990	40,050	27
28	40,520	40,590	40,660	40,730	40,800	40,880	40,950	41,020	41,090	41,160	41,230	41,300	41,370	41,440	41,510	41,580	41,650	41,730	41,800	41,870	41,930	28
29	42,340	42,420	42,490	42,570	42,640	42,720	42,790	42,870	42,940	43,020	43,090	43,170	43,240	43,310	43,390	43,460	43,540	43,610	43,680	43,760	43,830	29
30	44,160	44,240	44,310	44,390	44,470	44,550	44,630	44,710	44,790	44,860	44,940	45,020	45,100	45,180	45,250	45,330	45,410	45,490	45,560	45,640	45,720	30
31	45,940	46,030	46,110	46,190	46,270	46,360	46,440	46,520	46,600	46,680	46,770	46,850	46,930	47,010	47,090	47,170	47,250	47,330	47,410	47,490	47,570	31
32	47,730	47,820	47,910	47,990	48,080	48,160	48,250	48,340	48,420	48,510	48,590	48,680	48,760	48,840	48,930	49,010	49,100	49,180	49,260	49,350	49,430	32
33	49,550	49,640	49,730	49,820	49,910	50,000	50,090	50,180	50,270	50,350	50,440	50,530	50,620	50,710	50,790	50,880	50,970	51,060	51,140	51,230	51,320	33
34	51,360	51,460	51,550	51,640	51,740	51,830	51,920	52,010	52,110	52,200	52,290	52,380	52,470	52,560	52,660	52,750	52,840	52,930	53,020	53,110	53,200	34
35	53,180	53,280	53,380	53,470	53,570	53,670	53,760	53,860	53,950	54,050	54,150	54,240	54,340	54,430	54,530	54,620	54,710	54,810	54,900	55,000	55,090	35
36	55,000	55,100	55,200	55,300	55,400	55,500	55,600	55,700	55,800	55,900	56,000	56,100	56,200	56,290	56,390	56,490	56,590	56,690	56,780	56,880	56,980	36
37	57,600	57,700	57,810	57,920	58,020	58,130	58,230	58,340	58,440	58,550	58,650	58,750	58,860	58,960	59,060	59,170	59,270	59,370	59,480	59,580	59,680	37
38	60,180	60,290	60,410	60,520	60,630	60,740	60,850	60,960	61,070	61,180	61,290	61,400	61,510	61,620	61,730	61,830	61,940	62,050	62,160	62,270	62,370	38
39	62,780	62,900	63,010	63,130	63,250	63,360	63,480	63,600	63,710	63,830	63,940	64,060	64,170	64,290	64,400	64,510	64,630	64,740	64,850	64,970	65,080	39
40	65,320	65,440	65,560	65,680	65,800	65,930	66,050	66,170	66,290	66,410	66,530	66,650	66,770	66,890	67,010	67,130	67,250	67,370	67,490	67,600	67,720	40
41	67,870	68,000	68,120	68,250	68,380	68,510	68,630	68,760	68,880	69,010	69,140	69,260	69,390	69,510	69,640	69,760	69,890	70,010	70,130	70,260	70,380	41
42	70,460	70,590	70,730	70,860	70,990	71,120	71,260	71,390	71,520	71,650	71,780	71,910	72,040	72,170	72,300	72,430	72,560	72,690	72,820	72,950	73,080	42
43	73,060	73,200	73,340	73,480	73,610	73,750	73,890	74,030	74,160	74,300	74,440	74,570	74,710	74,840	74,980	75,120	75,250	75,390	75,520	75,650	75,790	43
44	75,650	75,800	75,940	76,090	76,230	76,370	76,520	76,660	76,800	76,940	77,090	77,230	77,370	77,510	77,650	77,790	77,930	78,070	78,210	78,350	78,490	44
45	78,250	78,400	78,550	78,700	78,850	79,000	79,150	79,300	79,440	79,590	79,740	79,890	80,030	80,180	80,330	80,470	80,620	80,760	80,910	81,050	81,200	45

See special instruction for preventing gate overflow on page 3.

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1073.0	1073.1	1073.2	1073.3	1073.4	1073.5	1073.6	1073.7	1073.8	1073.9	1074.0	1074.1	1074.2	1074.3	1074.4	1074.5	1074.6	1074.7	1074.8	1074.9	1075.0	
46	81,540	81,690	81,850	82,010	82,160	82,320	82,480	82,630	82,790	82,940	83,100	83,250	83,410	83,560	83,720	83,870	84,020	84,180	84,330	84,480	84,630	46
47	84,810	84,980	85,150	85,310	85,480	85,640	85,800	85,970	86,130	86,290	86,460	86,620	86,780	86,940	87,100	87,270	87,430	87,590	87,750	87,910	88,070	47
48	88,100	88,270	88,450	88,620	88,790	88,960	89,130	89,310	89,480	89,650	89,820	89,990	90,160	90,330	90,500	90,670	90,830	91,000	91,170	91,340	91,500	48
49	91,280	91,460	91,640	91,820	92,000	92,180	92,360	92,540	92,720	92,900	93,080	93,250	93,430	93,610	93,780	93,960	94,140	94,310	94,490	94,660	94,840	49
50	94,480	94,660	94,850	95,040	95,230	95,410	95,600	95,790	95,970	96,160	96,350	96,530	96,720	96,900	97,080	97,270	97,450	97,630	97,820	98,000	98,180	50
51	97,770	97,960	98,160	98,350	98,550	98,740	98,940	99,130	99,330	99,520	99,710	99,910	100,100	100,300	100,500	100,700	100,900	101,100	101,200	101,400	101,600	51
52	101,100	101,300	101,500	101,700	101,900	102,100	102,300	102,500	102,700	102,900	103,100	103,300	103,500	103,700	103,900	104,100	104,300	104,500	104,700	104,900	105,100	52
53	104,300	104,600	104,800	105,000	105,200	105,400	105,600	105,800	106,000	106,200	106,400	106,700	106,900	107,100	107,300	107,500	107,700	107,900	108,100	108,300	108,500	53
54	107,600	107,900	108,100	108,300	108,500	108,700	108,900	109,200	109,400	109,600	109,800	110,000	110,200	110,500	110,700	110,900	111,100	111,300	111,500	111,700	112,000	54
55	111,500	111,700	111,900	112,100	112,400	112,600	112,800	113,100	113,300	113,500	113,700	114,000	114,200	114,400	114,600	114,900	115,100	115,300	115,500	115,800	116,000	55
56	115,300	115,500	115,800	116,000	116,200	116,500	116,700	116,900	117,200	117,400	117,700	117,900	118,100	118,400	118,600	118,800	119,100	119,300	119,500	119,800	120,000	56
57	119,100	119,300	119,600	119,800	120,100	120,300	120,600	120,800	121,100	121,300	121,600	121,800	122,100	122,300	122,600	122,800	123,100	123,300	123,600	123,800	124,000	57
58	122,800	123,000	123,300	123,500	123,800	124,100	124,300	124,600	124,800	125,100	125,400	125,600	125,900	126,100	126,400	126,600	126,900	127,100	127,400	127,700	127,900	58
59	126,400	126,700	127,000	127,200	127,500	127,800	128,100	128,300	128,600	128,900	129,100	129,400	129,700	129,900	130,200	130,500	130,700	131,000	131,300	131,500	131,800	59
60	130,200	130,500	130,800	131,100	131,400	131,700	131,900	132,200	132,500	132,800	133,100	133,300	133,600	133,900	134,200	134,400	134,700	135,000	135,300	135,500	135,800	60
61	134,100	134,400	134,700	135,000	135,300	135,500	135,800	136,100	136,400	136,700	137,000	137,300	137,600	137,900	138,100	138,400	138,700	139,000	139,300	139,600	139,900	61
62	137,900	138,200	138,500	138,800	139,100	139,400	139,700	140,000	140,300	140,600	140,900	141,200	141,500	141,800	142,100	142,400	142,700	143,000	143,300	143,600	143,900	62
63	141,700	142,000	142,300	142,700	143,000	143,300	143,600	143,900	144,200	144,500	144,800	145,200	145,500	145,800	146,100	146,400	146,700	147,000	147,300	147,600	147,900	63
64	145,200	145,600	145,900	146,200	146,500	146,900	147,200	147,500	147,800	148,200	148,500	148,800	149,100	149,400	149,800	150,100	150,400	150,700	151,000	151,300	151,700	64
65	148,800	149,100	149,400	149,800	150,100	150,500	150,800	151,100	151,500	151,800	152,100	152,400	152,800	153,100	153,400	153,800	154,100	154,400	154,700	155,100	155,400	65
66	152,300	152,700	153,000	153,400	153,700	154,000	154,400	154,700	155,100	155,400	155,800	156,100	156,400	156,800	157,100	157,500	157,800	158,100	158,500	158,800	159,100	66
67	155,600	156,000	156,400	156,700	157,100	157,400	157,800	158,100	158,500	158,900	159,200	159,600	159,900	160,300	160,600	161,000	161,300	161,700	162,000	162,300	162,700	67
68	159,000	159,400	159,700	160,100	160,500	160,800	161,200	161,600	161,900	162,300	162,700	163,000	163,400	163,700	164,100	164,500	164,800	165,200	165,500	165,900	166,200	68
69	162,500	162,900	163,300	163,700	164,100	164,400	164,800	165,200	165,600	165,900	166,300	166,700	167,100	167,400	167,800	168,200	168,500	168,900	169,300	169,600	170,000	69
70	166,100	166,500	166,900	167,300	167,600	168,000	168,400	168,800	169,200	169,600	170,000	170,300	170,700	171,100	171,500	171,900	172,200	172,600	173,000	173,400	173,800	70
71	169,600	170,000	170,400	170,800	171,200	171,600	172,000	172,400	172,800	173,200	173,600	174,000	174,400	174,800	175,200	175,600	176,000	176,300	176,700	177,100	177,500	71
72	173,100	173,600	174,000	174,400	174,800	175,200	175,600	176,000	176,400	176,800	177,200	177,600	178,000	178,500	178,900	179,300	179,700	180,100	180,400	180,800	181,200	72
73	179,400	179,900	180,400	180,900	181,400	181,900	182,400	182,900	183,400	183,900	184,400	184,900	185,400	185,900	186,400	186,900	187,400	187,900	188,400	188,900	189,400	73
74	185,500	186,100	186,700	187,300	187,900	188,500	189,100	189,700	190,300	190,900	191,500	192,100	192,700	193,300	193,900	194,500	195,200	195,800	196,400	197,000	197,600	74
75	191,600	192,300	193,000	193,700	194,400	195,100	195,800	196,500	197,200	198,000	198,700	199,400	200,100	200,800	201,500	202,200	202,900	203,600	204,300	205,000	205,700	75
76	197,500	198,200	199,000	199,800	200,600	201,400	202,200	203,000	203,800	204,600	205,400	206,200	207,000	207,800	208,600	209,400	210,200	211,000	211,800	212,600	213,400	76
77	203,300	204,200	205,100	205,900	206,800	207,700	208,600	209,500	210,400	211,200	212,100	213,000	213,900	214,800	215,700	216,600	217,500	218,400	219,300	220,200	221,100	77
78	209,400	210,400	211,400	212,300	213,300	214,300	215,300	216,300	217,300	218,200	219,200	220,200	221,200	222,200	223,200	224,200	225,200	226,200	227,200	228,200	229,200	78
79	215,600	216,700	217,700	218,800	219,900	220,900	222,000	223,100	224,200	225,300	226,400	227,500	228,500	229,600	230,700	231,800	232,900	234,000	235,100	236,200	237,400	79
80	221,700	222,900	224,100	225,200	226,400	227,600	228,700	229,900	231,100	232,300	233,500	234,700	235,900	237,100	238,300	239,500	240,700	241,900	243,100	244,300	245,500	80
81	227,900	229,100	230,400	231,700	232,900	234,200	235,500	236,800	238,000	239,300	240,600	241,900	243,200	244,500	245,800	247,100	248,400	249,700	251,000	252,300	253,600	81

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1075.0	1075.1	1075.2	1075.3	1075.4	1075.5	1075.6	1075.7	1075.8	1075.9	1076.0	1076.1	1076.2	1076.3	1076.4	1076.5	1076.6	1076.7	1076.8	1076.9	1077.0	
6																						6
7																						7
8																						8
9	9, 110	9, 120	9, 140	9, 150	9, 170	9, 180																9
10	10, 840	10, 860	10, 880	10, 890	10, 910	10, 930																10
11	12, 580	12, 600	12, 620	12, 640	12, 660	12, 680																11
12	14, 320	14, 340	14, 360	14, 380	14, 410	14, 430																12
13	16, 040	16, 070	16, 090	16, 120	16, 140	16, 170																13
14	17, 770	17, 800	17, 830	17, 860	17, 890	17, 910																14
15	19, 510	19, 540	19, 570	19, 610	19, 640	19, 670																15
16	21, 250	21, 290	21, 320	21, 360	21, 390	21, 420																16
17	22, 990	23, 020	23, 060	23, 100	23, 140	23, 170																17
18	24, 710	24, 750	24, 790	24, 830	24, 870	24, 910	24, 950	24, 990	25, 030	25, 070	25, 100	25, 140	25, 180	25, 220	25, 260	25, 300	25, 340	25, 380	25, 420			18
19	26, 420	26, 460	26, 500	26, 550	26, 590	26, 630	26, 670	26, 710	26, 760	26, 800	26, 840	26, 880	26, 930	26, 970	27, 010	27, 050	27, 090	27, 130	27, 180			19
20	28, 140	28, 180	28, 230	28, 280	28, 320	28, 370	28, 410	28, 460	28, 500	28, 550	28, 590	28, 640	28, 680	28, 730	28, 770	28, 820	28, 860	28, 910	28, 950			20
21	29, 840	29, 890	29, 940	29, 990	30, 040	30, 090	30, 130	30, 180	30, 230	30, 280	30, 330	30, 370	30, 420	30, 470	30, 520	30, 570	30, 610	30, 660	30, 710			21
22	31, 540	31, 600	31, 650	31, 700	31, 750	31, 800	31, 850	31, 900	31, 950	32, 010	32, 060	32, 110	32, 160	32, 210	32, 260	32, 310	32, 360	32, 410	32, 460			22
23	33, 230	33, 280	33, 340	33, 390	33, 440	33, 500	33, 550	33, 610	33, 660	33, 710	33, 770	33, 820	33, 880	33, 930	33, 980	34, 040	34, 090	34, 140	34, 190			23
24	34, 930	34, 990	35, 050	35, 100	35, 160	35, 220	35, 280	35, 330	35, 390	35, 450	35, 500	35, 560	35, 620	35, 670	35, 730	35, 780	35, 840	35, 900	35, 950			24
25	36, 640	36, 700	36, 760	36, 820	36, 880	36, 940	37, 000	37, 060	37, 120	37, 180	37, 240	37, 300	37, 360	37, 420	37, 470	37, 530	37, 590	37, 650	37, 710			25
26	38, 340	38, 400	38, 470	38, 530	38, 590	38, 660	38, 720	38, 780	38, 840	38, 910	38, 970	39, 030	39, 090	39, 160	39, 220	39, 280	39, 340	39, 400	39, 460			26
27	40, 050	40, 120	40, 190	40, 250	40, 320	40, 380	40, 450	40, 520	40, 580	40, 650	40, 710	40, 780	40, 840	40, 910	40, 970	41, 040	41, 100	41, 170	41, 230	41, 300	41, 360	27
28	41, 930	42, 000	42, 070	42, 140	42, 210	42, 280	42, 350	42, 420	42, 490	42, 560	42, 630	42, 700	42, 760	42, 830	42, 900	42, 970	43, 040	43, 100	43, 170	43, 240	43, 310	28
29	43, 830	43, 900	43, 980	44, 050	44, 120	44, 190	44, 270	44, 340	44, 410	44, 480	44, 560	44, 630	44, 700	44, 770	44, 840	44, 910	44, 990	45, 060	45, 130	45, 200	45, 270	29
30	45, 720	45, 790	45, 870	45, 950	46, 020	46, 100	46, 170	46, 250	46, 320	46, 400	46, 480	46, 550	46, 630	46, 700	46, 780	46, 850	46, 930	47, 000	47, 070	47, 150	47, 220	30
31	47, 570	47, 650	47, 730	47, 810	47, 890	47, 970	48, 050	48, 130	48, 210	48, 290	48, 370	48, 440	48, 520	48, 600	48, 680	48, 760	48, 840	48, 910	48, 990	49, 070	49, 150	31
32	49, 430	49, 510	49, 600	49, 680	49, 760	49, 850	49, 930	50, 010	50, 090	50, 180	50, 260	50, 340	50, 420	50, 500	50, 590	50, 670	50, 750	50, 830	50, 910	50, 990	51, 070	32
33	51, 320	51, 400	51, 490	51, 580	51, 660	51, 750	51, 840	51, 920	52, 010	52, 090	52, 180	52, 260	52, 350	52, 430	52, 520	52, 600	52, 690	52, 770	52, 860	52, 940	53, 030	33
34	53, 200	53, 290	53, 380	53, 470	53, 560	53, 650	53, 740	53, 830	53, 920	54, 010	54, 090	54, 180	54, 270	54, 360	54, 450	54, 540	54, 620	54, 710	54, 800	54, 890	54, 970	34
35	55, 090	55, 180	55, 280	55, 370	55, 460	55, 560	55, 650	55, 740	55, 830	55, 930	56, 020	56, 110	56, 200	56, 290	56, 390	56, 480	56, 570	56, 660	56, 750	56, 840	56, 930	35
36	56, 980	57, 080	57, 170	57, 270	57, 370	57, 460	57, 560	57, 650	57, 750	57, 850	57, 940	58, 040	58, 130	58, 230	58, 320	58, 420	58, 510	58, 610	58, 700	58, 790	58, 890	36
37	59, 680	59, 780	59, 890	59, 990	60, 090	60, 190	60, 290	60, 390	60, 500	60, 600	60, 700	60, 800	60, 900	61, 000	61, 100	61, 200	61, 300	61, 400	61, 500	61, 600	61, 700	37
38	62, 370	62, 480	62, 590	62, 700	62, 800	62, 910	63, 020	63, 120	63, 230	63, 340	63, 440	63, 550	63, 650	63, 760	63, 860	63, 970	64, 070	64, 180	64, 280	64, 390	64, 490	38
39	65, 080	65, 190	65, 310	65, 420	65, 530	65, 640	65, 760	65, 870	65, 980	66, 090	66, 200	66, 310	66, 420	66, 530	66, 640	66, 750	66, 860	66, 970	67, 080	67, 190	67, 300	39
40	67, 720	67, 840	67, 960	68, 080	68, 190	68, 310	68, 430	68, 540	68, 660	68, 780	68, 890	69, 010	69, 130	69, 240	69, 360	69, 470	69, 590	69, 700	69, 820	69, 930	70, 050	40
41	70, 380	70, 500	70, 630	70, 750	70, 870	70, 990	71, 120	71, 240	71, 360	71, 480	71, 600	71, 720	71, 850	71, 970	72, 090	72, 210	72, 330	72, 450	72, 570	72, 690	72, 810	41
42	73, 080	73, 210	73, 340	73, 470	73, 590	73, 720	73, 850	73, 980	74, 100	74, 230	74, 360	74, 480	74, 610	74, 730	74, 860	74, 990	75, 110	75, 240	75, 360	75, 490	75, 610	42
43	75, 790	75, 920	76, 060	76, 190	76, 320	76, 460	76, 590	76, 720	76, 850	76, 980	77, 120	77, 250	77, 380	77, 510	77, 640	77, 770	77, 900	78, 030	78, 160	78, 290	78, 420	43
44	78, 490	78, 630	78, 770	78, 910	79, 050	79, 180	79, 320	79, 460	79, 600	79, 730	79, 870	80, 010	80, 140	80, 280	80, 420	80, 550	80, 690	80, 820	80, 960	81, 090	81, 230	44
45	81, 200	81, 340	81, 490	81, 630	81, 770	81, 920	82, 060	82, 200	82, 350	82, 490	82, 630	82, 770	82, 910	83, 050	83, 200	83, 340	83, 480	83, 620	83, 760	83, 900	84, 040	45
46	84, 630	84, 780	84, 940	85, 090	85, 240	85, 390	85, 540	85, 690	85, 840	85, 990	86, 140	86, 290	86, 440	86, 590	86, 740	86, 880	87, 030	87, 180	87, 330	87, 470	87, 620	46
47	88, 070	88, 230	88, 390	88, 540	88, 700	88, 860	89, 020	89, 180	89, 330	89, 490	89, 650	89, 810	89, 960	90, 120	90, 270	90, 430	90, 580	90, 740	90, 890	91, 050	91, 200	47
48	91, 500	91, 670	91, 840	92, 000	92, 170	92, 340	92, 500	92, 670	92, 830	93, 000	93, 160	93, 320	93, 490	93, 650	93, 810	93, 980	94, 140	94, 300	94, 460	94, 630	94, 790	48
49	94, 840	95, 010	95, 180	95, 360	95, 530	95, 700	95, 880	96, 050	96, 220	96, 390	96, 560	96, 740	96, 910	97, 080	97, 250	97, 420	97, 590	97, 760	97, 930	98, 090	98, 260	49
50	98, 180	98, 360	98, 540	98, 720	98, 900	99, 080	99, 260	99, 440	99, 620	99, 800	99, 980	100, 200	100, 300	100, 500	100, 700	100, 900	101, 000	101, 200	101, 400	101, 600	101, 800	50

See special instruction for preventing gate overflow on page 3.

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1075.0	1075.1	1075.2	1075.3	1075.4	1075.5	1075.6	1075.7	1075.8	1075.9	1076.0	1076.1	1076.2	1076.3	1076.4	1076.5	1076.6	1076.7	1076.8	1076.9	1077.0	
51	101,600	101,800	102,000	102,200	102,400	102,600	102,800	102,900	103,100	103,300	103,500	103,700	103,900	104,100	104,200	104,400	104,600	104,800	105,000	105,200	105,300	51
52	105,100	105,300	105,500	105,700	105,900	106,000	106,200	106,400	106,600	106,800	107,000	107,200	107,400	107,600	107,800	108,000	108,200	108,400	108,600	108,700	108,900	52
53	108,500	108,700	108,900	109,100	109,300	109,500	109,700	109,900	110,100	110,300	110,500	110,700	110,900	111,100	111,300	111,500	111,700	111,900	112,100	112,300	112,500	53
54	112,000	112,200	112,400	112,600	112,800	113,000	113,200	113,400	113,600	113,800	114,100	114,300	114,500	114,700	114,900	115,100	115,300	115,500	115,700	115,900	116,100	54
55	116,000	116,200	116,400	116,700	116,900	117,100	117,300	117,500	117,800	118,000	118,200	118,400	118,600	118,800	119,100	119,300	119,500	119,700	119,900	120,100	120,400	55
56	120,000	120,200	120,500	120,700	120,900	121,200	121,400	121,600	121,900	122,100	122,300	122,500	122,800	123,000	123,200	123,400	123,700	123,900	124,100	124,300	124,600	56
57	124,000	124,300	124,500	124,800	125,000	125,200	125,500	125,700	126,000	126,200	126,400	126,700	126,900	127,200	127,400	127,600	127,900	128,100	128,300	128,600	128,800	57
58	127,900	128,200	128,400	128,700	128,900	129,200	129,400	129,700	129,900	130,200	130,400	130,700	130,900	131,200	131,400	131,600	131,900	132,100	132,400	132,600	132,900	58
59	131,800	132,000	132,300	132,600	132,800	133,100	133,300	133,600	133,900	134,100	134,400	134,600	134,900	135,200	135,400	135,700	135,900	136,200	136,400	136,700	136,900	59
60	135,800	136,100	136,400	136,600	136,900	137,200	137,400	137,700	138,000	138,300	138,500	138,800	139,100	139,300	139,600	139,900	140,100	140,400	140,600	140,900	141,200	60
61	139,900	140,100	140,400	140,700	141,000	141,300	141,500	141,800	142,100	142,400	142,700	142,900	143,200	143,500	143,800	144,000	144,300	144,600	144,900	145,100	145,400	61
62	143,900	144,200	144,500	144,800	145,100	145,300	145,600	145,900	146,200	146,500	146,800	147,100	147,400	147,700	147,900	148,200	148,500	148,800	149,100	149,400	149,600	62
63	147,900	148,200	148,500	148,800	149,100	149,400	149,700	150,000	150,300	150,600	150,900	151,200	151,500	151,800	152,100	152,400	152,700	153,000	153,300	153,600	153,900	63
64	151,700	152,000	152,300	152,600	152,900	153,200	153,500	153,800	154,200	154,500	154,800	155,100	155,400	155,700	156,000	156,300	156,600	156,900	157,200	157,500	157,800	64
65	155,400	155,700	156,000	156,400	156,700	157,000	157,300	157,600	158,000	158,300	158,600	158,900	159,200	159,600	159,900	160,200	160,500	160,800	161,100	161,400	161,700	65
66	159,100	159,500	159,800	160,100	160,500	160,800	161,100	161,500	161,800	162,100	162,500	162,800	163,100	163,400	163,800	164,100	164,400	164,700	165,100	165,400	165,700	66
67	162,700	163,000	163,400	163,700	164,100	164,400	164,700	165,100	165,400	165,800	166,100	166,400	166,800	167,100	167,400	167,800	168,100	168,400	168,800	169,100	169,400	67
68	166,200	166,600	166,900	167,300	167,600	168,000	168,300	168,700	169,000	169,400	169,700	170,100	170,400	170,800	171,100	171,500	171,800	172,100	172,500	172,800	173,200	68
69	170,000	170,400	170,700	171,100	171,500	171,800	172,200	172,500	172,900	173,200	173,600	174,000	174,300	174,700	175,000	175,400	175,700	176,100	176,400	176,800	177,100	69
70	173,800	174,100	174,500	174,900	175,200	175,600	176,000	176,400	176,700	177,100	177,500	177,800	178,200	178,500	178,900	179,300	179,600	180,000	180,400	180,700	181,100	70
71	177,500	177,900	178,300	178,700	179,000	179,400	179,800	180,200	180,600	180,900	181,300	181,700	182,100	182,400	182,800	183,200	183,500	183,900	184,300	184,700	185,000	71
72	181,200	181,600	182,000	182,400	182,800	183,200	183,600	184,000	184,400	184,800	185,100	185,500	185,900	186,300	186,700	187,100	187,400	187,800	188,200	188,600	189,000	72
73	189,400	189,900	190,400	190,900	191,400	191,900	192,400	192,900	193,400	193,900	194,400	194,900	195,400	195,900	196,400	196,900	197,400	197,900	198,400	198,800	199,300	73
74	197,600	198,200	198,800	199,400	200,000	200,600	201,200	201,800	202,400	203,000	203,600	204,200	204,800	205,400	206,000	206,600	207,200	207,800	208,400	209,000	209,600	74
75	205,700	206,400	207,100	207,800	208,600	209,300	210,000	210,700	211,400	212,100	212,800	213,500	214,200	215,000	215,700	216,400	217,100	217,800	218,500	219,200	220,000	75
76	213,400	214,200	215,000	215,800	216,600	217,400	218,200	219,000	219,800	220,700	221,500	222,300	223,100	223,900	224,700	225,500	226,400	227,200	228,000	228,800	229,600	76
77	221,100	222,000	222,900	223,800	224,700	225,600	226,500	227,400	228,300	229,200	230,200	231,100	232,000	232,900	233,800	234,700	235,700	236,600	237,500	238,400	239,400	77
78	229,200	230,200	231,200	232,200	233,200	234,200	235,300	236,300	237,300	238,300	239,300	240,400	241,400	242,400	243,400	244,500	245,500	246,500	247,600	248,600	249,700	78
79	237,400	238,500	239,600	240,700	241,800	242,900	244,100	245,200	246,300	247,400	248,600	249,700	250,800	252,000	253,100	254,200	255,400	256,500	257,700	258,800	260,000	79
80	245,500	246,700	247,900	249,100	250,400	251,600	252,800	254,100	255,300	256,500	257,800	259,000	260,300	261,500	262,800	264,000	265,300	266,500	267,800	269,000	270,300	80
81	253,600	255,000	256,300	257,600	258,900	260,300	261,600	263,000	264,300	265,600	267,000	268,300	269,700	271,000	272,400	273,800	275,100	276,500	277,900	279,300	280,600	81

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1077.0	1077.1	1077.2	1077.3	1077.4	1077.5	1077.6	1077.7	1077.8	1077.9	1078.0	1078.1	1078.2	1078.3	1078.4	1078.5	1078.6	1078.7	1078.8	1078.9	1079.0	
26																						26
27	41,360	41,420	41,490	41,550	41,620	41,680	41,740	41,810	41,870	41,930	42,000	42,060										27
28	43,310	43,370	43,440	43,510	43,580	43,640	43,710	43,780	43,840	43,910	43,980	44,040										28
29	45,270	45,340	45,410	45,480	45,550	45,620	45,690	45,760	45,830	45,900	45,970	46,040										29
30	47,220	47,300	47,370	47,450	47,520	47,590	47,670	47,740	47,810	47,890	47,960	48,030										30
31	49,150	49,220	49,300	49,380	49,460	49,530	49,610	49,690	49,760	49,840	49,910	49,990										31
32	51,070	51,150	51,230	51,310	51,390	51,470	51,550	51,630	51,710	51,790	51,870	51,950										32
33	53,030	53,110	53,190	53,280	53,360	53,440	53,530	53,610	53,690	53,780	53,860	53,940										33
34	54,970	55,060	55,150	55,240	55,320	55,410	55,500	55,580	55,670	55,750	55,840	55,930										34
35	56,930	57,020	57,110	57,200	57,290	57,380	57,470	57,560	57,650	57,740	57,830	57,920										35
36	58,890	58,980	59,080	59,170	59,260	59,360	59,450	59,540	59,630	59,730	59,820	59,910	60,000	60,100	60,190	60,280	60,370	60,460	60,560	60,650	60,740	36
37	61,700	61,790	61,890	61,990	62,090	62,190	62,290	62,390	62,480	62,580	62,680	62,780	62,870	62,970	63,070	63,160	63,260	63,360	63,450	63,550	63,650	37
38	64,490	64,600	64,700	64,800	64,910	65,010	65,110	65,220	65,320	65,420	65,530	65,630	65,730	65,830	65,930	66,040	66,140	66,240	66,340	66,440	66,540	38
39	67,300	67,410	67,520	67,630	67,740	67,850	67,950	68,060	68,170	68,280	68,390	68,490	68,600	68,710	68,810	68,920	69,030	69,130	69,240	69,350	69,450	39
40	70,050	70,160	70,270	70,390	70,500	70,610	70,730	70,840	70,950	71,070	71,180	71,290	71,400	71,510	71,630	71,740	71,850	71,960	72,070	72,180	72,290	40
41	72,810	72,930	73,040	73,160	73,280	73,400	73,520	73,640	73,750	73,870	73,990	74,110	74,220	74,340	74,460	74,570	74,690	74,810	74,920	75,040	75,150	41
42	75,610	75,730	75,860	75,980	76,110	76,230	76,350	76,480	76,600	76,720	76,840	76,970	77,090	77,210	77,330	77,450	77,570	77,690	77,820	77,940	78,060	42
43	78,420	78,550	78,680	78,810	78,940	79,070	79,190	79,320	79,450	79,580	79,710	79,830	79,960	80,090	80,210	80,340	80,470	80,590	80,720	80,840	80,970	43
44	81,230	81,360	81,500	81,630	81,760	81,900	82,030	82,160	82,300	82,430	82,560	82,700	82,830	82,960	83,090	83,220	83,350	83,480	83,620	83,750	83,880	44
45	84,040	84,180	84,320	84,460	84,600	84,730	84,870	85,010	85,150	85,290	85,420	85,560	85,700	85,830	85,970	86,110	86,240	86,380	86,520	86,650	86,790	45
46	87,620	87,770	87,910	88,060	88,210	88,350	88,500	88,640	88,790	88,930	89,080	89,220	89,370	89,510	89,650	89,800	89,940	90,080	90,230	90,370	90,510	46
47	91,200	91,360	91,510	91,660	91,820	91,970	92,120	92,280	92,430	92,580	92,730	92,880	93,030	93,180	93,340	93,490	93,640	93,790	93,940	94,090	94,230	47
48	94,790	94,950	95,110	95,270	95,430	95,590	95,750	95,910	96,070	96,230	96,390	96,550	96,700	96,860	97,020	97,180	97,330	97,490	97,650	97,800	97,960	48
49	98,260	98,430	98,600	98,770	98,930	99,100	99,270	99,430	99,600	99,770	99,930	100,100	100,300	100,400	100,600	100,800	100,900	101,100	101,200	101,400	101,600	49
50	101,800	101,900	102,100	102,300	102,400	102,600	102,800	103,000	103,100	103,300	103,500	103,700	103,800	104,000	104,200	104,300	104,500	104,700	104,900	105,000	105,200	50
51	105,300	105,500	105,700	105,900	106,100	106,300	106,400	106,600	106,800	107,000	107,200	107,300	107,500	107,700	107,900	108,000	108,200	108,400	108,600	108,800	108,900	51
52	108,900	109,100	109,300	109,500	109,700	109,900	110,100	110,300	110,400	110,600	110,800	111,000	111,200	111,400	111,600	111,700	111,900	112,100	112,300	112,500	112,700	52
53	112,500	112,700	112,900	113,100	113,300	113,500	113,700	113,900	114,100	114,300	114,500	114,700	114,900	115,100	115,200	115,400	115,600	115,800	116,000	116,200	116,400	53
54	116,100	116,300	116,500	116,700	116,900	117,100	117,300	117,500	117,700	117,900	118,100	118,300	118,500	118,700	118,900	119,100	119,300	119,500	119,700	119,900	120,100	54
55	120,400	120,600	120,800	121,000	121,200	121,400	121,600	121,800	122,100	122,300	122,500	122,700	122,900	123,100	123,300	123,500	123,700	123,900	124,100	124,400	124,600	55
56	124,600	124,800	125,000	125,200	125,500	125,700	125,900	126,100	126,400	126,600	126,800	127,000	127,200	127,500	127,700	127,900	128,100	128,300	128,500	128,800	129,000	56
57	128,800	129,000	129,300	129,500	129,700	130,000	130,200	130,400	130,700	130,900	131,100	131,300	131,600	131,800	132,000	132,300	132,500	132,700	132,900	133,200	133,400	57
58	132,900	133,100	133,400	133,600	133,800	134,100	134,300	134,600	134,800	135,000	135,300	135,500	135,800	136,000	136,200	136,500	136,700	136,900	137,200	137,400	137,600	58
59	136,900	137,200	137,400	137,700	137,900	138,200	138,400	138,700	138,900	139,200	139,400	139,700	139,900	140,200	140,400	140,700	140,900	141,200	141,400	141,700	141,900	59
60	141,200	141,400	141,700	142,000	142,200	142,500	142,700	143,000	143,300	143,500	143,800	144,000	144,300	144,500	144,800	145,100	145,300	145,600	145,800	146,100	146,300	60
61	145,400	145,700	146,000	146,200	146,500	146,800	147,000	147,300	147,600	147,800	148,100	148,400	148,600	148,900	149,200	149,400	149,700	150,000	150,200	150,500	150,800	61
62	149,600	149,900	150,200	150,500	150,800	151,000	151,300	151,600	151,900	152,200	152,400	152,700	153,000	153,300	153,500	153,800	154,100	154,400	154,600	154,900	155,200	62
63	153,900	154,200	154,500	154,700	155,000	155,300	155,600	155,900	156,200	156,500	156,800	157,100	157,300	157,600	157,900	158,200	158,500	158,800	159,000	159,300	159,600	63
64	157,800	158,100	158,400	158,700	159,000	159,300	159,600	159,900	160,200	160,500	160,800	161,100	161,400	161,700	162,000	162,300	162,600	162,900	163,200	163,500	163,800	64
65	161,700	162,100	162,400	162,700	163,000	163,300	163,600	163,900	164,200	164,500	164,900	165,200	165,500	165,800	166,100	166,400	166,700	167,000	167,300	167,600	167,900	65
66	165,700	166,000	166,300	166,700	167,000	167,300	167,600	168,000	168,300	168,600	168,900	169,200	169,500	169,900	170,200	170,500	170,800	171,100	171,400	171,800	172,100	66
67	169,400	169,800	170,100	170,400	170,800	171,100	171,400	171,800	172,100	172,400	172,700	173,100	173,400	173,700	174,100	174,400	174,700	175,000	175,400	175,700	176,000	67
68	173,200	173,500	173,900	174,200	174,500	174,900	175,200	175,600	175,900	176,200	176,600	176,900	177,300	177,600	177,900	178,300	178,600	178,900	179,300	179,600	179,900	68
69	177,100	177,500	177,800	178,200	178,500	178,900	179,200	179,600	179,900	180,300	180,600	181,000	181,300	181,700	182,000	182,400	182,700	183,100	183,400	183,800	184,100	69
70	181,100	181,400	181,800	182,200	182,500	182,900	183,300	183,600	184,000	184,300	184,700	185,100	185,400	185,800	186,100	186,500	186,900	187,200	187,600	187,900	188,300	70

See special instruction for preventing gate overflow on page 3.

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1077.0	1077.1	1077.2	1077.3	1077.4	1077.5	1077.6	1077.7	1077.8	1077.9	1078.0	1078.1	1078.2	1078.3	1078.4	1078.5	1078.6	1078.7	1078.8	1078.9	1079.0	
71	185,000	185,400	185,800	186,200	186,500	186,900	187,300	187,700	188,000	188,400	188,800	189,100	189,500	189,900	190,200	190,600	191,000	191,300	191,700	192,100	192,400	71
72	189,000	189,300	189,700	190,100	190,500	190,900	191,300	191,700	192,000	192,400	192,800	193,200	193,600	193,900	194,300	194,700	195,100	195,400	195,800	196,200	196,600	72
73	199,300	199,800	200,300	200,800	201,300	201,800	202,200	202,400	202,700	203,000	203,200	203,500	203,800	204,100	204,400	204,600	204,900	205,300	205,600	205,900	206,200	73
74	209,600	210,200	210,900	211,500	212,100	212,700	213,100	213,400	213,500	213,700	213,800	214,000	214,100	214,300	214,500	214,700	214,900	215,200	215,400	215,700	215,900	74
75	220,000	220,700	221,400	222,100	222,900	223,600	224,100	224,200	224,200	224,300	224,300	224,300	224,400	224,500	224,600	224,700	224,800	225,000	225,200	225,400	225,600	75
76	229,600	230,500	231,300	232,100	233,000	233,800	234,300	234,300	234,200	234,200	234,100	234,000	234,000	234,000	234,000	234,000	234,100	234,200	234,300	234,400	234,500	76
77	239,400	240,300	241,200	242,200	243,100	244,000	244,500	244,400	244,200	244,000	243,800	243,600	243,500	243,400	243,400	243,300	243,200	243,300	243,400	243,400	243,500	77
78	249,700	250,700	251,700	252,800	253,800	254,900	255,500	255,300	255,000	254,600	254,300	254,000	253,900	253,700	253,500	253,300	253,200	253,200	253,200	253,200	253,200	78
79	260,000	261,100	262,300	263,500	264,600	265,800	266,400	266,100	265,700	265,300	264,800	264,400	264,100	263,900	263,600	263,300	263,100	263,000	263,000	262,900	262,800	79
80	270,300	271,600	272,800	274,100	275,400	276,700	277,400	277,000	276,500	275,900	275,400	274,800	274,500	274,100	273,700	273,400	273,100	272,900	272,800	272,600	272,500	80
81	280,600	282,000	283,400	284,800	286,200	287,600	288,400	287,900	287,200	286,500	285,900	285,200	284,800	284,300	283,800	283,400	283,000	282,800	282,600	282,400	282,200	81

CHEROKEE DAM
SPILLWAY DISCHARGE
IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1079.0	1079.1	1079.1	1079.1	1079.2	1079.2	1079.3	1079.3	1079.4	1079.4	1079.5	1079.5	1079.6	1079.6	1079.7	1079.7	1079.8	1079.8	1079.9	1079.9	1080.0	
31																						31
32																						32
33																						33
34																						34
35																						35
36	60, 740	60, 780	60, 830	60, 870	60, 920	60, 970	61, 010	61, 060														36
37	63, 650	63, 690	63, 740	63, 790	63, 840	63, 890	63, 930	63, 980														37
38	66, 540	66, 590	66, 640	66, 690	66, 740	66, 790	66, 840	66, 890														38
39	69, 450	69, 510	69, 560	69, 610	69, 660	69, 720	69, 770	69, 820														39
40	72, 290	72, 350	72, 400	72, 460	72, 510	72, 570	72, 620	72, 680														40
41	75, 150	75, 210	75, 270	75, 330	75, 380	75, 440	75, 500	75, 560														41
42	78, 060	78, 120	78, 180	78, 240	78, 300	78, 360	78, 420	78, 480														42
43	80, 970	81, 030	81, 090	81, 160	81, 220	81, 280	81, 340	81, 410	81, 470													43
44	83, 880	83, 940	84, 010	84, 070	84, 140	84, 200	84, 270	84, 330	84, 400													44
45	86, 790	86, 850	86, 920	86, 990	87, 060	87, 120	87, 190	87, 260	87, 330	87, 390	87, 460	87, 530	87, 590	87, 660	87, 730	87, 800	87, 860	87, 930	88, 000	88, 060	88, 130	45
46	90, 510	90, 580	90, 650	90, 720	90, 790	90, 870	90, 940	91, 010	91, 080	91, 150	91, 220	91, 290	91, 360	91, 430	91, 500	91, 570	91, 640	91, 710	91, 780	91, 850	91, 920	46
47	94, 230	94, 310	94, 380	94, 460	94, 530	94, 610	94, 680	94, 750	94, 830	94, 900	94, 980	95, 050	95, 120	95, 200	95, 270	95, 350	95, 420	95, 490	95, 570	95, 640	95, 710	47
48	97, 960	98, 040	98, 120	98, 190	98, 270	98, 350	98, 430	98, 510	98, 580	98, 660	98, 740	98, 820	98, 890	98, 970	99, 050	99, 120	99, 200	99, 280	99, 360	99, 430	99, 510	48
49	101, 600	101, 700	101, 700	101, 800	101, 900	102, 000	102, 100	102, 100	102, 200	102, 300	102, 400	102, 500	102, 500	102, 600	102, 700	102, 800	102, 900	102, 900	103, 000	103, 100	103, 200	49
50	105, 200	105, 300	105, 400	105, 500	105, 500	105, 600	105, 700	105, 800	105, 900	106, 000	106, 000	106, 100	106, 200	106, 300	106, 400	106, 500	106, 500	106, 600	106, 700	106, 800	106, 900	50
51	108, 900	109, 000	109, 100	109, 200	109, 300	109, 400	109, 500	109, 500	109, 600	109, 700	109, 800	109, 900	110, 000	110, 100	110, 200	110, 200	110, 300	110, 400	110, 500	110, 600	110, 700	51
52	112, 700	112, 800	112, 900	112, 900	113, 000	113, 100	113, 200	113, 300	113, 400	113, 500	113, 600	113, 700	113, 800	113, 900	113, 900	114, 000	114, 100	114, 200	114, 300	114, 400	114, 500	52
53	116, 400	116, 500	116, 600	116, 700	116, 800	116, 900	117, 000	117, 100	117, 200	117, 300	117, 300	117, 400	117, 500	117, 600	117, 700	117, 800	117, 900	118, 000	118, 100	118, 200	118, 300	53
54	120, 100	120, 200	120, 300	120, 400	120, 500	120, 600	120, 700	120, 800	120, 900	121, 000	121, 100	121, 200	121, 300	121, 400	121, 500	121, 600	121, 700	121, 800	121, 900	122, 000	122, 100	54
55	124, 600	124, 700	124, 800	124, 900	125, 000	125, 100	125, 200	125, 300	125, 400	125, 500	125, 600	125, 700	125, 800	125, 900	126, 000	126, 100	126, 200	126, 300	126, 400	126, 500	126, 600	55
56	129, 000	129, 100	129, 200	129, 300	129, 400	129, 500	129, 600	129, 700	129, 800	129, 900	130, 100	130, 200	130, 300	130, 400	130, 500	130, 600	130, 700	130, 800	130, 900	131, 000	131, 100	56
57	133, 400	133, 500	133, 600	133, 700	133, 800	134, 000	134, 100	134, 200	134, 300	134, 400	134, 500	134, 600	134, 700	134, 900	135, 000	135, 100	135, 200	135, 300	135, 400	135, 500	135, 600	57
58	137, 600	137, 800	137, 900	138, 000	138, 100	138, 200	138, 300	138, 500	138, 600	138, 700	138, 800	138, 900	139, 000	139, 200	139, 300	139, 400	139, 500	139, 600	139, 700	139, 900	140, 000	58
59	141, 900	142, 000	142, 100	142, 300	142, 400	142, 500	142, 600	142, 700	142, 900	143, 000	143, 100	143, 200	143, 400	143, 500	143, 600	143, 700	143, 800	144, 000	144, 100	144, 200	144, 300	59
60	146, 300	146, 500	146, 600	146, 700	146, 800	147, 000	147, 100	147, 200	147, 300	147, 500	147, 600	147, 700	147, 800	148, 000	148, 100	148, 200	148, 300	148, 500	148, 600	148, 700	148, 800	60
61	150, 800	150, 900	151, 000	151, 200	151, 300	151, 400	151, 500	151, 700	151, 800	151, 900	152, 100	152, 200	152, 300	152, 500	152, 600	152, 700	152, 800	153, 000	153, 100	153, 200	153, 400	61
62	155, 200	155, 300	155, 500	155, 600	155, 700	155, 900	156, 000	156, 100	156, 300	156, 400	156, 500	156, 700	156, 800	156, 900	157, 100	157, 200	157, 300	157, 500	157, 600	157, 700	157, 900	62
63	159, 600	159, 700	159, 900	160, 000	160, 200	160, 300	160, 400	160, 600	160, 700	160, 900	161, 000	161, 100	161, 300	161, 400	161, 600	161, 700	161, 800	162, 000	162, 100	162, 300	162, 400	63
64	163, 800	163, 900	164, 000	164, 200	164, 300	164, 500	164, 600	164, 800	164, 900	165, 100	165, 200	165, 400	165, 500	165, 600	165, 800	165, 900	166, 100	166, 200	166, 400	166, 500	166, 700	64
65	167, 900	168, 100	168, 200	168, 400	168, 500	168, 700	168, 800	169, 000	169, 100	169, 300	169, 400	169, 600	169, 700	169, 900	170, 000	170, 200	170, 300	170, 500	170, 600	170, 700	170, 900	65
66	172, 100	172, 200	172, 400	172, 500	172, 700	172, 800	173, 000	173, 200	173, 300	173, 500	173, 600	173, 800	173, 900	174, 100	174, 200	174, 400	174, 500	174, 700	174, 900	175, 000	175, 200	66
67	176, 000	176, 200	176, 300	176, 500	176, 600	176, 800	177, 000	177, 100	177, 300	177, 400	177, 600	177, 800	177, 900	178, 100	178, 200	178, 400	178, 600	178, 700	178, 900	179, 000	179, 200	67
68	179, 900	180, 100	180, 300	180, 400	180, 600	180, 800	180, 900	181, 100	181, 300	181, 400	181, 600	181, 800	181, 900	182, 100	182, 200	182, 400	182, 600	182, 700	182, 900	183, 100	183, 200	68
69	184, 100	184, 300	184, 400	184, 600	184, 800	185, 000	185, 100	185, 300	185, 500	185, 600	185, 800	186, 000	186, 200	186, 300	186, 500	186, 700	186, 800	187, 000	187, 200	187, 300	187, 500	69
70	188, 300	188, 400	188, 600	188, 800	189, 000	189, 200	189, 300	189, 500	189, 700	189, 900	190, 000	190, 200	190, 400	190, 600	190, 700	190, 900	191, 100	191, 200	191, 400	191, 600	191, 800	70
71	192, 400	192, 600	192, 800	193, 000	193, 200	193, 300	193, 500	193, 700	193, 900	194, 100	194, 200	194, 400	194, 600	194, 800	195, 000	195, 100	195, 300	195, 500	195, 700	195, 900	196, 000	71
72	196, 600	196, 800	196, 900	197, 100	197, 300	197, 500	197, 700	197, 900	198, 100	198, 200	198, 400	198, 600	198, 800	199, 000	199, 200	199, 400	199, 500	199, 700	199, 900	200, 100	200, 300	72
73	206, 200	206, 300	206, 500	206, 700	206, 800	207, 000	207, 100	207, 300	207, 400	207, 600	207, 700	207, 900	208, 100	208, 300	208, 400	208, 600	208, 800	209, 000	209, 200	209, 400	209, 500	73
74	215, 900	216, 000	216, 100	216, 300	216, 400	216, 500	216, 600	216, 700	216, 900	217, 000	217, 100	217, 200	217, 400	217, 500	217, 700	217, 900	218, 100	218, 300	218, 500	218, 600	218, 800	74
75	225, 600	225, 600	225, 700	225, 800	225, 900	226, 000	226, 100	226, 200	226, 200	226, 300	226, 400	226, 500	226, 600	226, 800	227, 000	227, 200	227, 400	227, 500	227, 700	227, 900	228, 100	75

See special instruction for preventing gate overflow on page 3.

CHEROKEE DAM

SPILLWAY DISCHARGE

IN CUBIC FEET PER SECOND

GATE ARRANGE-MENT	HEADWATER ELEVATION																					GATE ARRANGE-MENT
	1079.0	1079.1	1079.1	1079.1	1079.2	1079.2	1079.3	1079.3	1079.4	1079.4	1079.5	1079.5	1079.6	1079.6	1079.7	1079.7	1079.8	1079.8	1079.9	1079.9	1080.0	
76	234, 500	234, 600	234, 600	234, 700	234, 800	234, 800	234, 900	234, 900	235, 000	235, 000	235, 100	235, 100	235, 300	235, 400	235, 600	235, 800	236, 000	236, 200	236, 300	236, 500	236, 700	76
77	243, 500	243, 500	243, 500	243, 500	243, 600	243, 600	243, 600	243, 600	243, 600	243, 700	243, 700	243, 700	243, 900	244, 000	244, 200	244, 400	244, 600	244, 800	244, 900	245, 100	245, 300	77
78	253, 200	253, 100	253, 100	253, 100	253, 100	253, 100	253, 100	253, 100	253, 100	253, 100	253, 000	253, 100	253, 100	253, 300	253, 500	253, 700	253, 900	254, 000	254, 200	254, 400	254, 600	78
79	262, 800	262, 800	262, 700	262, 700	262, 600	262, 600	262, 600	262, 500	262, 500	262, 400	262, 400	262, 400	262, 400	262, 600	262, 800	262, 900	263, 100	263, 300	263, 500	263, 700	263, 900	79
80	272, 500	272, 400	272, 400	272, 300	272, 200	272, 100	272, 000	272, 000	271, 900	271, 800	271, 700	271, 700	271, 700	271, 800	272, 000	272, 200	272, 400	272, 600	272, 800	273, 000	273, 100	80
81	282, 200	282, 100	282, 000	281, 800	281, 700	281, 600	281, 500	281, 400	281, 300	281, 200	281, 000	281, 000	281, 000	281, 100	281, 300	281, 500	281, 700	281, 900	282, 000	282, 200	282, 400	81

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PART 2

SLUICE DISCHARGE TABLES

MARCH 1999

INSTRUCTIONS FOR USE OF TABLES

1. Tables Update

These tables supersede the tables dated August 1977. The revised discharges were generated using the computer code SPILLQ and are only slightly different from those in the 1977 tables.

2. Purpose of Tables

These tables provide a means of setting up or determining the discharge through the sluices in Cherokee Dam. They give the total discharge in cubic feet per second through all eight sluices when the headwater elevation, tailwater elevation, and sluice gate openings are known. The discharges are based on river gaging station discharge records correlated with measurements of differential pressures in the sluice barrels.

The tables have been prepared to permit simultaneous operation of all eight sluices shown on page 4 except for the first 1-foot gate opening, as noted on each page. For this first opening only gates 2, 4, 6, and 8 are opened one foot.

3. Range of Tables

The tables cover a discharge range from 0 to 32,140 cubic feet per second. Headwater elevations range from 980 feet to 1080 feet. Sluice gate openings range from 1 foot, which is the minimum acceptable opening, to 10 feet, at which the gate is fully open.

4. Arrangement of Tables

The sluice discharge tables show discharges in cubic feet per second for all sluices set at identical openings, except for the first opening as noted on each page. Gate opening positions in 0.2-foot increments are listed in the left and right columns. Headwater elevations for each foot of headwater elevation are shown at the top of each column. The headwater range is shown at the bottom of each page.

Separate tables have been prepared for each different range of tailwater elevation. The first tailwater range covers all possible elevations up to 927.99 feet. The tables are then repeated for each 2-foot range of tailwater elevation up to 939.99 feet. The tailwater range is shown at the bottom of each page

Discharges are recorded to the nearest 10 cubic feet per second since the accuracy of the field measurements does not warrant greater refinement. For this reason, there should be no interpolation between values given in these tables.

5. Gate Opening Indicator

The gate opening indicator consists of an indicating device and scale graduated in 0.01-foot increments between 0 and 10 feet. The indicator is plainly visible from the gate opening control valves, which makes it relatively easy to accurately set a required gate opening position.

6. Use of Tables

The use of the tables is best illustrated by examples.

Example 1 -- With the tailwater elevation at 931.82 feet and the headwater elevation at 1045.33 feet, what sluice gate settings are necessary to pass 12,000 cubic feet per second? Referring to the contents page we find that tailwater range 930.00 to 931.99 starts on page 54. Within this tailwater range, headwater elevations between 1040 feet and 1060 feet are found on page 57. The headwater

elevation closest to 1045.33 feet is 1045 feet. In the column with this heading, the discharge nearest to 12,000 cubic feet per second is found to be 11,980 cubic feet per second. By following the horizontal line containing this discharge to the left or right columns of the page, it is found that all eight sluice gates should be opened 4.2 feet.

Suppose the headwater elevation should rise from elevation 1045.32 feet to 1046.42 feet with no change in the tailwater elevation. The headwater elevation closest to 1046.42 feet is 1046 feet. In the column headed 1046 the discharge is found to be 12,040 cubic feet per second with all gates opened 4.2 feet. No change in gate opening is required.

Example 2 -- The effect of change in tailwater elevation is shown by the following example. Suppose it were required to discharge 29,000 cubic feet per second with the headwater at elevation 1053.86 feet and the tailwater at elevation 932.63 feet. Referring to the contents page we find that tailwater range 932.00 to 933.99 starts on page 59. The headwater elevation closest to 1053.86 feet is 1054 feet. In the column headed 1054 on page 62 the discharge closest to 29,000 cubic feet per second is 28,990 cubic feet per second with all eight gates opened 9.0 feet each. If operation under those conditions causes the tailwater to rise to elevation 936.42 feet, the set of pages marked "tailwater 936.00 to 937.99" would be used. At the same headwater elevation the discharge closest to 29,000 cubic feet per second on page 72 is 28,980 cubic feet per second for a 9.2-foot gate opening. It would thus be necessary to change all eight gates from a 9.0-foot gate opening position to a 9.2-foot gate opening position.

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1,200	1,210	1,210	1,220	1.0*
1.0	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	2,360	2,370	2,390	2,410	2,430	2,450	1.0
1.2	2,470	2,490	2,520	2,540	2,570	2,590	2,620	2,640	2,660	2,690	2,710	2,730	2,750	2,780	2,800	2,820	2,840	2,870	2,890	2,910	2,930	1.2
1.4	2,830	2,850	2,880	2,910	2,940	2,970	2,990	3,020	3,050	3,080	3,100	3,130	3,160	3,180	3,210	3,230	3,260	3,280	3,310	3,330	3,360	1.4
1.6	3,150	3,180	3,220	3,250	3,280	3,310	3,340	3,370	3,400	3,430	3,460	3,490	3,520	3,550	3,580	3,610	3,630	3,660	3,690	3,720	3,750	1.6
1.8	3,480	3,520	3,550	3,590	3,620	3,660	3,690	3,730	3,760	3,790	3,830	3,860	3,890	3,920	3,960	3,990	4,020	4,050	4,080	4,110	4,140	1.8
2.0	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	4,410	4,450	4,480	4,520	4,550	2.0
2.2	4,160	4,200	4,250	4,290	4,330	4,370	4,410	4,460	4,500	4,540	4,580	4,620	4,650	4,690	4,730	4,770	4,810	4,850	4,880	4,920	4,960	2.2
2.4	4,490	4,540	4,580	4,630	4,680	4,720	4,770	4,810	4,850	4,900	4,940	4,980	5,020	5,070	5,110	5,150	5,190	5,230	5,270	5,310	5,350	2.4
2.6	4,840	4,890	4,940	4,990	5,040	5,080	5,130	5,180	5,230	5,270	5,320	5,370	5,410	5,460	5,500	5,550	5,590	5,640	5,680	5,720	5,770	2.6
2.8	5,190	5,250	5,300	5,360	5,410	5,460	5,510	5,570	5,620	5,670	5,720	5,770	5,820	5,870	5,910	5,960	6,010	6,060	6,110	6,150	6,200	2.8
3.0	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	6,580	6,630	3.0
3.2	5,910	5,970	6,030	6,090	6,160	6,220	6,280	6,330	6,390	6,450	6,510	6,570	6,620	6,680	6,730	6,790	6,840	6,900	6,950	7,010	7,060	3.2
3.4	6,260	6,320	6,390	6,450	6,520	6,580	6,650	6,710	6,770	6,830	6,890	6,960	7,020	7,080	7,130	7,190	7,250	7,310	7,370	7,420	7,480	3.4
3.6	6,610	6,680	6,750	6,820	6,890	6,950	7,020	7,090	7,150	7,220	7,280	7,350	7,410	7,470	7,540	7,600	7,660	7,720	7,780	7,840	7,900	3.6
3.8	6,970	7,040	7,120	7,190	7,260	7,340	7,410	7,480	7,550	7,620	7,690	7,750	7,820	7,890	7,950	8,020	8,090	8,150	8,210	8,280	8,340	3.8
4.0	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	8,650	8,720	8,790	4.0
4.2	7,710	7,790	7,870	7,950	8,030	8,110	8,190	8,270	8,350	8,430	8,500	8,580	8,660	8,730	8,800	8,880	8,950	9,020	9,090	9,170	9,240	4.2
4.4	8,080	8,160	8,250	8,340	8,420	8,510	8,590	8,670	8,760	8,840	8,920	9,000	9,080	9,160	9,230	9,310	9,390	9,460	9,540	9,610	9,690	4.4
4.6	8,460	8,550	8,640	8,730	8,820	8,910	9,000	9,090	9,180	9,260	9,350	9,430	9,510	9,590	9,680	9,760	9,840	9,920	10,000	10,080	10,150	4.6
4.8	8,850	8,950	9,050	9,140	9,240	9,330	9,420	9,510	9,600	9,690	9,780	9,870	9,960	10,050	10,130	10,220	10,300	10,390	10,470	10,550	10,630	4.8
5.0	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	11,030	11,120	5.0
5.2	9,660	9,770	9,870	9,980	10,080	10,190	10,290	10,390	10,490	10,590	10,680	10,780	10,880	10,970	11,070	11,160	11,250	11,350	11,440	11,530	11,620	5.2
5.4	10,080	10,190	10,300	10,410	10,520	10,630	10,730	10,840	10,940	11,050	11,150	11,250	11,350	11,450	11,550	11,650	11,750	11,840	11,940	12,030	12,130	5.4
5.6	10,500	10,620	10,740	10,850	10,970	11,080	11,190	11,300	11,410	11,520	11,630	11,730	11,840	11,940	12,050	12,150	12,250	12,350	12,450	12,550	12,650	5.6
5.8	10,940	11,070	11,190	11,310	11,430	11,540	11,660	11,780	11,890	12,000	12,120	12,230	12,340	12,450	12,560	12,660	12,770	12,880	12,980	13,080	13,190	5.8
6.0	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	13,740	6.0
6.2	11,850	11,990	12,120	12,250	12,380	12,510	12,640	12,760	12,890	13,010	13,130	13,260	13,380	13,500	13,610	13,730	13,850	13,960	14,080	14,190	14,300	6.2
6.4	12,320	12,460	12,600	12,730	12,870	13,010	13,140	13,270	13,400	13,530	13,660	13,780	13,910	14,030	14,160	14,280	14,400	14,520	14,640	14,760	14,880	6.4
6.6	12,790	12,940	13,080	13,230	13,370	13,510	13,650	13,780	13,920	14,050	14,190	14,320	14,450	14,580	14,710	14,840	14,960	15,090	15,210	15,340	15,460	6.6
6.8	13,270	13,420	13,570	13,720	13,870	14,010	14,160	14,300	14,440	14,580	14,720	14,860	15,000	15,130	15,270	15,400	15,530	15,660	15,790	15,920	16,050	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,150	17,350	17,550	17,740	17,940	18,130	18,320	18,510	18,700	18,880	19,070	19,250	19,430	19,610	19,780	19,960	20,130	20,310	20,480	20,650	20,810	8.6
8.8	17,630	17,830	18,020	18,220	18,410	18,610	18,800	18,980	19,170	19,350	19,540	19,720	19,900	20,070	20,250	20,420	20,600	20,770	20,940	21,110	21,280	8.8
9.0	18,040	18,240	18,440	18,630	18,820	19,010	19,200	19,390	19,570	19,760	19,940	20,120	20,290	20,470	20,640	20,820	20,990	21,160	21,330	21,500	21,660	9.0
9.2	18,450	18,650	18,840	19,030	19,220	19,410	19,600	19,780	19,960	20,140	20,320	20,500	20,680	20,850	21,030	21,200	21,370	21,540	21,700	21,870	22,040	9.2
9.4	18,860	19,050	19,240	19,430	19,620	19,800	19,990	20,170	20,350	20,530	20,710	20,880	21,060	21,230	21,400	21,570	21,740	21,910	22,070	22,240	22,400	9.4
9.6	19,250	19,440	19,630	19,820	20,000	20,180	20,360	20,540	20,720	20,900	21,070	21,250	21,420	21,590	21,760	21,930	22,100	22,260	22,430	22,590	22,750	9.6
9.8	19,620	19,810	19,990	20,180	20,360	20,540	20,720	20,900	21,070	21,250	21,420	21,590	21,760	21,930	22,100	22,260	22,430	22,590	22,760	22,920	23,080	9.8
10.0	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	21,740	21,910	22,070	22,240	22,410	22,570	22,730	22,890	23,050	23,210	23,370	10.0

HEADWATER 980 to 1000
TAILWATER Up to 927.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1,330	1,340	1,350	1,360	1,370	1,370	1,380	1,390	1.0*
1.0	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	2,670	2,680	2,700	2,710	2,730	2,750	2,760	2,780	1.0
1.2	2,930	2,950	2,970	2,990	3,010	3,030	3,060	3,080	3,100	3,120	3,140	3,160	3,180	3,200	3,210	3,230	3,250	3,270	3,290	3,310	3,330	1.2
1.4	3,360	3,380	3,410	3,430	3,450	3,480	3,500	3,520	3,550	3,570	3,590	3,620	3,640	3,660	3,680	3,710	3,730	3,750	3,770	3,790	3,820	1.4
1.6	3,750	3,770	3,800	3,830	3,850	3,880	3,910	3,930	3,960	3,980	4,010	4,040	4,060	4,090	4,110	4,140	4,160	4,190	4,210	4,230	4,260	1.6
1.8	4,140	4,170	4,200	4,230	4,260	4,290	4,320	4,350	4,380	4,410	4,430	4,460	4,490	4,520	4,550	4,570	4,600	4,630	4,660	4,680	4,710	1.8
2.0	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	5,000	5,030	5,060	5,090	5,120	5,150	5,180	2.0
2.2	4,960	4,990	5,030	5,060	5,100	5,140	5,170	5,210	5,240	5,270	5,310	5,340	5,380	5,410	5,440	5,480	5,510	5,540	5,580	5,610	5,640	2.2
2.4	5,350	5,390	5,430	5,470	5,510	5,550	5,580	5,620	5,660	5,700	5,730	5,770	5,810	5,840	5,880	5,920	5,950	5,990	6,020	6,060	6,090	2.4
2.6	5,770	5,810	5,850	5,890	5,930	5,980	6,020	6,060	6,100	6,140	6,180	6,220	6,260	6,300	6,340	6,380	6,410	6,450	6,490	6,530	6,570	2.6
2.8	6,200	6,240	6,290	6,330	6,380	6,420	6,470	6,510	6,560	6,600	6,640	6,690	6,730	6,770	6,810	6,850	6,900	6,940	6,980	7,020	7,060	2.8
3.0	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	7,340	7,380	7,430	7,470	7,510	7,560	3.0
3.2	7,060	7,110	7,160	7,220	7,270	7,320	7,370	7,420	7,470	7,520	7,570	7,620	7,670	7,720	7,760	7,810	7,860	7,910	7,950	8,000	8,050	3.2
3.4	7,480	7,540	7,590	7,650	7,700	7,750	7,810	7,860	7,920	7,970	8,020	8,070	8,130	8,180	8,230	8,280	8,330	8,380	8,430	8,480	8,530	3.4
3.6	7,900	7,960	8,020	8,080	8,140	8,200	8,250	8,310	8,370	8,420	8,480	8,530	8,590	8,640	8,700	8,750	8,800	8,860	8,910	8,960	9,010	3.6
3.8	8,340	8,400	8,470	8,530	8,590	8,650	8,710	8,770	8,830	8,890	8,950	9,010	9,070	9,120	9,180	9,240	9,300	9,350	9,410	9,460	9,520	3.8
4.0	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,920	9,970	10,030	4.0
4.2	9,240	9,310	9,370	9,440	9,510	9,580	9,650	9,710	9,780	9,850	9,910	9,980	10,040	10,110	10,170	10,230	10,300	10,360	10,420	10,480	10,550	4.2
4.4	9,690	9,760	9,830	9,910	9,980	10,050	10,120	10,190	10,260	10,330	10,400	10,470	10,540	10,600	10,670	10,740	10,800	10,870	10,940	11,000	11,070	4.4
4.6	10,150	10,230	10,310	10,380	10,460	10,530	10,610	10,680	10,760	10,830	10,900	10,970	11,050	11,120	11,190	11,260	11,330	11,400	11,470	11,530	11,600	4.6
4.8	10,630	10,710	10,790	10,870	10,950	11,030	11,110	11,190	11,270	11,340	11,420	11,490	11,570	11,640	11,720	11,790	11,870	11,940	12,010	12,080	12,150	4.8
5.0	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	12,490	12,570	12,640	12,720	5.0
5.2	11,620	11,710	11,800	11,880	11,970	12,060	12,140	12,230	12,310	12,400	12,480	12,570	12,650	12,730	12,810	12,890	12,970	13,050	13,130	13,210	13,290	5.2
5.4	12,130	12,220	12,310	12,410	12,500	12,590	12,680	12,770	12,860	12,940	13,030	13,120	13,210	13,290	13,380	13,460	13,550	13,630	13,710	13,800	13,880	5.4
5.6	12,650	12,750	12,840	12,940	13,040	13,130	13,230	13,320	13,410	13,500	13,600	13,690	13,780	13,870	13,960	14,050	14,130	14,220	14,310	14,400	14,480	5.6
5.8	13,190	13,290	13,390	13,490	13,590	13,690	13,790	13,890	13,980	14,080	14,180	14,270	14,370	14,460	14,550	14,650	14,740	14,830	14,920	15,010	15,100	5.8
6.0	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	15,550	15,650	15,740	6.0
6.2	14,300	14,410	14,530	14,640	14,740	14,850	14,960	15,070	15,170	15,280	15,380	15,490	15,590	15,690	15,790	15,900	16,000	16,100	16,200	16,290	16,390	6.2
6.4	14,880	14,990	15,110	15,220	15,340	15,450	15,560	15,670	15,790	15,900	16,000	16,110	16,220	16,330	16,430	16,540	16,640	16,750	16,850	16,950	17,060	6.4
6.6	15,460	15,580	15,700	15,820	15,940	16,060	16,170	16,290	16,410	16,520	16,630	16,750	16,860	16,970	17,080	17,190	17,300	17,410	17,520	17,620	17,730	6.6
6.8	16,050	16,170	16,300	16,420	16,550	16,670	16,790	16,910	17,030	17,150	17,270	17,390	17,500	17,620	17,740	17,850	17,960	18,080	18,190	18,300	18,410	6.8
7.0	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	18,980	19,090	7.0
7.2	17,220	17,360	17,500	17,630	17,760	17,900	18,030	18,160	18,290	18,420	18,540	18,670	18,800	18,920	19,050	19,170	19,290	19,420	19,540	19,660	19,780	7.2
7.4	17,800	17,950	18,090	18,230	18,360	18,500	18,640	18,770	18,910	19,040	19,170	19,310	19,440	19,570	19,700	19,820	19,950	20,080	20,200	20,330	20,450	7.4
7.6	18,370	18,520	18,670	18,810	18,950	19,100	19,240	19,380	19,520	19,650	19,790	19,930	20,060	20,200	20,330	20,460	20,600	20,730	20,860	20,990	21,110	7.6
7.8	18,920	19,070	19,220	19,370	19,520	19,670	19,810	19,960	20,100	20,240	20,390	20,530	20,670	20,800	20,940	21,080	21,220	21,350	21,490	21,620	21,750	7.8
8.0	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	22,340	8.0
8.2	19,900	20,060	20,220	20,380	20,540	20,690	20,850	21,000	21,150	21,300	21,450	21,600	21,750	21,900	22,040	22,190	22,330	22,470	22,620	22,760	22,900	8.2
8.4	20,350	20,510	20,680	20,840	21,000	21,160	21,320	21,470	21,630	21,780	21,940	22,090	22,240	22,390	22,540	22,690	22,840	22,990	23,130	23,280	23,420	8.4
8.6	20,810	20,980	21,140	21,310	21,470	21,630	21,790	21,950	22,110	22,270	22,420	22,580	22,730	22,880	23,040	23,190	23,340	23,480	23,630	23,780	23,920	8.6
8.8	21,280	21,440	21,610	21,770	21,930	22,090	22,250	22,410	22,570	22,730	22,880	23,040	23,190	23,340	23,500	23,650	23,800	23,940	24,090	24,240	24,390	8.8
9.0	21,660	21,830	21,990	22,150	22,320	22,480	22,640	22,790	22,950	23,110	23,260	23,420	23,570	23,720	23,870	24,020	24,170	24,320	24,470	24,610	24,760	9.0
9.2	22,040	22,200	22,360	22,520	22,680	22,840	23,000	23,160	23,320	23,470	23,620	23,780	23,930	24,080	24,230	24,380	24,530	24,680	24,820	24,970	25,110	9.2
9.4	22,400	22,560	22,730	22,890	23,050	23,200	23,360	23,520	23,670	23,830	23,980	24,130	24,280	24,430	24,580	24,730	24,880	25,020	25,170	25,310	25,460	9.4
9.6	22,750	22,910	23,070	23,230	23,390	23,550	23,700	23,860	24,010	24,160	24,320	24,470	24,620	24,770	24,910	25,060	25,210	25,350	25,500	25,640	25,780	9.6
9.8	23,080	23,240	23,400	23,550	23,710	23,860	24,020	24,170	24,320	24,480	24,630	24,780	24,920	25,070	25,220	25,360	25,510	25,650	25,800	25,940	26,080	9.8
10.0	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	24,600	24,750	24,900	25,050	25,200	25,340	25,490	25,630	25,780	25,920	26,060	26,200	26,340	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1000 to 1020
TAILWATER Up to 927.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1,390	1,400	1,400	1,410	1,420	1,430	1,440	1,440	1,450	1,460	1,470	1,470	1,480	1,490	1,490	1,500	1,510	1,520	1,520	1,530	1,540	1.0*
1.0	2,780	2,790	2,810	2,820	2,840	2,860	2,870	2,890	2,900	2,920	2,930	2,940	2,960	2,970	2,990	3,000	3,020	3,030	3,050	3,060	3,070	1.0
1.2	3,330	3,350	3,370	3,380	3,400	3,420	3,440	3,460	3,480	3,490	3,510	3,530	3,550	3,560	3,580	3,600	3,620	3,630	3,650	3,670	3,680	1.2
1.4	3,820	3,840	3,860	3,880	3,900	3,920	3,940	3,960	3,980	4,000	4,020	4,040	4,070	4,090	4,110	4,130	4,150	4,170	4,180	4,200	4,220	1.4
1.6	4,260	4,280	4,310	4,330	4,350	4,380	4,400	4,420	4,450	4,470	4,490	4,520	4,540	4,560	4,580	4,610	4,630	4,650	4,670	4,690	4,720	1.6
1.8	4,710	4,740	4,760	4,790	4,820	4,840	4,870	4,890	4,920	4,940	4,970	4,990	5,020	5,040	5,070	5,090	5,120	5,140	5,170	5,190	5,220	1.8
2.0	5,180	5,210	5,230	5,260	5,290	5,320	5,350	5,380	5,410	5,430	5,460	5,490	5,520	5,540	5,570	5,600	5,630	5,650	5,680	5,710	5,730	2.0
2.2	5,640	5,670	5,700	5,740	5,770	5,800	5,830	5,860	5,890	5,920	5,950	5,980	6,010	6,040	6,070	6,100	6,130	6,160	6,190	6,220	6,250	2.2
2.4	6,090	6,130	6,160	6,200	6,230	6,260	6,300	6,330	6,360	6,400	6,430	6,460	6,500	6,530	6,560	6,590	6,620	6,660	6,690	6,720	6,750	2.4
2.6	6,570	6,600	6,640	6,680	6,710	6,750	6,790	6,820	6,860	6,900	6,930	6,970	7,000	7,040	7,070	7,110	7,140	7,180	7,210	7,240	7,280	2.6
2.8	7,060	7,100	7,140	7,180	7,220	7,260	7,300	7,340	7,380	7,420	7,450	7,490	7,530	7,570	7,610	7,640	7,680	7,720	7,750	7,790	7,830	2.8
3.0	7,560	7,600	7,640	7,690	7,730	7,770	7,810	7,850	7,900	7,940	7,980	8,020	8,060	8,100	8,140	8,180	8,220	8,260	8,300	8,340	8,380	3.0
3.2	8,050	8,090	8,140	8,180	8,230	8,280	8,320	8,360	8,410	8,450	8,500	8,540	8,580	8,630	8,670	8,710	8,760	8,800	8,840	8,880	8,930	3.2
3.4	8,530	8,580	8,630	8,680	8,720	8,770	8,820	8,870	8,910	8,960	9,010	9,050	9,100	9,150	9,190	9,240	9,280	9,330	9,370	9,420	9,460	3.4
3.6	9,010	9,070	9,120	9,170	9,220	9,270	9,320	9,370	9,420	9,470	9,520	9,570	9,620	9,670	9,720	9,770	9,810	9,860	9,910	9,960	10,000	3.6
3.8	9,520	9,570	9,630	9,680	9,740	9,790	9,840	9,900	9,950	10,000	10,060	10,110	10,160	10,210	10,260	10,310	10,360	10,410	10,470	10,520	10,570	3.8
4.0	10,030	10,090	10,150	10,210	10,260	10,320	10,380	10,430	10,490	10,540	10,600	10,650	10,710	10,760	10,820	10,870	10,930	10,980	11,030	11,090	11,140	4.0
4.2	10,550	10,610	10,670	10,730	10,790	10,850	10,910	10,970	11,030	11,090	11,140	11,200	11,260	11,320	11,370	11,430	11,490	11,540	11,600	11,660	11,710	4.2
4.4	11,070	11,130	11,190	11,260	11,320	11,380	11,450	11,510	11,570	11,630	11,690	11,760	11,820	11,880	11,940	12,000	12,060	12,120	12,170	12,230	12,290	4.4
4.6	11,600	11,670	11,740	11,800	11,870	11,940	12,000	12,070	12,130	12,200	12,260	12,330	12,390	12,450	12,520	12,580	12,640	12,710	12,770	12,830	12,890	4.6
4.8	12,150	12,230	12,300	12,370	12,440	12,510	12,580	12,640	12,710	12,780	12,850	12,920	12,980	13,050	13,120	13,180	13,250	13,310	13,380	13,440	13,510	4.8
5.0	12,720	12,790	12,870	12,940	13,010	13,090	13,160	13,230	13,300	13,370	13,440	13,510	13,590	13,650	13,720	13,790	13,860	13,930	14,000	14,070	14,130	5.0
5.2	13,290	13,370	13,450	13,520	13,600	13,680	13,750	13,830	13,900	13,980	14,050	14,130	14,200	14,270	14,350	14,420	14,490	14,560	14,630	14,700	14,780	5.2
5.4	13,880	13,960	14,040	14,120	14,200	14,280	14,360	14,440	14,520	14,600	14,680	14,750	14,830	14,910	14,980	15,060	15,130	15,210	15,280	15,360	15,430	5.4
5.6	14,480	14,570	14,650	14,740	14,820	14,900	14,990	15,070	15,150	15,230	15,320	15,400	15,480	15,560	15,640	15,720	15,790	15,870	15,950	16,030	16,110	5.6
5.8	15,100	15,190	15,280	15,370	15,460	15,540	15,630	15,720	15,800	15,890	15,970	16,060	16,140	16,230	16,310	16,390	16,470	16,560	16,640	16,720	16,800	5.8
6.0	15,740	15,830	15,930	16,020	16,110	16,200	16,290	16,380	16,470	16,560	16,650	16,740	16,830	16,910	17,000	17,090	17,170	17,260	17,340	17,430	17,510	6.0
6.2	16,390	16,490	16,590	16,680	16,780	16,870	16,970	17,060	17,160	17,250	17,340	17,440	17,530	17,620	17,710	17,800	17,890	17,980	18,070	18,160	18,240	6.2
6.4	17,060	17,160	17,260	17,360	17,460	17,560	17,660	17,760	17,850	17,950	18,050	18,140	18,240	18,340	18,430	18,520	18,620	18,710	18,800	18,900	18,990	6.4
6.6	17,730	17,840	17,940	18,050	18,150	18,250	18,360	18,460	18,560	18,660	18,760	18,860	18,960	19,060	19,160	19,260	19,360	19,450	19,550	19,650	19,740	6.6
6.8	18,410	18,520	18,630	18,740	18,850	18,960	19,060	19,170	19,280	19,380	19,490	19,590	19,690	19,800	19,900	20,000	20,100	20,210	20,310	20,410	20,510	6.8
7.0	19,090	19,210	19,320	19,440	19,550	19,660	19,770	19,880	19,990	20,100	20,210	20,320	20,430	20,540	20,640	20,750	20,850	20,960	21,060	21,170	21,270	7.0
7.2	19,780	19,900	20,010	20,130	20,250	20,370	20,480	20,600	20,710	20,820	20,940	21,050	21,160	21,270	21,380	21,490	21,600	21,710	21,820	21,930	22,040	7.2
7.4	20,450	20,580	20,700	20,820	20,940	21,060	21,180	21,300	21,420	21,540	21,650	21,770	21,890	22,000	22,120	22,230	22,350	22,460	22,570	22,680	22,790	7.4
7.6	21,110	21,240	21,370	21,490	21,620	21,750	21,870	21,990	22,120	22,240	22,360	22,480	22,600	22,720	22,840	22,960	23,070	23,190	23,310	23,420	23,540	7.6
7.8	21,750	21,880	22,010	22,140	22,270	22,400	22,530	22,660	22,790	22,910	23,040	23,160	23,280	23,410	23,530	23,650	23,770	23,890	24,020	24,130	24,250	7.8
8.0	22,340	22,480	22,610	22,750	22,880	23,010	23,140	23,280	23,410	23,540	23,660	23,790	23,920	24,050	24,170	24,300	24,420	24,550	24,670	24,800	24,920	8.0
8.2	22,900	23,040	23,180	23,310	23,450	23,590	23,720	23,860	23,990	24,120	24,260	24,390	24,520	24,650	24,780	24,910	25,040	25,160	25,290	25,420	25,540	8.2
8.4	23,420	23,560	23,710	23,850	23,990	24,130	24,270	24,400	24,540	24,680	24,810	24,950	25,080	25,220	25,350	25,480	25,610	25,740	25,870	26,000	26,130	8.4
8.6	23,920	24,070	24,210	24,360	24,500	24,640	24,780	24,920	25,060	25,200	25,340	25,470	25,610	25,750	25,880	26,010	26,150	26,280	26,410	26,540	26,680	8.6
8.8	24,390	24,530	24,670	24,820	24,960	25,100	25,240	25,380	25,520	25,660	25,800	25,940	26,070	26,210	26,340	26,480	26,610	26,750	26,880	27,010	27,140	8.8
9.0	24,760	24,900	25,050	25,190	25,330	25,470	25,610	25,750	25,890	26,030	26,170	26,300	26,440	26,580	26,710	26,850	26,980	27,110	27,240	27,380	27,510	9.0
9.2	25,110	25,260	25,400	25,540	25,680	25,820	25,960	26,100	26,240	26,380	26,520	26,650	26,790	26,920	27,060	27,190	27,320	27,460	27,590	27,720	27,850	9.2
9.4	25,460	25,600	25,740	25,880	26,030	26,170	26,310	26,440	26,580	26,720	26,860	26,990	27,130	27,260	27,390	27,530	27,660	27,790	27,920	28,050	28,180	9.4
9.6	25,780	25,930	26,070	26,210	26,350	26,490	26,630	26,760	26,900	27,040	27,170	27,310	27,440	27,580	27,710	27,840	27,970	28,100	28,240	28,370	28,490	9.6
9.8	26,080	26,220	26,360	26,500	26,640	26,780	26,920	27,050	27,190	27,330	27,460	27,590	27,730	27,860	27,990	28,120	28,250	28,380	28,510	28,640	28,770	9.8
10.0	26,340	26,480	26,620	26,760	26,900	27,030	27,170	27,310	27,440	27,570	27,710	27,840	27,970	28,110	28,240	28,370	28,500	28,630	28,750	28,880	29,010	10.0

HEADWATER 1020 to 1040
TAILWATER Up to 927.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1,640	1,650	1,650	1,660	1,670	1,670	1.0*
1.0	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	3,280	3,290	3,310	3,320	3,330	3,340	1.0
1.2	3,680	3,700	3,720	3,740	3,750	3,770	3,790	3,800	3,820	3,830	3,850	3,870	3,880	3,900	3,910	3,930	3,950	3,960	3,980	3,990	4,010	1.2
1.4	4,220	4,240	4,260	4,280	4,300	4,320	4,340	4,360	4,380	4,400	4,410	4,430	4,450	4,470	4,490	4,510	4,520	4,540	4,560	4,580	4,600	1.4
1.6	4,720	4,740	4,760	4,780	4,800	4,820	4,840	4,870	4,890	4,910	4,930	4,950	4,970	4,990	5,010	5,030	5,050	5,070	5,090	5,110	5,130	1.6
1.8	5,220	5,240	5,260	5,290	5,310	5,340	5,360	5,380	5,410	5,430	5,450	5,480	5,500	5,520	5,540	5,570	5,590	5,610	5,630	5,660	5,680	1.8
2.0	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	6,140	6,170	6,190	6,220	6,240	2.0
2.2	6,250	6,280	6,310	6,340	6,360	6,390	6,420	6,450	6,480	6,510	6,530	6,560	6,590	6,620	6,640	6,670	6,700	6,720	6,750	6,780	6,800	2.2
2.4	6,750	6,780	6,810	6,850	6,880	6,910	6,940	6,970	7,000	7,030	7,060	7,090	7,120	7,150	7,180	7,210	7,240	7,270	7,290	7,320	7,350	2.4
2.6	7,280	7,310	7,350	7,380	7,410	7,450	7,480	7,510	7,540	7,580	7,610	7,640	7,670	7,710	7,740	7,770	7,800	7,830	7,860	7,900	7,930	2.6
2.8	7,830	7,860	7,900	7,940	7,970	8,010	8,040	8,080	8,120	8,150	8,190	8,220	8,250	8,290	8,320	8,360	8,390	8,430	8,460	8,490	8,530	2.8
3.0	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	9,020	9,060	9,090	9,130	3.0
3.2	8,930	8,970	9,010	9,050	9,090	9,130	9,170	9,210	9,250	9,290	9,330	9,370	9,410	9,450	9,490	9,530	9,570	9,610	9,650	9,690	9,730	3.2
3.4	9,460	9,510	9,550	9,590	9,640	9,680	9,730	9,770	9,810	9,850	9,900	9,940	9,980	10,020	10,060	10,110	10,150	10,190	10,230	10,270	10,310	3.4
3.6	10,000	10,050	10,100	10,140	10,190	10,240	10,280	10,330	10,370	10,420	10,460	10,510	10,550	10,600	10,640	10,690	10,730	10,770	10,820	10,860	10,900	3.6
3.8	10,570	10,610	10,660	10,710	10,760	10,810	10,860	10,910	10,960	11,000	11,050	11,100	11,150	11,190	11,240	11,290	11,330	11,380	11,430	11,470	11,520	3.8
4.0	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	12,050	12,100	12,140	4.0
4.2	11,710	11,770	11,820	11,880	11,930	11,980	12,040	12,090	12,150	12,200	12,250	12,300	12,360	12,410	12,460	12,510	12,570	12,620	12,670	12,720	12,770	4.2
4.4	12,290	12,350	12,410	12,460	12,520	12,580	12,640	12,690	12,750	12,800	12,860	12,920	12,970	13,030	13,080	13,140	13,190	13,240	13,300	13,350	13,400	4.4
4.6	12,890	12,950	13,010	13,070	13,130	13,190	13,250	13,310	13,370	13,430	13,490	13,550	13,600	13,660	13,720	13,780	13,830	13,890	13,950	14,000	14,060	4.6
4.8	13,510	13,570	13,630	13,700	13,760	13,820	13,890	13,950	14,010	14,070	14,130	14,190	14,260	14,320	14,380	14,440	14,500	14,560	14,620	14,680	14,730	4.8
5.0	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	15,360	15,420	5.0
5.2	14,780	14,850	14,920	14,990	15,050	15,120	15,190	15,260	15,330	15,400	15,460	15,530	15,600	15,660	15,730	15,800	15,860	15,930	15,990	16,060	16,120	5.2
5.4	15,430	15,510	15,580	15,650	15,720	15,800	15,870	15,940	16,010	16,080	16,150	16,220	16,290	16,360	16,430	16,500	16,570	16,640	16,710	16,770	16,840	5.4
5.6	16,110	16,180	16,260	16,340	16,410	16,490	16,560	16,640	16,710	16,790	16,860	16,930	17,010	17,080	17,150	17,220	17,300	17,370	17,440	17,510	17,580	5.6
5.8	16,800	16,880	16,960	17,040	17,120	17,200	17,280	17,360	17,430	17,510	17,590	17,670	17,740	17,820	17,890	17,970	18,040	18,120	18,190	18,270	18,340	5.8
6.0	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	19,120	6.0
6.2	18,240	18,330	18,420	18,510	18,590	18,680	18,760	18,850	18,930	19,020	19,100	19,190	19,270	19,350	19,440	19,520	19,600	19,680	19,760	19,840	19,920	6.2
6.4	18,990	19,080	19,170	19,260	19,350	19,440	19,530	19,620	19,710	19,800	19,880	19,970	20,060	20,140	20,230	20,320	20,400	20,490	20,570	20,660	20,740	6.4
6.6	19,740	19,840	19,930	20,030	20,120	20,210	20,310	20,400	20,490	20,580	20,680	20,770	20,860	20,950	21,040	21,130	21,220	21,300	21,390	21,480	21,570	6.6
6.8	20,510	20,600	20,700	20,800	20,900	21,000	21,090	21,190	21,290	21,380	21,480	21,570	21,660	21,760	21,850	21,950	22,040	22,130	22,220	22,310	22,400	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,680	26,810	26,940	27,060	27,190	27,320	27,450	27,570	27,700	27,820	27,950	28,070	28,200	28,320	28,440	28,570	28,690	28,810	28,930	29,050	29,170	8.6
8.8	27,140	27,270	27,400	27,530	27,660	27,790	27,910	28,040	28,170	28,290	28,420	28,540	28,670	28,790	28,910	29,040	29,160	29,280	29,400	29,520	29,640	8.8
9.0	27,510	27,640	27,770	27,900	28,020	28,150	28,280	28,410	28,530	28,660	28,780	28,910	29,030	29,150	29,280	29,400	29,520	29,640	29,760	29,880	30,000	9.0
9.2	27,850	27,980	28,110	28,240	28,370	28,490	28,620	28,750	28,870	29,000	29,120	29,250	29,370	29,490	29,620	29,740	29,860	29,980	30,100	30,220	30,340	9.2
9.4	28,180	28,310	28,440	28,570	28,700	28,820	28,950	29,080	29,200	29,330	29,450	29,580	29,700	29,820	29,940	30,070	30,190	30,310	30,430	30,550	30,670	9.4
9.6	28,490	28,620	28,750	28,880	29,010	29,130	29,260	29,380	29,510	29,630	29,760	29,880	30,000	30,130	30,250	30,370	30,490	30,610	30,730	30,850	30,970	9.6
9.8	28,770	28,900	29,030	29,150	29,280	29,410	29,530	29,660	29,780	29,900	30,030	30,150	30,270	30,390	30,520	30,640	30,760	30,880	31,000	31,110	31,230	9.8
10.0	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	30,260	30,380	30,500	30,620	30,740	30,860	30,980	31,100	31,220	31,330	31,450	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1040 to 1060
TAILWATER Up to 927.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1,770	1,770	1,780	1,790	1,790	1,800	1.0*
1.0	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	3,530	3,550	3,560	3,570	3,580	3,590	1.0
1.2	4,010	4,020	4,040	4,060	4,070	4,090	4,100	4,120	4,130	4,150	4,160	4,180	4,190	4,210	4,220	4,240	4,250	4,270	4,280	4,290	4,310	1.2
1.4	4,600	4,610	4,630	4,650	4,670	4,680	4,700	4,720	4,740	4,750	4,770	4,790	4,810	4,820	4,840	4,860	4,870	4,890	4,910	4,920	4,940	1.4
1.6	5,130	5,150	5,170	5,190	5,210	5,230	5,250	5,270	5,290	5,310	5,330	5,350	5,370	5,390	5,400	5,420	5,440	5,460	5,480	5,500	5,520	1.6
1.8	5,680	5,700	5,720	5,740	5,770	5,790	5,810	5,830	5,850	5,870	5,900	5,920	5,940	5,960	5,980	6,000	6,020	6,040	6,060	6,080	6,100	1.8
2.0	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	6,620	6,640	6,670	6,690	6,710	2.0
2.2	6,800	6,830	6,860	6,880	6,910	6,940	6,960	6,990	7,010	7,040	7,070	7,090	7,120	7,140	7,170	7,190	7,220	7,240	7,270	7,290	7,320	2.2
2.4	7,350	7,380	7,410	7,440	7,470	7,500	7,520	7,550	7,580	7,610	7,640	7,660	7,690	7,720	7,750	7,770	7,800	7,830	7,850	7,880	7,910	2.4
2.6	7,930	7,960	7,990	8,020	8,050	8,080	8,110	8,140	8,170	8,200	8,230	8,260	8,290	8,320	8,350	8,380	8,410	8,440	8,470	8,500	8,530	2.6
2.8	8,530	8,560	8,590	8,630	8,660	8,690	8,730	8,760	8,790	8,820	8,860	8,890	8,920	8,950	8,980	9,020	9,050	9,080	9,110	9,140	9,170	2.8
3.0	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	9,720	9,760	9,790	9,820	3.0
3.2	9,730	9,760	9,800	9,840	9,880	9,920	9,950	9,990	10,030	10,060	10,100	10,140	10,180	10,210	10,250	10,280	10,320	10,360	10,390	10,430	10,460	3.2
3.4	10,310	10,350	10,390	10,430	10,470	10,510	10,550	10,590	10,630	10,670	10,710	10,750	10,790	10,830	10,870	10,910	10,940	10,980	11,020	11,060	11,100	3.4
3.6	10,900	10,950	10,990	11,030	11,070	11,120	11,160	11,200	11,240	11,290	11,330	11,370	11,410	11,450	11,490	11,530	11,570	11,610	11,650	11,690	11,730	3.6
3.8	11,520	11,560	11,610	11,650	11,700	11,740	11,790	11,830	11,880	11,920	11,960	12,010	12,050	12,100	12,140	12,180	12,230	12,270	12,310	12,350	12,400	3.8
4.0	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	12,980	13,030	13,070	4.0
4.2	12,770	12,820	12,870	12,920	12,970	13,020	13,070	13,120	13,170	13,220	13,270	13,320	13,370	13,410	13,460	13,510	13,560	13,610	13,650	13,700	13,750	4.2
4.4	13,400	13,460	13,510	13,560	13,620	13,670	13,720	13,770	13,820	13,880	13,930	13,980	14,030	14,080	14,130	14,180	14,230	14,280	14,330	14,380	14,430	4.4
4.6	14,060	14,120	14,170	14,230	14,280	14,340	14,390	14,450	14,500	14,560	14,610	14,660	14,720	14,770	14,820	14,880	14,930	14,980	15,040	15,090	15,140	4.6
4.8	14,730	14,790	14,850	14,910	14,970	15,030	15,080	15,140	15,200	15,250	15,310	15,370	15,420	15,480	15,540	15,590	15,650	15,700	15,760	15,810	15,870	4.8
5.0	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	16,550	16,610	5.0
5.2	16,120	16,190	16,250	16,320	16,380	16,440	16,510	16,570	16,630	16,690	16,760	16,820	16,880	16,940	17,000	17,070	17,130	17,190	17,250	17,310	17,370	5.2
5.4	16,840	16,910	16,980	17,040	17,110	17,180	17,240	17,310	17,370	17,440	17,510	17,570	17,630	17,700	17,760	17,830	17,890	17,950	18,020	18,080	18,140	5.4
5.6	17,580	17,650	17,720	17,790	17,860	17,930	18,000	18,070	18,140	18,210	18,270	18,340	18,410	18,480	18,540	18,610	18,680	18,740	18,810	18,880	18,940	5.6
5.8	18,340	18,420	18,490	18,560	18,640	18,710	18,780	18,850	18,920	19,000	19,070	19,140	19,210	19,280	19,350	19,420	19,490	19,560	19,630	19,700	19,760	5.8
6.0	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	20,610	6.0
6.2	19,920	20,000	20,080	20,160	20,240	20,320	20,400	20,480	20,560	20,640	20,710	20,790	20,870	20,940	21,020	21,100	21,170	21,250	21,320	21,400	21,470	6.2
6.4	20,740	20,820	20,910	20,990	21,070	21,160	21,240	21,320	21,400	21,480	21,560	21,640	21,720	21,800	21,880	21,960	22,040	22,120	22,200	22,280	22,360	6.4
6.6	21,570	21,660	21,740	21,830	21,910	22,000	22,090	22,170	22,260	22,340	22,420	22,510	22,590	22,680	22,760	22,840	22,920	23,010	23,090	23,170	23,250	6.6
6.8	22,400	22,500	22,590	22,680	22,770	22,850	22,940	23,030	23,120	23,210	23,300	23,380	23,470	23,560	23,640	23,730	23,810	23,900	23,990	24,070	24,150	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,170	29,290	29,410	29,520	29,640	29,760	29,880	29,990	30,110	30,220	30,340	30,450	30,570	30,680	30,790	30,910	31,020	31,130	31,240	31,350	31,460	8.6
8.8	29,640	29,760	29,880	30,000	30,120	30,230	30,350	30,470	30,580	30,700	30,820	30,930	31,050	31,160	31,270	31,390	31,500	31,610	31,720	31,840	31,950	8.8
9.0	30,000	30,120	30,240	30,360	30,480	30,600	30,710	30,830	30,950	31,060	31,180	31,290	31,410	31,520	31,640	31,750	31,860	31,970	32,090	32,200	32,310	9.0
9.2	30,340	30,460	30,580	30,700	30,820	30,930	31,050	31,170	31,280	31,400	31,520	31,630	31,740	31,860	31,970	32,090	32,200	32,310	32,420	32,530	32,650	9.2
9.4	30,670	30,790	30,910	31,020	31,140	31,260	31,380	31,490	31,610	31,720	31,840	31,950	32,070	32,180	32,290	32,410	32,520	32,630	32,740	32,860	32,970	9.4
9.6	30,970	31,090	31,210	31,320	31,440	31,560	31,670	31,790	31,910	32,020	32,130	32,250	32,360	32,480	32,590	32,700	32,810	32,930	33,040	33,150	33,260	9.6
9.8	31,230	31,350	31,470	31,580	31,700	31,820	31,930	32,050	32,160	32,280	32,390	32,510	32,620	32,730	32,850	32,960	33,070	33,180	33,290	33,400	33,510	9.8
10.0	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	32,600	32,720	32,830	32,940	33,050	33,170	33,280	33,390	33,500	33,610	33,720	10.0

HEADWATER 1060 to 1080
TAILWATER Up to 927.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1,200	1,210	1,210	1,220	1.0*
1.0	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	2,360	2,370	2,390	2,410	2,430	2,450	1.0
1.2	2,470	2,490	2,520	2,540	2,570	2,590	2,620	2,640	2,660	2,690	2,710	2,730	2,750	2,780	2,800	2,820	2,840	2,870	2,890	2,910	2,930	1.2
1.4	2,830	2,850	2,880	2,910	2,940	2,970	2,990	3,020	3,050	3,080	3,100	3,130	3,160	3,180	3,210	3,230	3,260	3,280	3,310	3,330	3,360	1.4
1.6	3,150	3,180	3,220	3,250	3,280	3,310	3,340	3,370	3,400	3,430	3,460	3,490	3,520	3,550	3,580	3,610	3,630	3,660	3,690	3,720	3,750	1.6
1.8	3,480	3,520	3,550	3,590	3,620	3,660	3,690	3,730	3,760	3,790	3,830	3,860	3,890	3,920	3,960	3,990	4,020	4,050	4,080	4,110	4,140	1.8
2.0	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	4,410	4,450	4,480	4,520	4,550	2.0
2.2	4,160	4,200	4,250	4,290	4,330	4,370	4,410	4,460	4,500	4,540	4,580	4,620	4,650	4,690	4,730	4,770	4,810	4,850	4,880	4,920	4,960	2.2
2.4	4,490	4,540	4,580	4,630	4,680	4,720	4,770	4,810	4,850	4,900	4,940	4,980	5,020	5,070	5,110	5,150	5,190	5,230	5,270	5,310	5,350	2.4
2.6	4,840	4,890	4,940	4,990	5,040	5,080	5,130	5,180	5,230	5,270	5,320	5,370	5,410	5,460	5,500	5,550	5,590	5,640	5,680	5,720	5,770	2.6
2.8	5,190	5,250	5,300	5,360	5,410	5,460	5,510	5,570	5,620	5,670	5,720	5,770	5,820	5,870	5,910	5,960	6,010	6,060	6,110	6,150	6,200	2.8
3.0	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	6,580	6,630	3.0
3.2	5,910	5,970	6,030	6,090	6,160	6,220	6,280	6,330	6,390	6,450	6,510	6,570	6,620	6,680	6,730	6,790	6,840	6,900	6,950	7,010	7,060	3.2
3.4	6,260	6,320	6,390	6,450	6,520	6,580	6,650	6,710	6,770	6,830	6,890	6,960	7,020	7,080	7,130	7,190	7,250	7,310	7,370	7,420	7,480	3.4
3.6	6,610	6,680	6,750	6,820	6,890	6,950	7,020	7,090	7,150	7,220	7,280	7,350	7,410	7,470	7,540	7,600	7,660	7,720	7,780	7,840	7,900	3.6
3.8	6,970	7,040	7,120	7,190	7,260	7,340	7,410	7,480	7,550	7,620	7,690	7,750	7,820	7,890	7,950	8,020	8,090	8,150	8,210	8,280	8,340	3.8
4.0	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	8,650	8,720	8,790	4.0
4.2	7,710	7,790	7,870	7,950	8,030	8,110	8,190	8,270	8,350	8,430	8,500	8,580	8,660	8,730	8,800	8,880	8,950	9,020	9,090	9,170	9,240	4.2
4.4	8,080	8,160	8,250	8,340	8,420	8,510	8,590	8,670	8,760	8,840	8,920	9,000	9,080	9,160	9,230	9,310	9,390	9,460	9,540	9,610	9,690	4.4
4.6	8,460	8,550	8,640	8,730	8,820	8,910	9,000	9,090	9,180	9,260	9,350	9,430	9,510	9,590	9,680	9,760	9,840	9,920	10,000	10,080	10,150	4.6
4.8	8,850	8,950	9,050	9,140	9,240	9,330	9,420	9,510	9,600	9,690	9,780	9,870	9,960	10,050	10,130	10,220	10,300	10,390	10,470	10,550	10,630	4.8
5.0	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	11,030	11,120	5.0
5.2	9,660	9,770	9,870	9,980	10,080	10,190	10,290	10,390	10,490	10,590	10,680	10,780	10,880	10,970	11,070	11,160	11,250	11,350	11,440	11,530	11,620	5.2
5.4	10,080	10,190	10,300	10,410	10,520	10,630	10,730	10,840	10,940	11,050	11,150	11,250	11,350	11,450	11,550	11,650	11,750	11,840	11,940	12,030	12,130	5.4
5.6	10,500	10,620	10,740	10,850	10,970	11,080	11,190	11,300	11,410	11,520	11,630	11,730	11,840	11,940	12,050	12,150	12,250	12,350	12,450	12,550	12,650	5.6
5.8	10,940	11,070	11,190	11,310	11,430	11,540	11,660	11,780	11,890	12,000	12,120	12,230	12,340	12,450	12,560	12,660	12,770	12,880	12,980	13,080	13,190	5.8
6.0	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	13,740	6.0
6.2	11,850	11,990	12,120	12,250	12,380	12,510	12,640	12,760	12,890	13,010	13,130	13,260	13,380	13,500	13,610	13,730	13,850	13,960	14,080	14,190	14,300	6.2
6.4	12,320	12,460	12,600	12,730	12,870	13,010	13,140	13,270	13,400	13,530	13,660	13,780	13,910	14,030	14,160	14,280	14,400	14,520	14,640	14,760	14,880	6.4
6.6	12,790	12,940	13,080	13,230	13,370	13,510	13,650	13,780	13,920	14,050	14,190	14,320	14,450	14,580	14,710	14,840	14,960	15,090	15,210	15,340	15,460	6.6
6.8	13,270	13,420	13,570	13,720	13,870	14,010	14,160	14,300	14,440	14,580	14,720	14,860	15,000	15,130	15,270	15,400	15,530	15,660	15,790	15,920	16,050	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,110	17,310	17,510	17,710	17,900	18,090	18,290	18,470	18,660	18,850	19,030	19,210	19,390	19,570	19,750	19,920	20,100	20,270	20,440	20,610	20,780	8.6
8.8	17,500	17,710	17,910	18,100	18,300	18,490	18,680	18,870	19,060	19,240	19,430	19,610	19,790	19,970	20,140	20,320	20,490	20,670	20,840	21,010	21,180	8.8
9.0	17,840	18,040	18,240	18,440	18,630	18,820	19,010	19,200	19,390	19,570	19,760	19,940	20,120	20,290	20,470	20,640	20,820	20,990	21,160	21,330	21,500	9.0
9.2	18,180	18,380	18,570	18,770	18,960	19,150	19,340	19,520	19,710	19,890	20,070	20,250	20,430	20,610	20,780	20,960	21,130	21,300	21,470	21,640	21,800	9.2
9.4	18,510	18,700	18,900	19,090	19,280	19,470	19,660	19,840	20,020	20,210	20,390	20,560	20,740	20,920	21,090	21,260	21,430	21,600	21,770	21,940	22,110	9.4
9.6	18,830	19,020	19,210	19,400	19,590	19,780	19,960	20,150	20,330	20,510	20,690	20,860	21,040	21,210	21,390	21,560	21,730	21,900	22,060	22,230	22,390	9.6
9.8	19,130	19,320	19,510	19,700	19,880	20,070	20,250	20,430	20,610	20,790	20,970	21,140	21,320	21,490	21,660	21,830	22,000	22,160	22,330	22,500	22,660	9.8
10.0	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	21,740	21,910	22,070	22,240	22,410	22,570	22,730	22,890	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 980 to 1000
TAILWATER 928 to 929.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1,330	1,340	1,350	1,360	1,370	1,370	1,380	1,390	1.0*
1.0	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	2,670	2,680	2,700	2,710	2,730	2,750	2,760	2,780	1.0
1.2	2,930	2,950	2,970	2,990	3,010	3,030	3,060	3,080	3,100	3,120	3,140	3,160	3,180	3,200	3,210	3,230	3,250	3,270	3,290	3,310	3,330	1.2
1.4	3,360	3,380	3,410	3,430	3,450	3,480	3,500	3,520	3,550	3,570	3,590	3,620	3,640	3,660	3,680	3,710	3,730	3,750	3,770	3,790	3,820	1.4
1.6	3,750	3,770	3,800	3,830	3,850	3,880	3,910	3,930	3,960	3,980	4,010	4,040	4,060	4,090	4,110	4,140	4,160	4,190	4,210	4,230	4,260	1.6
1.8	4,140	4,170	4,200	4,230	4,260	4,290	4,320	4,350	4,380	4,410	4,430	4,460	4,490	4,520	4,550	4,570	4,600	4,630	4,660	4,680	4,710	1.8
2.0	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	5,000	5,030	5,060	5,090	5,120	5,150	5,180	2.0
2.2	4,960	4,990	5,030	5,060	5,100	5,140	5,170	5,210	5,240	5,270	5,310	5,340	5,380	5,410	5,440	5,480	5,510	5,540	5,580	5,610	5,640	2.2
2.4	5,350	5,390	5,430	5,470	5,510	5,550	5,580	5,620	5,660	5,700	5,730	5,770	5,810	5,840	5,880	5,920	5,950	5,990	6,020	6,060	6,090	2.4
2.6	5,770	5,810	5,850	5,890	5,930	5,980	6,020	6,060	6,100	6,140	6,180	6,220	6,260	6,300	6,340	6,380	6,410	6,450	6,490	6,530	6,570	2.6
2.8	6,200	6,240	6,290	6,330	6,380	6,420	6,470	6,510	6,560	6,600	6,640	6,690	6,730	6,770	6,810	6,850	6,900	6,940	6,980	7,020	7,060	2.8
3.0	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	7,340	7,380	7,430	7,470	7,510	7,560	3.0
3.2	7,060	7,110	7,160	7,220	7,270	7,320	7,370	7,420	7,470	7,520	7,570	7,620	7,670	7,720	7,760	7,810	7,860	7,910	7,950	8,000	8,050	3.2
3.4	7,480	7,540	7,590	7,650	7,700	7,750	7,810	7,860	7,920	7,970	8,020	8,070	8,130	8,180	8,230	8,280	8,330	8,380	8,430	8,480	8,530	3.4
3.6	7,900	7,960	8,020	8,080	8,140	8,200	8,250	8,310	8,370	8,420	8,480	8,530	8,590	8,640	8,700	8,750	8,800	8,860	8,910	8,960	9,010	3.6
3.8	8,340	8,400	8,470	8,530	8,590	8,650	8,710	8,770	8,830	8,890	8,950	9,010	9,070	9,120	9,180	9,240	9,300	9,350	9,410	9,460	9,520	3.8
4.0	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,920	9,970	10,030	4.0
4.2	9,240	9,310	9,370	9,440	9,510	9,580	9,650	9,710	9,780	9,850	9,910	9,980	10,040	10,110	10,170	10,230	10,300	10,360	10,420	10,480	10,550	4.2
4.4	9,690	9,760	9,830	9,910	9,980	10,050	10,120	10,190	10,260	10,330	10,400	10,470	10,540	10,600	10,670	10,740	10,800	10,870	10,940	11,000	11,070	4.4
4.6	10,150	10,230	10,310	10,380	10,460	10,530	10,610	10,680	10,760	10,830	10,900	10,970	11,050	11,120	11,190	11,260	11,330	11,400	11,470	11,530	11,600	4.6
4.8	10,630	10,710	10,790	10,870	10,950	11,030	11,110	11,190	11,270	11,340	11,420	11,490	11,570	11,640	11,720	11,790	11,870	11,940	12,010	12,080	12,150	4.8
5.0	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	12,490	12,570	12,640	12,720	5.0
5.2	11,620	11,710	11,800	11,880	11,970	12,060	12,140	12,230	12,310	12,400	12,480	12,570	12,650	12,730	12,810	12,890	12,970	13,050	13,130	13,210	13,290	5.2
5.4	12,130	12,220	12,310	12,410	12,500	12,590	12,680	12,770	12,860	12,940	13,030	13,120	13,210	13,290	13,380	13,460	13,550	13,630	13,710	13,800	13,880	5.4
5.6	12,650	12,750	12,840	12,940	13,040	13,130	13,230	13,320	13,410	13,500	13,600	13,690	13,780	13,870	13,960	14,050	14,130	14,220	14,310	14,400	14,480	5.6
5.8	13,190	13,290	13,390	13,490	13,590	13,690	13,790	13,890	13,980	14,080	14,180	14,270	14,370	14,460	14,550	14,650	14,740	14,830	14,920	15,010	15,100	5.8
6.0	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	15,550	15,650	15,740	6.0
6.2	14,300	14,410	14,530	14,640	14,740	14,850	14,960	15,070	15,170	15,280	15,380	15,490	15,590	15,690	15,790	15,900	16,000	16,100	16,200	16,290	16,390	6.2
6.4	14,880	14,990	15,110	15,220	15,340	15,450	15,560	15,670	15,790	15,900	16,000	16,110	16,220	16,330	16,430	16,540	16,640	16,750	16,850	16,950	17,060	6.4
6.6	15,460	15,580	15,700	15,820	15,940	16,060	16,170	16,290	16,410	16,520	16,630	16,750	16,860	16,970	17,080	17,190	17,300	17,410	17,520	17,620	17,730	6.6
6.8	16,050	16,170	16,300	16,420	16,550	16,670	16,790	16,910	17,030	17,150	17,270	17,390	17,500	17,620	17,740	17,850	17,960	18,080	18,190	18,300	18,410	6.8
7.0	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	18,980	19,090	7.0
7.2	17,220	17,360	17,500	17,630	17,760	17,900	18,030	18,160	18,290	18,420	18,540	18,670	18,800	18,920	19,050	19,170	19,290	19,420	19,540	19,660	19,780	7.2
7.4	17,800	17,950	18,090	18,230	18,360	18,500	18,640	18,770	18,910	19,040	19,170	19,310	19,440	19,570	19,700	19,820	19,950	20,080	20,200	20,330	20,450	7.4
7.6	18,370	18,520	18,670	18,810	18,950	19,100	19,240	19,380	19,520	19,650	19,790	19,930	20,060	20,200	20,330	20,460	20,600	20,730	20,860	20,990	21,110	7.6
7.8	18,920	19,070	19,220	19,370	19,520	19,670	19,810	19,960	20,100	20,240	20,390	20,530	20,670	20,800	20,940	21,080	21,220	21,350	21,490	21,620	21,750	7.8
8.0	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	22,340	8.0
8.2	19,900	20,060	20,220	20,380	20,540	20,690	20,850	21,000	21,150	21,300	21,450	21,600	21,750	21,900	22,040	22,190	22,330	22,470	22,620	22,760	22,900	8.2
8.4	20,350	20,510	20,680	20,840	21,000	21,160	21,320	21,470	21,630	21,780	21,940	22,090	22,240	22,390	22,540	22,690	22,840	22,990	23,130	23,280	23,420	8.4
8.6	20,780	20,950	21,110	21,280	21,440	21,600	21,760	21,920	22,080	22,240	22,390	22,550	22,700	22,850	23,000	23,160	23,310	23,450	23,600	23,750	23,900	8.6
8.8	21,180	21,340	21,510	21,670	21,840	22,000	22,160	22,320	22,480	22,630	22,790	22,950	23,100	23,250	23,410	23,560	23,710	23,860	24,000	24,150	24,300	8.8
9.0	21,500	21,660	21,830	21,990	22,150	22,320	22,480	22,640	22,790	22,950	23,110	23,260	23,420	23,570	23,720	23,870	24,020	24,170	24,320	24,470	24,610	9.0
9.2	21,800	21,970	22,130	22,300	22,460	22,620	22,780	22,940	23,100	23,250	23,410	23,560	23,720	23,870	24,020	24,170	24,320	24,470	24,620	24,760	24,910	9.2
9.4	22,110	22,270	22,430	22,600	22,760	22,920	23,080	23,240	23,390	23,550	23,700	23,860	24,010	24,160	24,310	24,460	24,610	24,760	24,910	25,050	25,200	9.4
9.6	22,390	22,560	22,720	22,880	23,040	23,200	23,360	23,520	23,670	23,830	23,980	24,130	24,290	24,440	24,590	24,740	24,880	25,030	25,180	25,320	25,470	9.6
9.8	22,660	22,820	22,980	23,140	23,300	23,460	23,620	23,770	23,930	24,080	24,230	24,380	24,540	24,690	24,830	24,980	25,130	25,280	25,420	25,570	25,710	9.8
10.0	22,890	23,050	23,210	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	24,600	24,750	24,900	25,050	25,200	25,340	25,490	25,630	25,780	25,920	10.0

HEADWATER 1000 to 1020
TAILWATER 928 to 929.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1,390	1,400	1,400	1,410	1,420	1,430	1,440	1,440	1,450	1,460	1,470	1,470	1,480	1,490	1,490	1,500	1,510	1,520	1,520	1,530	1,540	1.0*
1.0	2,780	2,790	2,810	2,820	2,840	2,860	2,870	2,890	2,900	2,920	2,930	2,940	2,960	2,970	2,990	3,000	3,020	3,030	3,050	3,060	3,070	1.0
1.2	3,330	3,350	3,370	3,380	3,400	3,420	3,440	3,460	3,480	3,490	3,510	3,530	3,550	3,560	3,580	3,600	3,620	3,630	3,650	3,670	3,680	1.2
1.4	3,820	3,840	3,860	3,880	3,900	3,920	3,940	3,960	3,980	4,000	4,020	4,040	4,070	4,090	4,110	4,130	4,150	4,170	4,180	4,200	4,220	1.4
1.6	4,260	4,280	4,310	4,330	4,350	4,380	4,400	4,420	4,450	4,470	4,490	4,520	4,540	4,560	4,580	4,610	4,630	4,650	4,670	4,690	4,720	1.6
1.8	4,710	4,740	4,760	4,790	4,820	4,840	4,870	4,890	4,920	4,940	4,970	4,990	5,020	5,040	5,070	5,090	5,120	5,140	5,170	5,190	5,220	1.8
2.0	5,180	5,210	5,230	5,260	5,290	5,320	5,350	5,380	5,410	5,430	5,460	5,490	5,520	5,540	5,570	5,600	5,630	5,650	5,680	5,710	5,730	2.0
2.2	5,640	5,670	5,700	5,740	5,770	5,800	5,830	5,860	5,890	5,920	5,950	5,980	6,010	6,040	6,070	6,100	6,130	6,160	6,190	6,220	6,250	2.2
2.4	6,090	6,130	6,160	6,200	6,230	6,260	6,300	6,330	6,360	6,400	6,430	6,460	6,500	6,530	6,560	6,590	6,620	6,660	6,690	6,720	6,750	2.4
2.6	6,570	6,600	6,640	6,680	6,710	6,750	6,790	6,820	6,860	6,900	6,930	6,970	7,000	7,040	7,070	7,110	7,140	7,180	7,210	7,240	7,280	2.6
2.8	7,060	7,100	7,140	7,180	7,220	7,260	7,300	7,340	7,380	7,420	7,450	7,490	7,530	7,570	7,610	7,640	7,680	7,720	7,750	7,790	7,830	2.8
3.0	7,560	7,600	7,640	7,690	7,730	7,770	7,810	7,850	7,900	7,940	7,980	8,020	8,060	8,100	8,140	8,180	8,220	8,260	8,300	8,340	8,380	3.0
3.2	8,050	8,090	8,140	8,180	8,230	8,280	8,320	8,360	8,410	8,450	8,500	8,540	8,580	8,630	8,670	8,710	8,760	8,800	8,840	8,880	8,930	3.2
3.4	8,530	8,580	8,630	8,680	8,720	8,770	8,820	8,870	8,910	8,960	9,010	9,050	9,100	9,150	9,190	9,240	9,280	9,330	9,370	9,420	9,460	3.4
3.6	9,010	9,070	9,120	9,170	9,220	9,270	9,320	9,370	9,420	9,470	9,520	9,570	9,620	9,670	9,720	9,770	9,810	9,860	9,910	9,960	10,000	3.6
3.8	9,520	9,570	9,630	9,680	9,740	9,790	9,840	9,900	9,950	10,000	10,060	10,110	10,160	10,210	10,260	10,310	10,360	10,410	10,470	10,520	10,570	3.8
4.0	10,030	10,090	10,150	10,210	10,260	10,320	10,380	10,430	10,490	10,540	10,600	10,650	10,710	10,760	10,820	10,870	10,930	10,980	11,030	11,090	11,140	4.0
4.2	10,550	10,610	10,670	10,730	10,790	10,850	10,910	10,970	11,030	11,090	11,140	11,200	11,260	11,320	11,370	11,430	11,490	11,540	11,600	11,660	11,710	4.2
4.4	11,070	11,130	11,190	11,260	11,320	11,380	11,450	11,510	11,570	11,630	11,690	11,760	11,820	11,880	11,940	12,000	12,060	12,120	12,170	12,230	12,290	4.4
4.6	11,600	11,670	11,740	11,800	11,870	11,940	12,000	12,070	12,130	12,200	12,260	12,330	12,390	12,450	12,520	12,580	12,640	12,710	12,770	12,830	12,890	4.6
4.8	12,150	12,230	12,300	12,370	12,440	12,510	12,580	12,640	12,710	12,780	12,850	12,920	12,980	13,050	13,120	13,180	13,250	13,310	13,380	13,440	13,510	4.8
5.0	12,720	12,790	12,870	12,940	13,010	13,090	13,160	13,230	13,300	13,370	13,440	13,510	13,590	13,650	13,720	13,790	13,860	13,930	14,000	14,070	14,130	5.0
5.2	13,290	13,370	13,450	13,520	13,600	13,680	13,750	13,830	13,900	13,980	14,050	14,130	14,200	14,270	14,350	14,420	14,490	14,560	14,630	14,700	14,780	5.2
5.4	13,880	13,960	14,040	14,120	14,200	14,280	14,360	14,440	14,520	14,600	14,680	14,750	14,830	14,910	14,980	15,060	15,130	15,210	15,280	15,360	15,430	5.4
5.6	14,480	14,570	14,650	14,740	14,820	14,900	14,990	15,070	15,150	15,230	15,320	15,400	15,480	15,560	15,640	15,720	15,790	15,870	15,950	16,030	16,110	5.6
5.8	15,100	15,190	15,280	15,370	15,460	15,540	15,630	15,720	15,800	15,890	15,970	16,060	16,140	16,230	16,310	16,390	16,470	16,560	16,640	16,720	16,800	5.8
6.0	15,740	15,830	15,930	16,020	16,110	16,200	16,290	16,380	16,470	16,560	16,650	16,740	16,830	16,910	17,000	17,090	17,170	17,260	17,340	17,430	17,510	6.0
6.2	16,390	16,490	16,590	16,680	16,780	16,870	16,970	17,060	17,160	17,250	17,340	17,440	17,530	17,620	17,710	17,800	17,890	17,980	18,070	18,160	18,240	6.2
6.4	17,060	17,160	17,260	17,360	17,460	17,560	17,660	17,760	17,850	17,950	18,050	18,140	18,240	18,340	18,430	18,520	18,620	18,710	18,800	18,900	18,990	6.4
6.6	17,730	17,840	17,940	18,050	18,150	18,250	18,360	18,460	18,560	18,660	18,760	18,860	18,960	19,060	19,160	19,260	19,360	19,450	19,550	19,650	19,740	6.6
6.8	18,410	18,520	18,630	18,740	18,850	18,960	19,060	19,170	19,280	19,380	19,490	19,590	19,690	19,800	19,900	20,000	20,100	20,210	20,310	20,410	20,510	6.8
7.0	19,090	19,210	19,320	19,440	19,550	19,660	19,770	19,880	19,990	20,100	20,210	20,320	20,430	20,540	20,640	20,750	20,850	20,960	21,060	21,170	21,270	7.0
7.2	19,780	19,900	20,010	20,130	20,250	20,370	20,480	20,600	20,710	20,820	20,940	21,050	21,160	21,270	21,380	21,490	21,600	21,710	21,820	21,930	22,040	7.2
7.4	20,450	20,580	20,700	20,820	20,940	21,060	21,180	21,300	21,420	21,540	21,650	21,770	21,890	22,000	22,120	22,230	22,350	22,460	22,570	22,680	22,790	7.4
7.6	21,110	21,240	21,370	21,490	21,620	21,750	21,870	21,990	22,120	22,240	22,360	22,480	22,600	22,720	22,840	22,960	23,070	23,190	23,310	23,420	23,540	7.6
7.8	21,750	21,880	22,010	22,140	22,270	22,400	22,530	22,660	22,790	22,910	23,040	23,160	23,280	23,410	23,530	23,650	23,770	23,890	24,020	24,130	24,250	7.8
8.0	22,340	22,480	22,610	22,750	22,880	23,010	23,140	23,280	23,410	23,540	23,660	23,790	23,920	24,050	24,170	24,300	24,420	24,550	24,670	24,800	24,920	8.0
8.2	22,900	23,040	23,180	23,310	23,450	23,590	23,720	23,860	23,990	24,120	24,260	24,390	24,520	24,650	24,780	24,910	25,040	25,160	25,290	25,420	25,540	8.2
8.4	23,420	23,560	23,710	23,850	23,990	24,130	24,270	24,400	24,540	24,680	24,810	24,950	25,080	25,220	25,350	25,480	25,610	25,740	25,870	26,000	26,130	8.4
8.6	23,900	24,040	24,180	24,330	24,470	24,610	24,750	24,890	25,030	25,170	25,310	25,450	25,580	25,720	25,850	25,990	26,120	26,250	26,390	26,520	26,650	8.6
8.8	24,300	24,440	24,590	24,730	24,880	25,020	25,160	25,300	25,440	25,580	25,720	25,860	25,990	26,130	26,260	26,400	26,530	26,670	26,800	26,930	27,060	8.8
9.0	24,610	24,760	24,900	25,050	25,190	25,330	25,470	25,610	25,750	25,890	26,030	26,170	26,300	26,440	26,580	26,710	26,850	26,980	27,110	27,240	27,380	9.0
9.2	24,910	25,050	25,200	25,340	25,480	25,630	25,770	25,910	26,050	26,190	26,320	26,460	26,600	26,730	26,870	27,000	27,140	27,270	27,400	27,540	27,670	9.2
9.4	25,200	25,340	25,490	25,630	25,770	25,910	26,050	26,190	26,330	26,470	26,610	26,750	26,880	27,020	27,150	27,290	27,420	27,550	27,690	27,820	27,950	9.4
9.6	25,470	25,610	25,760	25,900	26,040	26,180	26,320	26,460	26,600	26,740	26,870	27,010	27,150	27,280	27,420	27,550	27,680	27,820	27,950	28,080	28,210	9.6
9.8	25,710	25,850	26,000	26,140	26,280	26,420	26,560	26,700	26,830	26,970	27,110	27,240	27,380	27,510	27,650	27,780	27,910	28,040	28,180	28,310	28,440	9.8
10.0	25,920	26,060	26,200	26,340	26,480	26,620	26,760	26,900	27,030	27,170	27,310	27,440	27,570	27,710	27,840	27,970	28,110	28,240	28,370	28,500	28,630	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1020 to 1040
TAILWATER 928 to 929.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1,640	1,650	1,650	1,660	1,670	1,670	1.0*
1.0	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	3,280	3,290	3,310	3,320	3,330	3,340	1.0
1.2	3,680	3,700	3,720	3,740	3,750	3,770	3,790	3,800	3,820	3,830	3,850	3,870	3,880	3,900	3,910	3,930	3,950	3,960	3,980	3,990	4,010	1.2
1.4	4,220	4,240	4,260	4,280	4,300	4,320	4,340	4,360	4,380	4,400	4,410	4,430	4,450	4,470	4,490	4,510	4,520	4,540	4,560	4,580	4,600	1.4
1.6	4,720	4,740	4,760	4,780	4,800	4,820	4,840	4,870	4,890	4,910	4,930	4,950	4,970	4,990	5,010	5,030	5,050	5,070	5,090	5,110	5,130	1.6
1.8	5,220	5,240	5,260	5,290	5,310	5,340	5,360	5,380	5,410	5,430	5,450	5,480	5,500	5,520	5,540	5,570	5,590	5,610	5,630	5,660	5,680	1.8
2.0	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	6,140	6,170	6,190	6,220	6,240	2.0
2.2	6,250	6,280	6,310	6,340	6,360	6,390	6,420	6,450	6,480	6,510	6,530	6,560	6,590	6,620	6,640	6,670	6,700	6,720	6,750	6,780	6,800	2.2
2.4	6,750	6,780	6,810	6,850	6,880	6,910	6,940	6,970	7,000	7,030	7,060	7,090	7,120	7,150	7,180	7,210	7,240	7,270	7,290	7,320	7,350	2.4
2.6	7,280	7,310	7,350	7,380	7,410	7,450	7,480	7,510	7,540	7,580	7,610	7,640	7,670	7,710	7,740	7,770	7,800	7,830	7,860	7,900	7,930	2.6
2.8	7,830	7,860	7,900	7,940	7,970	8,010	8,040	8,080	8,120	8,150	8,190	8,220	8,250	8,290	8,320	8,360	8,390	8,430	8,460	8,490	8,530	2.8
3.0	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	9,020	9,060	9,090	9,130	3.0
3.2	8,930	8,970	9,010	9,050	9,090	9,130	9,170	9,210	9,250	9,290	9,330	9,370	9,410	9,450	9,490	9,530	9,570	9,610	9,650	9,690	9,730	3.2
3.4	9,460	9,510	9,550	9,590	9,640	9,680	9,730	9,770	9,810	9,850	9,900	9,940	9,980	10,020	10,060	10,110	10,150	10,190	10,230	10,270	10,310	3.4
3.6	10,000	10,050	10,100	10,140	10,190	10,240	10,280	10,330	10,370	10,420	10,460	10,510	10,550	10,600	10,640	10,690	10,730	10,770	10,820	10,860	10,900	3.6
3.8	10,570	10,610	10,660	10,710	10,760	10,810	10,860	10,910	10,960	11,000	11,050	11,100	11,150	11,190	11,240	11,290	11,330	11,380	11,430	11,470	11,520	3.8
4.0	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	12,050	12,100	12,140	4.0
4.2	11,710	11,770	11,820	11,880	11,930	11,980	12,040	12,090	12,150	12,200	12,250	12,300	12,360	12,410	12,460	12,510	12,570	12,620	12,670	12,720	12,770	4.2
4.4	12,290	12,350	12,410	12,460	12,520	12,580	12,640	12,690	12,750	12,800	12,860	12,920	12,970	13,030	13,080	13,140	13,190	13,240	13,300	13,350	13,400	4.4
4.6	12,890	12,950	13,010	13,070	13,130	13,190	13,250	13,310	13,370	13,430	13,490	13,550	13,600	13,660	13,720	13,780	13,830	13,890	13,950	14,000	14,060	4.6
4.8	13,510	13,570	13,630	13,700	13,760	13,820	13,890	13,950	14,010	14,070	14,130	14,190	14,260	14,320	14,380	14,440	14,500	14,560	14,620	14,680	14,730	4.8
5.0	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	15,360	15,420	5.0
5.2	14,780	14,850	14,920	14,990	15,050	15,120	15,190	15,260	15,330	15,400	15,460	15,530	15,600	15,660	15,730	15,800	15,860	15,930	15,990	16,060	16,120	5.2
5.4	15,430	15,510	15,580	15,650	15,720	15,800	15,870	15,940	16,010	16,080	16,150	16,220	16,290	16,360	16,430	16,500	16,570	16,640	16,710	16,770	16,840	5.4
5.6	16,110	16,180	16,260	16,340	16,410	16,490	16,560	16,640	16,710	16,790	16,860	16,930	17,010	17,080	17,150	17,220	17,300	17,370	17,440	17,510	17,580	5.6
5.8	16,800	16,880	16,960	17,040	17,120	17,200	17,280	17,360	17,430	17,510	17,590	17,670	17,740	17,820	17,890	17,970	18,040	18,120	18,190	18,270	18,340	5.8
6.0	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	19,120	6.0
6.2	18,240	18,330	18,420	18,510	18,590	18,680	18,760	18,850	18,930	19,020	19,100	19,190	19,270	19,350	19,440	19,520	19,600	19,680	19,760	19,840	19,920	6.2
6.4	18,990	19,080	19,170	19,260	19,350	19,440	19,530	19,620	19,710	19,800	19,880	19,970	20,060	20,140	20,230	20,320	20,400	20,490	20,570	20,660	20,740	6.4
6.6	19,740	19,840	19,930	20,030	20,120	20,210	20,310	20,400	20,490	20,580	20,680	20,770	20,860	20,950	21,040	21,130	21,220	21,300	21,390	21,480	21,570	6.6
6.8	20,510	20,600	20,700	20,800	20,900	21,000	21,090	21,190	21,290	21,380	21,480	21,570	21,660	21,760	21,850	21,950	22,040	22,130	22,220	22,310	22,400	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,650	26,780	26,910	27,040	27,170	27,290	27,420	27,550	27,670	27,800	27,920	28,050	28,170	28,300	28,420	28,540	28,660	28,780	28,900	29,020	29,140	8.6
8.8	27,060	27,190	27,320	27,450	27,580	27,710	27,840	27,970	28,090	28,220	28,340	28,470	28,590	28,720	28,840	28,960	29,090	29,210	29,330	29,450	29,570	8.8
9.0	27,380	27,510	27,640	27,770	27,900	28,020	28,150	28,280	28,410	28,530	28,660	28,780	28,910	29,030	29,150	29,280	29,400	29,520	29,640	29,760	29,880	9.0
9.2	27,670	27,800	27,930	28,060	28,190	28,320	28,440	28,570	28,700	28,820	28,950	29,070	29,200	29,320	29,450	29,570	29,690	29,810	29,930	30,050	30,180	9.2
9.4	27,950	28,080	28,210	28,340	28,470	28,600	28,720	28,850	28,980	29,100	29,230	29,350	29,480	29,600	29,720	29,850	29,970	30,090	30,210	30,330	30,450	9.4
9.6	28,210	28,340	28,470	28,600	28,730	28,850	28,980	29,110	29,230	29,360	29,480	29,610	29,730	29,860	29,980	30,100	30,220	30,350	30,470	30,590	30,710	9.6
9.8	28,440	28,570	28,700	28,820	28,950	29,080	29,210	29,330	29,460	29,580	29,710	29,830	29,950	30,080	30,200	30,320	30,440	30,560	30,680	30,800	30,920	9.8
10.0	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	30,260	30,380	30,500	30,620	30,740	30,860	30,980	31,100	10.0

HEADWATER 1040 to 1060
TAILWATER 928 to 929.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1,770	1,770	1,780	1,790	1,790	1,800	1.0*
1.0	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	3,530	3,550	3,560	3,570	3,580	3,590	1.0
1.2	4,010	4,020	4,040	4,060	4,070	4,090	4,100	4,120	4,130	4,150	4,160	4,180	4,190	4,210	4,220	4,240	4,250	4,270	4,280	4,290	4,310	1.2
1.4	4,600	4,610	4,630	4,650	4,670	4,680	4,700	4,720	4,740	4,750	4,770	4,790	4,810	4,820	4,840	4,860	4,870	4,890	4,910	4,920	4,940	1.4
1.6	5,130	5,150	5,170	5,190	5,210	5,230	5,250	5,270	5,290	5,310	5,330	5,350	5,370	5,390	5,400	5,420	5,440	5,460	5,480	5,500	5,520	1.6
1.8	5,680	5,700	5,720	5,740	5,770	5,790	5,810	5,830	5,850	5,870	5,900	5,920	5,940	5,960	5,980	6,000	6,020	6,040	6,060	6,080	6,100	1.8
2.0	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	6,620	6,640	6,670	6,690	6,710	2.0
2.2	6,800	6,830	6,860	6,880	6,910	6,940	6,960	6,990	7,010	7,040	7,070	7,090	7,120	7,140	7,170	7,190	7,220	7,240	7,270	7,290	7,320	2.2
2.4	7,350	7,380	7,410	7,440	7,470	7,500	7,520	7,550	7,580	7,610	7,640	7,660	7,690	7,720	7,750	7,770	7,800	7,830	7,850	7,880	7,910	2.4
2.6	7,930	7,960	7,990	8,020	8,050	8,080	8,110	8,140	8,170	8,200	8,230	8,260	8,290	8,320	8,350	8,380	8,410	8,440	8,470	8,500	8,530	2.6
2.8	8,530	8,560	8,590	8,630	8,660	8,690	8,730	8,760	8,790	8,820	8,860	8,890	8,920	8,950	8,980	9,020	9,050	9,080	9,110	9,140	9,170	2.8
3.0	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	9,720	9,760	9,790	9,820	3.0
3.2	9,730	9,760	9,800	9,840	9,880	9,920	9,950	9,990	10,030	10,060	10,100	10,140	10,180	10,210	10,250	10,280	10,320	10,360	10,390	10,430	10,460	3.2
3.4	10,310	10,350	10,390	10,430	10,470	10,510	10,550	10,590	10,630	10,670	10,710	10,750	10,790	10,830	10,870	10,910	10,940	10,980	11,020	11,060	11,100	3.4
3.6	10,900	10,950	10,990	11,030	11,070	11,120	11,160	11,200	11,240	11,290	11,330	11,370	11,410	11,450	11,490	11,530	11,570	11,610	11,650	11,690	11,730	3.6
3.8	11,520	11,560	11,610	11,650	11,700	11,740	11,790	11,830	11,880	11,920	11,960	12,010	12,050	12,100	12,140	12,180	12,230	12,270	12,310	12,350	12,400	3.8
4.0	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	12,980	13,030	13,070	4.0
4.2	12,770	12,820	12,870	12,920	12,970	13,020	13,070	13,120	13,170	13,220	13,270	13,320	13,370	13,410	13,460	13,510	13,560	13,610	13,650	13,700	13,750	4.2
4.4	13,400	13,460	13,510	13,560	13,620	13,670	13,720	13,770	13,820	13,880	13,930	13,980	14,030	14,080	14,130	14,180	14,230	14,280	14,330	14,380	14,430	4.4
4.6	14,060	14,120	14,170	14,230	14,280	14,340	14,390	14,450	14,500	14,560	14,610	14,660	14,720	14,770	14,820	14,880	14,930	14,980	15,040	15,090	15,140	4.6
4.8	14,730	14,790	14,850	14,910	14,970	15,030	15,080	15,140	15,200	15,250	15,310	15,370	15,420	15,480	15,540	15,590	15,650	15,700	15,760	15,810	15,870	4.8
5.0	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	16,550	16,610	5.0
5.2	16,120	16,190	16,250	16,320	16,380	16,440	16,510	16,570	16,630	16,690	16,760	16,820	16,880	16,940	17,000	17,070	17,130	17,190	17,250	17,310	17,370	5.2
5.4	16,840	16,910	16,980	17,040	17,110	17,180	17,240	17,310	17,370	17,440	17,510	17,570	17,630	17,700	17,760	17,830	17,890	17,950	18,020	18,080	18,140	5.4
5.6	17,580	17,650	17,720	17,790	17,860	17,930	18,000	18,070	18,140	18,210	18,270	18,340	18,410	18,480	18,540	18,610	18,680	18,740	18,810	18,880	18,940	5.6
5.8	18,340	18,420	18,490	18,560	18,640	18,710	18,780	18,850	18,920	19,000	19,070	19,140	19,210	19,280	19,350	19,420	19,490	19,560	19,630	19,700	19,760	5.8
6.0	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	20,610	6.0
6.2	19,920	20,000	20,080	20,160	20,240	20,320	20,400	20,480	20,560	20,640	20,710	20,790	20,870	20,940	21,020	21,100	21,170	21,250	21,320	21,400	21,470	6.2
6.4	20,740	20,820	20,910	20,990	21,070	21,160	21,240	21,320	21,400	21,480	21,560	21,640	21,720	21,800	21,880	21,960	22,040	22,120	22,200	22,280	22,360	6.4
6.6	21,570	21,660	21,740	21,830	21,910	22,000	22,090	22,170	22,260	22,340	22,420	22,510	22,590	22,680	22,760	22,840	22,920	23,010	23,090	23,170	23,250	6.6
6.8	22,400	22,500	22,590	22,680	22,770	22,850	22,940	23,030	23,120	23,210	23,300	23,380	23,470	23,560	23,640	23,730	23,810	23,900	23,990	24,070	24,150	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,140	29,260	29,380	29,500	29,620	29,740	29,850	29,970	30,080	30,200	30,310	30,430	30,540	30,660	30,770	30,880	31,000	31,110	31,220	31,330	31,440	8.6
8.8	29,570	29,690	29,810	29,930	30,050	30,160	30,280	30,400	30,520	30,630	30,750	30,860	30,980	31,090	31,210	31,320	31,430	31,540	31,660	31,770	31,880	8.8
9.0	29,880	30,000	30,120	30,240	30,360	30,480	30,600	30,710	30,830	30,950	31,060	31,180	31,290	31,410	31,520	31,640	31,750	31,860	31,970	32,090	32,200	9.0
9.2	30,180	30,300	30,410	30,530	30,650	30,770	30,890	31,000	31,120	31,240	31,350	31,470	31,580	31,700	31,810	31,930	32,040	32,150	32,270	32,380	32,490	9.2
9.4	30,450	30,570	30,690	30,810	30,930	31,050	31,170	31,280	31,400	31,510	31,630	31,750	31,860	31,980	32,090	32,200	32,320	32,430	32,540	32,650	32,770	9.4
9.6	30,710	30,830	30,950	31,060	31,180	31,300	31,420	31,530	31,650	31,770	31,880	32,000	32,110	32,230	32,340	32,450	32,570	32,680	32,790	32,900	33,020	9.6
9.8	30,920	31,040	31,160	31,280	31,400	31,510	31,630	31,750	31,860	31,980	32,090	32,210	32,320	32,440	32,550	32,660	32,780	32,890	33,000	33,110	33,220	9.8
10.0	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	32,600	32,720	32,830	32,940	33,050	33,170	33,280	33,390	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1060 to 1080
TAILWATER 928 to 929.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1,200	1,210	1,210	1,220	1.0*
1.0	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	2,360	2,370	2,390	2,410	2,430	2,450	1.0
1.2	2,470	2,490	2,520	2,540	2,570	2,590	2,620	2,640	2,660	2,690	2,710	2,730	2,750	2,780	2,800	2,820	2,840	2,870	2,890	2,910	2,930	1.2
1.4	2,830	2,850	2,880	2,910	2,940	2,970	2,990	3,020	3,050	3,080	3,100	3,130	3,160	3,180	3,210	3,230	3,260	3,280	3,310	3,330	3,360	1.4
1.6	3,150	3,180	3,220	3,250	3,280	3,310	3,340	3,370	3,400	3,430	3,460	3,490	3,520	3,550	3,580	3,610	3,630	3,660	3,690	3,720	3,750	1.6
1.8	3,480	3,520	3,550	3,590	3,620	3,660	3,690	3,730	3,760	3,790	3,830	3,860	3,890	3,920	3,960	3,990	4,020	4,050	4,080	4,110	4,140	1.8
2.0	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	4,410	4,450	4,480	4,520	4,550	2.0
2.2	4,160	4,200	4,250	4,290	4,330	4,370	4,410	4,460	4,500	4,540	4,580	4,620	4,650	4,690	4,730	4,770	4,810	4,850	4,880	4,920	4,960	2.2
2.4	4,490	4,540	4,580	4,630	4,680	4,720	4,770	4,810	4,850	4,900	4,940	4,980	5,020	5,070	5,110	5,150	5,190	5,230	5,270	5,310	5,350	2.4
2.6	4,840	4,890	4,940	4,990	5,040	5,080	5,130	5,180	5,230	5,270	5,320	5,370	5,410	5,460	5,500	5,550	5,590	5,640	5,680	5,720	5,770	2.6
2.8	5,190	5,250	5,300	5,360	5,410	5,460	5,510	5,570	5,620	5,670	5,720	5,770	5,820	5,870	5,910	5,960	6,010	6,060	6,110	6,150	6,200	2.8
3.0	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	6,580	6,630	3.0
3.2	5,910	5,970	6,030	6,090	6,160	6,220	6,280	6,330	6,390	6,450	6,510	6,570	6,620	6,680	6,730	6,790	6,840	6,900	6,950	7,010	7,060	3.2
3.4	6,260	6,320	6,390	6,450	6,520	6,580	6,650	6,710	6,770	6,830	6,890	6,960	7,020	7,080	7,130	7,190	7,250	7,310	7,370	7,420	7,480	3.4
3.6	6,610	6,680	6,750	6,820	6,890	6,950	7,020	7,090	7,150	7,220	7,280	7,350	7,410	7,470	7,540	7,600	7,660	7,720	7,780	7,840	7,900	3.6
3.8	6,970	7,040	7,120	7,190	7,260	7,340	7,410	7,480	7,550	7,620	7,690	7,750	7,820	7,890	7,950	8,020	8,090	8,150	8,210	8,280	8,340	3.8
4.0	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	8,650	8,720	8,790	4.0
4.2	7,710	7,790	7,870	7,950	8,030	8,110	8,190	8,270	8,350	8,430	8,500	8,580	8,660	8,730	8,800	8,880	8,950	9,020	9,090	9,170	9,240	4.2
4.4	8,080	8,160	8,250	8,340	8,420	8,510	8,590	8,670	8,760	8,840	8,920	9,000	9,080	9,160	9,230	9,310	9,390	9,460	9,540	9,610	9,690	4.4
4.6	8,460	8,550	8,640	8,730	8,820	8,910	9,000	9,090	9,180	9,260	9,350	9,430	9,510	9,590	9,680	9,760	9,840	9,920	10,000	10,080	10,150	4.6
4.8	8,850	8,950	9,050	9,140	9,240	9,330	9,420	9,510	9,600	9,690	9,780	9,870	9,960	10,050	10,130	10,220	10,300	10,390	10,470	10,550	10,630	4.8
5.0	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	11,030	11,120	5.0
5.2	9,660	9,770	9,870	9,980	10,080	10,190	10,290	10,390	10,490	10,590	10,680	10,780	10,880	10,970	11,070	11,160	11,250	11,350	11,440	11,530	11,620	5.2
5.4	10,080	10,190	10,300	10,410	10,520	10,630	10,730	10,840	10,940	11,050	11,150	11,250	11,350	11,450	11,550	11,650	11,750	11,840	11,940	12,030	12,130	5.4
5.6	10,500	10,620	10,740	10,850	10,970	11,080	11,190	11,300	11,410	11,520	11,630	11,730	11,840	11,940	12,050	12,150	12,250	12,350	12,450	12,550	12,650	5.6
5.8	10,940	11,070	11,190	11,310	11,430	11,540	11,660	11,780	11,890	12,000	12,120	12,230	12,340	12,450	12,560	12,660	12,770	12,880	12,980	13,080	13,190	5.8
6.0	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	13,740	6.0
6.2	11,850	11,990	12,120	12,250	12,380	12,510	12,640	12,760	12,890	13,010	13,130	13,260	13,380	13,500	13,610	13,730	13,850	13,960	14,080	14,190	14,300	6.2
6.4	12,320	12,460	12,600	12,730	12,870	13,010	13,140	13,270	13,400	13,530	13,660	13,780	13,910	14,030	14,160	14,280	14,400	14,520	14,640	14,760	14,880	6.4
6.6	12,790	12,940	13,080	13,230	13,370	13,510	13,650	13,780	13,920	14,050	14,190	14,320	14,450	14,580	14,710	14,840	14,960	15,090	15,210	15,340	15,460	6.6
6.8	13,270	13,420	13,570	13,720	13,870	14,010	14,160	14,300	14,440	14,580	14,720	14,860	15,000	15,130	15,270	15,400	15,530	15,660	15,790	15,920	16,050	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,080	17,280	17,480	17,680	17,870	18,070	18,260	18,450	18,640	18,820	19,010	19,190	19,370	19,550	19,730	19,900	20,080	20,250	20,420	20,590	20,760	8.6
8.8	17,420	17,630	17,830	18,020	18,220	18,410	18,610	18,800	18,980	19,170	19,350	19,540	19,720	19,900	20,070	20,250	20,420	20,600	20,770	20,940	21,110	8.8
9.0	17,710	17,910	18,110	18,310	18,500	18,700	18,890	19,080	19,260	19,450	19,630	19,820	20,000	20,170	20,350	20,530	20,700	20,870	21,050	21,220	21,380	9.0
9.2	17,990	18,190	18,390	18,580	18,780	18,970	19,160	19,350	19,540	19,720	19,900	20,080	20,260	20,440	20,620	20,790	20,970	21,140	21,310	21,480	21,650	9.2
9.4	18,270	18,470	18,660	18,860	19,050	19,240	19,430	19,620	19,800	19,990	20,170	20,350	20,530	20,710	20,880	21,060	21,230	21,400	21,570	21,740	21,910	9.4
9.6	18,540	18,730	18,930	19,120	19,310	19,500	19,690	19,880	20,060	20,240	20,420	20,600	20,780	20,960	21,130	21,310	21,480	21,650	21,820	21,990	22,150	9.6
9.8	18,790	18,980	19,180	19,370	19,560	19,750	19,930	20,120	20,300	20,480	20,660	20,840	21,010	21,190	21,360	21,530	21,700	21,870	22,040	22,210	22,370	9.8
10.0	19,020	19,210	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	21,740	21,910	22,070	22,240	22,410	22,570	10.0

HEADWATER 980 to 1000
TAILWATER 930 to 931.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1,330	1,340	1,350	1,360	1,370	1,370	1,380	1,390	1.0*
1.0	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	2,670	2,680	2,700	2,710	2,730	2,750	2,760	2,780	1.0
1.2	2,930	2,950	2,970	2,990	3,010	3,030	3,060	3,080	3,100	3,120	3,140	3,160	3,180	3,200	3,210	3,230	3,250	3,270	3,290	3,310	3,330	1.2
1.4	3,360	3,380	3,410	3,430	3,450	3,480	3,500	3,520	3,550	3,570	3,590	3,620	3,640	3,660	3,680	3,710	3,730	3,750	3,770	3,790	3,820	1.4
1.6	3,750	3,770	3,800	3,830	3,850	3,880	3,910	3,930	3,960	3,980	4,010	4,040	4,060	4,090	4,110	4,140	4,160	4,190	4,210	4,230	4,260	1.6
1.8	4,140	4,170	4,200	4,230	4,260	4,290	4,320	4,350	4,380	4,410	4,430	4,460	4,490	4,520	4,550	4,570	4,600	4,630	4,660	4,680	4,710	1.8
2.0	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	5,000	5,030	5,060	5,090	5,120	5,150	5,180	2.0
2.2	4,960	4,990	5,030	5,060	5,100	5,140	5,170	5,210	5,240	5,270	5,310	5,340	5,380	5,410	5,440	5,480	5,510	5,540	5,580	5,610	5,640	2.2
2.4	5,350	5,390	5,430	5,470	5,510	5,550	5,580	5,620	5,660	5,700	5,730	5,770	5,810	5,840	5,880	5,920	5,950	5,990	6,020	6,060	6,090	2.4
2.6	5,770	5,810	5,850	5,890	5,930	5,980	6,020	6,060	6,100	6,140	6,180	6,220	6,260	6,300	6,340	6,380	6,410	6,450	6,490	6,530	6,570	2.6
2.8	6,200	6,240	6,290	6,330	6,380	6,420	6,470	6,510	6,560	6,600	6,640	6,690	6,730	6,770	6,810	6,850	6,900	6,940	6,980	7,020	7,060	2.8
3.0	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	7,340	7,380	7,430	7,470	7,510	7,560	3.0
3.2	7,060	7,110	7,160	7,220	7,270	7,320	7,370	7,420	7,470	7,520	7,570	7,620	7,670	7,720	7,760	7,810	7,860	7,910	7,950	8,000	8,050	3.2
3.4	7,480	7,540	7,590	7,650	7,700	7,750	7,810	7,860	7,920	7,970	8,020	8,070	8,130	8,180	8,230	8,280	8,330	8,380	8,430	8,480	8,530	3.4
3.6	7,900	7,960	8,020	8,080	8,140	8,200	8,250	8,310	8,370	8,420	8,480	8,530	8,590	8,640	8,700	8,750	8,800	8,860	8,910	8,960	9,010	3.6
3.8	8,340	8,400	8,470	8,530	8,590	8,650	8,710	8,770	8,830	8,890	8,950	9,010	9,070	9,120	9,180	9,240	9,300	9,350	9,410	9,460	9,520	3.8
4.0	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,920	9,970	10,030	4.0
4.2	9,240	9,310	9,370	9,440	9,510	9,580	9,650	9,710	9,780	9,850	9,910	9,980	10,040	10,110	10,170	10,230	10,300	10,360	10,420	10,480	10,550	4.2
4.4	9,690	9,760	9,830	9,910	9,980	10,050	10,120	10,190	10,260	10,330	10,400	10,470	10,540	10,600	10,670	10,740	10,800	10,870	10,940	11,000	11,070	4.4
4.6	10,150	10,230	10,310	10,380	10,460	10,530	10,610	10,680	10,760	10,830	10,900	10,970	11,050	11,120	11,190	11,260	11,330	11,400	11,470	11,530	11,600	4.6
4.8	10,630	10,710	10,790	10,870	10,950	11,030	11,110	11,190	11,270	11,340	11,420	11,490	11,570	11,640	11,720	11,790	11,870	11,940	12,010	12,080	12,150	4.8
5.0	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	12,490	12,570	12,640	12,720	5.0
5.2	11,620	11,710	11,800	11,880	11,970	12,060	12,140	12,230	12,310	12,400	12,480	12,570	12,650	12,730	12,810	12,890	12,970	13,050	13,130	13,210	13,290	5.2
5.4	12,130	12,220	12,310	12,410	12,500	12,590	12,680	12,770	12,860	12,940	13,030	13,120	13,210	13,290	13,380	13,460	13,550	13,630	13,710	13,800	13,880	5.4
5.6	12,650	12,750	12,840	12,940	13,040	13,130	13,230	13,320	13,410	13,500	13,600	13,690	13,780	13,870	13,960	14,050	14,130	14,220	14,310	14,400	14,480	5.6
5.8	13,190	13,290	13,390	13,490	13,590	13,690	13,790	13,890	13,980	14,080	14,180	14,270	14,370	14,460	14,550	14,650	14,740	14,830	14,920	15,010	15,100	5.8
6.0	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	15,550	15,650	15,740	6.0
6.2	14,300	14,410	14,530	14,640	14,740	14,850	14,960	15,070	15,170	15,280	15,380	15,490	15,590	15,690	15,790	15,900	16,000	16,100	16,200	16,290	16,390	6.2
6.4	14,880	14,990	15,110	15,220	15,340	15,450	15,560	15,670	15,790	15,900	16,000	16,110	16,220	16,330	16,430	16,540	16,640	16,750	16,850	16,950	17,060	6.4
6.6	15,460	15,580	15,700	15,820	15,940	16,060	16,170	16,290	16,410	16,520	16,630	16,750	16,860	16,970	17,080	17,190	17,300	17,410	17,520	17,620	17,730	6.6
6.8	16,050	16,170	16,300	16,420	16,550	16,670	16,790	16,910	17,030	17,150	17,270	17,390	17,500	17,620	17,740	17,850	17,960	18,080	18,190	18,300	18,410	6.8
7.0	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	18,980	19,090	7.0
7.2	17,220	17,360	17,500	17,630	17,760	17,900	18,030	18,160	18,290	18,420	18,540	18,670	18,800	18,920	19,050	19,170	19,290	19,420	19,540	19,660	19,780	7.2
7.4	17,800	17,950	18,090	18,230	18,360	18,500	18,640	18,770	18,910	19,040	19,170	19,310	19,440	19,570	19,700	19,820	19,950	20,080	20,200	20,330	20,450	7.4
7.6	18,370	18,520	18,670	18,810	18,950	19,100	19,240	19,380	19,520	19,650	19,790	19,930	20,060	20,200	20,330	20,460	20,600	20,730	20,860	20,990	21,110	7.6
7.8	18,920	19,070	19,220	19,370	19,520	19,670	19,810	19,960	20,100	20,240	20,390	20,530	20,670	20,800	20,940	21,080	21,220	21,350	21,490	21,620	21,750	7.8
8.0	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	22,340	8.0
8.2	19,900	20,060	20,220	20,380	20,540	20,690	20,850	21,000	21,150	21,300	21,450	21,600	21,750	21,900	22,040	22,190	22,330	22,470	22,620	22,760	22,900	8.2
8.4	20,350	20,510	20,680	20,840	21,000	21,160	21,320	21,470	21,630	21,780	21,940	22,090	22,240	22,390	22,540	22,690	22,840	22,990	23,130	23,280	23,420	8.4
8.6	20,760	20,920	21,090	21,250	21,420	21,580	21,740	21,900	22,060	22,210	22,370	22,530	22,680	22,830	22,980	23,140	23,290	23,430	23,580	23,730	23,880	8.6
8.8	21,110	21,280	21,440	21,610	21,770	21,930	22,090	22,250	22,410	22,570	22,730	22,880	23,040	23,190	23,340	23,500	23,650	23,800	23,940	24,090	24,240	8.8
9.0	21,380	21,550	21,720	21,880	22,050	22,210	22,370	22,530	22,690	22,850	23,000	23,160	23,310	23,470	23,620	23,770	23,920	24,070	24,220	24,370	24,510	9.0
9.2	21,650	21,820	21,980	22,150	22,310	22,470	22,630	22,790	22,950	23,110	23,260	23,420	23,570	23,730	23,880	24,030	24,180	24,330	24,480	24,630	24,770	9.2
9.4	21,910	22,070	22,240	22,400	22,560	22,730	22,890	23,050	23,200	23,360	23,520	23,670	23,830	23,980	24,130	24,280	24,430	24,580	24,730	24,880	25,020	9.4
9.6	22,150	22,320	22,480	22,640	22,810	22,970	23,130	23,290	23,440	23,600	23,750	23,910	24,060	24,210	24,370	24,520	24,670	24,820	24,960	25,110	25,260	9.6
9.8	22,370	22,540	22,700	22,860	23,020	23,180	23,340	23,500	23,660	23,810	23,970	24,120	24,270	24,420	24,580	24,730	24,870	25,020	25,170	25,320	25,460	9.8
10.0	22,570	22,730	22,890	23,050	23,210	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	24,600	24,750	24,900	25,050	25,200	25,340	25,490	25,630	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1000 to 1020
TAILWATER 930 to 931.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1,390	1,400	1,400	1,410	1,420	1,430	1,440	1,440	1,450	1,460	1,470	1,470	1,480	1,490	1,490	1,500	1,510	1,520	1,520	1,530	1,540	1.0*
1.0	2,780	2,790	2,810	2,820	2,840	2,860	2,870	2,890	2,900	2,920	2,930	2,940	2,960	2,970	2,990	3,000	3,020	3,030	3,050	3,060	3,070	1.0
1.2	3,330	3,350	3,370	3,380	3,400	3,420	3,440	3,460	3,480	3,490	3,510	3,530	3,550	3,560	3,580	3,600	3,620	3,630	3,650	3,670	3,680	1.2
1.4	3,820	3,840	3,860	3,880	3,900	3,920	3,940	3,960	3,980	4,000	4,020	4,040	4,070	4,090	4,110	4,130	4,150	4,170	4,180	4,200	4,220	1.4
1.6	4,260	4,280	4,310	4,330	4,350	4,380	4,400	4,420	4,450	4,470	4,490	4,520	4,540	4,560	4,580	4,610	4,630	4,650	4,670	4,690	4,720	1.6
1.8	4,710	4,740	4,760	4,790	4,820	4,840	4,870	4,890	4,920	4,940	4,970	4,990	5,020	5,040	5,070	5,090	5,120	5,140	5,170	5,190	5,220	1.8
2.0	5,180	5,210	5,230	5,260	5,290	5,320	5,350	5,380	5,410	5,430	5,460	5,490	5,520	5,540	5,570	5,600	5,630	5,650	5,680	5,710	5,730	2.0
2.2	5,640	5,670	5,700	5,740	5,770	5,800	5,830	5,860	5,890	5,920	5,950	5,980	6,010	6,040	6,070	6,100	6,130	6,160	6,190	6,220	6,250	2.2
2.4	6,090	6,130	6,160	6,200	6,230	6,260	6,300	6,330	6,360	6,400	6,430	6,460	6,500	6,530	6,560	6,590	6,620	6,660	6,690	6,720	6,750	2.4
2.6	6,570	6,600	6,640	6,680	6,710	6,750	6,790	6,820	6,860	6,900	6,930	6,970	7,000	7,040	7,070	7,110	7,140	7,180	7,210	7,240	7,280	2.6
2.8	7,060	7,100	7,140	7,180	7,220	7,260	7,300	7,340	7,380	7,420	7,450	7,490	7,530	7,570	7,610	7,640	7,680	7,720	7,750	7,790	7,830	2.8
3.0	7,560	7,600	7,640	7,690	7,730	7,770	7,810	7,850	7,900	7,940	7,980	8,020	8,060	8,100	8,140	8,180	8,220	8,260	8,300	8,340	8,380	3.0
3.2	8,050	8,090	8,140	8,180	8,230	8,280	8,320	8,360	8,410	8,450	8,500	8,540	8,580	8,630	8,670	8,710	8,760	8,800	8,840	8,880	8,930	3.2
3.4	8,530	8,580	8,630	8,680	8,720	8,770	8,820	8,870	8,910	8,960	9,010	9,050	9,100	9,150	9,190	9,240	9,280	9,330	9,370	9,420	9,460	3.4
3.6	9,010	9,070	9,120	9,170	9,220	9,270	9,320	9,370	9,420	9,470	9,520	9,570	9,620	9,670	9,720	9,770	9,810	9,860	9,910	9,960	10,000	3.6
3.8	9,520	9,570	9,630	9,680	9,740	9,790	9,840	9,900	9,950	10,000	10,060	10,110	10,160	10,210	10,260	10,310	10,360	10,410	10,470	10,520	10,570	3.8
4.0	10,030	10,090	10,150	10,210	10,260	10,320	10,380	10,430	10,490	10,540	10,600	10,650	10,710	10,760	10,820	10,870	10,930	10,980	11,030	11,090	11,140	4.0
4.2	10,550	10,610	10,670	10,730	10,790	10,850	10,910	10,970	11,030	11,090	11,140	11,200	11,260	11,320	11,370	11,430	11,490	11,540	11,600	11,660	11,710	4.2
4.4	11,070	11,130	11,190	11,260	11,320	11,380	11,450	11,510	11,570	11,630	11,690	11,760	11,820	11,880	11,940	12,000	12,060	12,120	12,170	12,230	12,290	4.4
4.6	11,600	11,670	11,740	11,800	11,870	11,940	12,000	12,070	12,130	12,200	12,260	12,330	12,390	12,450	12,520	12,580	12,640	12,710	12,770	12,830	12,890	4.6
4.8	12,150	12,230	12,300	12,370	12,440	12,510	12,580	12,640	12,710	12,780	12,850	12,920	12,980	13,050	13,120	13,180	13,250	13,310	13,380	13,440	13,510	4.8
5.0	12,720	12,790	12,870	12,940	13,010	13,090	13,160	13,230	13,300	13,370	13,440	13,510	13,590	13,650	13,720	13,790	13,860	13,930	14,000	14,070	14,130	5.0
5.2	13,290	13,370	13,450	13,520	13,600	13,680	13,750	13,830	13,900	13,980	14,050	14,130	14,200	14,270	14,350	14,420	14,490	14,560	14,630	14,700	14,780	5.2
5.4	13,880	13,960	14,040	14,120	14,200	14,280	14,360	14,440	14,520	14,600	14,680	14,750	14,830	14,910	14,980	15,060	15,130	15,210	15,280	15,360	15,430	5.4
5.6	14,480	14,570	14,650	14,740	14,820	14,900	14,990	15,070	15,150	15,230	15,320	15,400	15,480	15,560	15,640	15,720	15,790	15,870	15,950	16,030	16,110	5.6
5.8	15,100	15,190	15,280	15,370	15,460	15,540	15,630	15,720	15,800	15,890	15,970	16,060	16,140	16,230	16,310	16,390	16,470	16,560	16,640	16,720	16,800	5.8
6.0	15,740	15,830	15,930	16,020	16,110	16,200	16,290	16,380	16,470	16,560	16,650	16,740	16,830	16,910	17,000	17,090	17,170	17,260	17,340	17,430	17,510	6.0
6.2	16,390	16,490	16,590	16,680	16,780	16,870	16,970	17,060	17,160	17,250	17,340	17,440	17,530	17,620	17,710	17,800	17,890	17,980	18,070	18,160	18,240	6.2
6.4	17,060	17,160	17,260	17,360	17,460	17,560	17,660	17,760	17,850	17,950	18,050	18,140	18,240	18,340	18,430	18,520	18,620	18,710	18,800	18,900	18,990	6.4
6.6	17,730	17,840	17,940	18,050	18,150	18,250	18,360	18,460	18,560	18,660	18,760	18,860	18,960	19,060	19,160	19,260	19,360	19,450	19,550	19,650	19,740	6.6
6.8	18,410	18,520	18,630	18,740	18,850	18,960	19,060	19,170	19,280	19,380	19,490	19,590	19,690	19,800	19,900	20,000	20,100	20,210	20,310	20,410	20,510	6.8
7.0	19,090	19,210	19,320	19,440	19,550	19,660	19,770	19,880	19,990	20,100	20,210	20,320	20,430	20,540	20,640	20,750	20,850	20,960	21,060	21,170	21,270	7.0
7.2	19,780	19,900	20,010	20,130	20,250	20,370	20,480	20,600	20,710	20,820	20,940	21,050	21,160	21,270	21,380	21,490	21,600	21,710	21,820	21,930	22,040	7.2
7.4	20,450	20,580	20,700	20,820	20,940	21,060	21,180	21,300	21,420	21,540	21,650	21,770	21,890	22,000	22,120	22,230	22,350	22,460	22,570	22,680	22,790	7.4
7.6	21,110	21,240	21,370	21,490	21,620	21,750	21,870	21,990	22,120	22,240	22,360	22,480	22,600	22,720	22,840	22,960	23,070	23,190	23,310	23,420	23,540	7.6
7.8	21,750	21,880	22,010	22,140	22,270	22,400	22,530	22,660	22,790	22,910	23,040	23,160	23,280	23,410	23,530	23,650	23,770	23,890	24,020	24,130	24,250	7.8
8.0	22,340	22,480	22,610	22,750	22,880	23,010	23,140	23,280	23,410	23,540	23,660	23,790	23,920	24,050	24,170	24,300	24,420	24,550	24,670	24,800	24,920	8.0
8.2	22,900	23,040	23,180	23,310	23,450	23,590	23,720	23,860	23,990	24,120	24,260	24,390	24,520	24,650	24,780	24,910	25,040	25,160	25,290	25,420	25,540	8.2
8.4	23,420	23,560	23,710	23,850	23,990	24,130	24,270	24,400	24,540	24,680	24,810	24,950	25,080	25,220	25,350	25,480	25,610	25,740	25,870	26,000	26,130	8.4
8.6	23,880	24,020	24,170	24,310	24,450	24,590	24,730	24,880	25,010	25,150	25,290	25,430	25,570	25,700	25,840	25,970	26,100	26,240	26,370	26,500	26,630	8.6
8.8	24,240	24,390	24,530	24,670	24,820	24,960	25,100	25,240	25,380	25,520	25,660	25,800	25,940	26,070	26,210	26,340	26,480	26,610	26,750	26,880	27,010	8.8
9.0	24,510	24,660	24,810	24,950	25,090	25,240	25,380	25,520	25,660	25,800	25,940	26,080	26,210	26,350	26,490	26,620	26,760	26,890	27,020	27,160	27,290	9.0
9.2	24,770	24,920	25,060	25,210	25,350	25,490	25,640	25,780	25,920	26,060	26,200	26,330	26,470	26,610	26,740	26,880	27,010	27,150	27,280	27,410	27,550	9.2
9.4	25,020	25,170	25,310	25,460	25,600	25,740	25,880	26,030	26,170	26,310	26,440	26,580	26,720	26,860	26,990	27,130	27,260	27,390	27,530	27,660	27,790	9.4
9.6	25,260	25,400	25,550	25,690	25,830	25,970	26,120	26,260	26,400	26,530	26,670	26,810	26,950	27,080	27,220	27,350	27,490	27,620	27,750	27,890	28,020	9.6
9.8	25,460	25,610	25,750	25,890	26,030	26,180	26,320	26,460	26,590	26,730	26,870	27,010	27,140	27,280	27,410	27,550	27,680	27,820	27,950	28,080	28,210	9.8
10.0	25,630	25,780	25,920	26,060	26,200	26,340	26,480	26,620	26,760	26,900	27,030	27,170	27,310	27,440	27,570	27,710	27,840	27,970	28,110	28,240	28,370	10.0

HEADWATER 1020 to 1040
TAILWATER 930 to 931.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1,640	1,650	1,650	1,660	1,670	1,670	1.0*
1.0	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	3,280	3,290	3,310	3,320	3,330	3,340	1.0
1.2	3,680	3,700	3,720	3,740	3,750	3,770	3,790	3,800	3,820	3,830	3,850	3,870	3,880	3,900	3,910	3,930	3,950	3,960	3,980	3,990	4,010	1.2
1.4	4,220	4,240	4,260	4,280	4,300	4,320	4,340	4,360	4,380	4,400	4,410	4,430	4,450	4,470	4,490	4,510	4,520	4,540	4,560	4,580	4,600	1.4
1.6	4,720	4,740	4,760	4,780	4,800	4,820	4,840	4,870	4,890	4,910	4,930	4,950	4,970	4,990	5,010	5,030	5,050	5,070	5,090	5,110	5,130	1.6
1.8	5,220	5,240	5,260	5,290	5,310	5,340	5,360	5,380	5,410	5,430	5,450	5,480	5,500	5,520	5,540	5,570	5,590	5,610	5,630	5,660	5,680	1.8
2.0	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	6,140	6,170	6,190	6,220	6,240	2.0
2.2	6,250	6,280	6,310	6,340	6,360	6,390	6,420	6,450	6,480	6,510	6,530	6,560	6,590	6,620	6,640	6,670	6,700	6,720	6,750	6,780	6,800	2.2
2.4	6,750	6,780	6,810	6,850	6,880	6,910	6,940	6,970	7,000	7,030	7,060	7,090	7,120	7,150	7,180	7,210	7,240	7,270	7,290	7,320	7,350	2.4
2.6	7,280	7,310	7,350	7,380	7,410	7,450	7,480	7,510	7,540	7,580	7,610	7,640	7,670	7,710	7,740	7,770	7,800	7,830	7,860	7,900	7,930	2.6
2.8	7,830	7,860	7,900	7,940	7,970	8,010	8,040	8,080	8,120	8,150	8,190	8,220	8,250	8,290	8,320	8,360	8,390	8,430	8,460	8,490	8,530	2.8
3.0	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	9,020	9,060	9,090	9,130	3.0
3.2	8,930	8,970	9,010	9,050	9,090	9,130	9,170	9,210	9,250	9,290	9,330	9,370	9,410	9,450	9,490	9,530	9,570	9,610	9,650	9,690	9,730	3.2
3.4	9,460	9,510	9,550	9,590	9,640	9,680	9,730	9,770	9,810	9,850	9,900	9,940	9,980	10,020	10,060	10,110	10,150	10,190	10,230	10,270	10,310	3.4
3.6	10,000	10,050	10,100	10,140	10,190	10,240	10,280	10,330	10,370	10,420	10,460	10,510	10,550	10,600	10,640	10,690	10,730	10,770	10,820	10,860	10,900	3.6
3.8	10,570	10,610	10,660	10,710	10,760	10,810	10,860	10,910	10,960	11,000	11,050	11,100	11,150	11,190	11,240	11,290	11,330	11,380	11,430	11,470	11,520	3.8
4.0	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	12,050	12,100	12,140	4.0
4.2	11,710	11,770	11,820	11,880	11,930	11,980	12,040	12,090	12,150	12,200	12,250	12,300	12,360	12,410	12,460	12,510	12,570	12,620	12,670	12,720	12,770	4.2
4.4	12,290	12,350	12,410	12,460	12,520	12,580	12,640	12,690	12,750	12,800	12,860	12,920	12,970	13,030	13,080	13,140	13,190	13,240	13,300	13,350	13,400	4.4
4.6	12,890	12,950	13,010	13,070	13,130	13,190	13,250	13,310	13,370	13,430	13,490	13,550	13,600	13,660	13,720	13,780	13,830	13,890	13,950	14,000	14,060	4.6
4.8	13,510	13,570	13,630	13,700	13,760	13,820	13,890	13,950	14,010	14,070	14,130	14,190	14,260	14,320	14,380	14,440	14,500	14,560	14,620	14,680	14,730	4.8
5.0	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	15,360	15,420	5.0
5.2	14,780	14,850	14,920	14,990	15,050	15,120	15,190	15,260	15,330	15,400	15,460	15,530	15,600	15,660	15,730	15,800	15,860	15,930	15,990	16,060	16,120	5.2
5.4	15,430	15,510	15,580	15,650	15,720	15,800	15,870	15,940	16,010	16,080	16,150	16,220	16,290	16,360	16,430	16,500	16,570	16,640	16,710	16,770	16,840	5.4
5.6	16,110	16,180	16,260	16,340	16,410	16,490	16,560	16,640	16,710	16,790	16,860	16,930	17,010	17,080	17,150	17,220	17,300	17,370	17,440	17,510	17,580	5.6
5.8	16,800	16,880	16,960	17,040	17,120	17,200	17,280	17,360	17,430	17,510	17,590	17,670	17,740	17,820	17,890	17,970	18,040	18,120	18,190	18,270	18,340	5.8
6.0	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	19,120	6.0
6.2	18,240	18,330	18,420	18,510	18,590	18,680	18,760	18,850	18,930	19,020	19,100	19,190	19,270	19,350	19,440	19,520	19,600	19,680	19,760	19,840	19,920	6.2
6.4	18,990	19,080	19,170	19,260	19,350	19,440	19,530	19,620	19,710	19,800	19,880	19,970	20,060	20,140	20,230	20,320	20,400	20,490	20,570	20,660	20,740	6.4
6.6	19,740	19,840	19,930	20,030	20,120	20,210	20,310	20,400	20,490	20,580	20,680	20,770	20,860	20,950	21,040	21,130	21,220	21,300	21,390	21,480	21,570	6.6
6.8	20,510	20,600	20,700	20,800	20,900	21,000	21,090	21,190	21,290	21,380	21,480	21,570	21,660	21,760	21,850	21,950	22,040	22,130	22,220	22,310	22,400	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,630	26,760	26,890	27,020	27,150	27,280	27,400	27,530	27,660	27,780	27,910	28,030	28,160	28,280	28,400	28,520	28,650	28,770	28,890	29,010	29,130	8.6
8.8	27,010	27,140	27,270	27,400	27,530	27,660	27,790	27,910	28,040	28,170	28,290	28,420	28,540	28,670	28,790	28,910	29,040	29,160	29,280	29,400	29,520	8.8
9.0	27,290	27,420	27,550	27,680	27,810	27,940	28,070	28,190	28,320	28,450	28,570	28,700	28,820	28,950	29,070	29,200	29,320	29,440	29,560	29,680	29,800	9.0
9.2	27,550	27,680	27,810	27,940	28,070	28,200	28,320	28,450	28,580	28,710	28,830	28,960	29,080	29,210	29,330	29,450	29,580	29,700	29,820	29,940	30,060	9.2
9.4	27,790	27,920	28,050	28,180	28,310	28,440	28,570	28,700	28,820	28,950	29,080	29,200	29,330	29,450	29,580	29,700	29,820	29,940	30,070	30,190	30,310	9.4
9.6	28,020	28,150	28,280	28,410	28,540	28,670	28,790	28,920	29,050	29,180	29,300	29,430	29,550	29,680	29,800	29,920	30,040	30,170	30,290	30,410	30,530	9.6
9.8	28,210	28,340	28,470	28,600	28,730	28,860	28,990	29,110	29,240	29,360	29,490	29,620	29,740	29,860	29,990	30,110	30,230	30,350	30,470	30,600	30,720	9.8
10.0	28,370	28,500	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	30,260	30,380	30,500	30,620	30,740	30,860	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1040 to 1060
TAILWATER 930 to 931.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1,770	1,770	1,780	1,790	1,790	1,800	1.0*
1.0	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	3,530	3,550	3,560	3,570	3,580	3,590	1.0
1.2	4,010	4,020	4,040	4,060	4,070	4,090	4,100	4,120	4,130	4,150	4,160	4,180	4,190	4,210	4,220	4,240	4,250	4,270	4,280	4,290	4,310	1.2
1.4	4,600	4,610	4,630	4,650	4,670	4,680	4,700	4,720	4,740	4,750	4,770	4,790	4,810	4,820	4,840	4,860	4,870	4,890	4,910	4,920	4,940	1.4
1.6	5,130	5,150	5,170	5,190	5,210	5,230	5,250	5,270	5,290	5,310	5,330	5,350	5,370	5,390	5,400	5,420	5,440	5,460	5,480	5,500	5,520	1.6
1.8	5,680	5,700	5,720	5,740	5,770	5,790	5,810	5,830	5,850	5,870	5,900	5,920	5,940	5,960	5,980	6,000	6,020	6,040	6,060	6,080	6,100	1.8
2.0	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	6,620	6,640	6,670	6,690	6,710	2.0
2.2	6,800	6,830	6,860	6,880	6,910	6,940	6,960	6,990	7,010	7,040	7,070	7,090	7,120	7,140	7,170	7,190	7,220	7,240	7,270	7,290	7,320	2.2
2.4	7,350	7,380	7,410	7,440	7,470	7,500	7,520	7,550	7,580	7,610	7,640	7,660	7,690	7,720	7,750	7,770	7,800	7,830	7,850	7,880	7,910	2.4
2.6	7,930	7,960	7,990	8,020	8,050	8,080	8,110	8,140	8,170	8,200	8,230	8,260	8,290	8,320	8,350	8,380	8,410	8,440	8,470	8,500	8,530	2.6
2.8	8,530	8,560	8,590	8,630	8,660	8,690	8,730	8,760	8,790	8,820	8,860	8,890	8,920	8,950	8,980	9,020	9,050	9,080	9,110	9,140	9,170	2.8
3.0	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	9,720	9,760	9,790	9,820	3.0
3.2	9,730	9,760	9,800	9,840	9,880	9,920	9,950	9,990	10,030	10,060	10,100	10,140	10,180	10,210	10,250	10,280	10,320	10,360	10,390	10,430	10,460	3.2
3.4	10,310	10,350	10,390	10,430	10,470	10,510	10,550	10,590	10,630	10,670	10,710	10,750	10,790	10,830	10,870	10,910	10,940	10,980	11,020	11,060	11,100	3.4
3.6	10,900	10,950	10,990	11,030	11,070	11,120	11,160	11,200	11,240	11,290	11,330	11,370	11,410	11,450	11,490	11,530	11,570	11,610	11,650	11,690	11,730	3.6
3.8	11,520	11,560	11,610	11,650	11,700	11,740	11,790	11,830	11,880	11,920	11,960	12,010	12,050	12,100	12,140	12,180	12,230	12,270	12,310	12,350	12,400	3.8
4.0	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	12,980	13,030	13,070	4.0
4.2	12,770	12,820	12,870	12,920	12,970	13,020	13,070	13,120	13,170	13,220	13,270	13,320	13,370	13,410	13,460	13,510	13,560	13,610	13,650	13,700	13,750	4.2
4.4	13,400	13,460	13,510	13,560	13,620	13,670	13,720	13,770	13,820	13,880	13,930	13,980	14,030	14,080	14,130	14,180	14,230	14,280	14,330	14,380	14,430	4.4
4.6	14,060	14,120	14,170	14,230	14,280	14,340	14,390	14,450	14,500	14,560	14,610	14,660	14,720	14,770	14,820	14,880	14,930	14,980	15,040	15,090	15,140	4.6
4.8	14,730	14,790	14,850	14,910	14,970	15,030	15,080	15,140	15,200	15,250	15,310	15,370	15,420	15,480	15,540	15,590	15,650	15,700	15,760	15,810	15,870	4.8
5.0	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	16,550	16,610	5.0
5.2	16,120	16,190	16,250	16,320	16,380	16,440	16,510	16,570	16,630	16,690	16,760	16,820	16,880	16,940	17,000	17,070	17,130	17,190	17,250	17,310	17,370	5.2
5.4	16,840	16,910	16,980	17,040	17,110	17,180	17,240	17,310	17,370	17,440	17,510	17,570	17,630	17,700	17,760	17,830	17,890	17,950	18,020	18,080	18,140	5.4
5.6	17,580	17,650	17,720	17,790	17,860	17,930	18,000	18,070	18,140	18,210	18,270	18,340	18,410	18,480	18,540	18,610	18,680	18,740	18,810	18,880	18,940	5.6
5.8	18,340	18,420	18,490	18,560	18,640	18,710	18,780	18,850	18,920	19,000	19,070	19,140	19,210	19,280	19,350	19,420	19,490	19,560	19,630	19,700	19,760	5.8
6.0	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	20,610	6.0
6.2	19,920	20,000	20,080	20,160	20,240	20,320	20,400	20,480	20,560	20,640	20,710	20,790	20,870	20,940	21,020	21,100	21,170	21,250	21,320	21,400	21,470	6.2
6.4	20,740	20,820	20,910	20,990	21,070	21,160	21,240	21,320	21,400	21,480	21,560	21,640	21,720	21,800	21,880	21,960	22,040	22,120	22,200	22,280	22,360	6.4
6.6	21,570	21,660	21,740	21,830	21,910	22,000	22,090	22,170	22,260	22,340	22,420	22,510	22,590	22,680	22,760	22,840	22,920	23,010	23,090	23,170	23,250	6.6
6.8	22,400	22,500	22,590	22,680	22,770	22,850	22,940	23,030	23,120	23,210	23,300	23,380	23,470	23,560	23,640	23,730	23,810	23,900	23,990	24,070	24,150	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,130	29,250	29,370	29,480	29,600	29,720	29,840	29,950	30,070	30,180	30,300	30,410	30,530	30,640	30,760	30,870	30,980	31,090	31,200	31,320	31,430	8.6
8.8	29,520	29,640	29,760	29,880	30,000	30,120	30,230	30,350	30,470	30,580	30,700	30,820	30,930	31,050	31,160	31,270	31,390	31,500	31,610	31,720	31,840	8.8
9.0	29,800	29,920	30,040	30,160	30,280	30,400	30,520	30,640	30,750	30,870	30,990	31,100	31,220	31,330	31,450	31,560	31,670	31,790	31,900	32,010	32,120	9.0
9.2	30,060	30,180	30,300	30,420	30,540	30,660	30,780	30,900	31,010	31,130	31,250	31,360	31,480	31,590	31,710	31,820	31,930	32,050	32,160	32,270	32,390	9.2
9.4	30,310	30,430	30,550	30,670	30,790	30,910	31,020	31,140	31,260	31,380	31,490	31,610	31,720	31,840	31,950	32,070	32,180	32,290	32,410	32,520	32,630	9.4
9.6	30,530	30,650	30,770	30,890	31,010	31,130	31,250	31,360	31,480	31,600	31,710	31,830	31,940	32,060	32,170	32,290	32,400	32,510	32,630	32,740	32,850	9.6
9.8	30,720	30,840	30,960	31,070	31,190	31,310	31,430	31,550	31,660	31,780	31,900	32,010	32,130	32,240	32,350	32,470	32,580	32,690	32,810	32,920	33,030	9.8
10.0	30,860	30,980	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	32,600	32,720	32,830	32,940	33,050	33,170	10.0

HEADWATER 1060 to 1080
TAILWATER 930 to 931.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	1,010	1,020	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1,200	1,210	1.0*
1.0	2,020	2,040	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	2,360	2,370	2,390	2,410	1.0
1.2	2,420	2,450	2,470	2,500	2,520	2,550	2,570	2,600	2,620	2,640	2,670	2,690	2,710	2,740	2,760	2,780	2,800	2,830	2,850	2,870	2,890	1.2
1.4	2,780	2,810	2,840	2,870	2,890	2,920	2,950	2,980	3,010	3,030	3,060	3,090	3,110	3,140	3,170	3,190	3,220	3,240	3,270	3,290	3,320	1.4
1.6	3,100	3,140	3,170	3,200	3,230	3,270	3,300	3,330	3,360	3,390	3,420	3,450	3,480	3,510	3,540	3,570	3,590	3,620	3,650	3,680	3,710	1.6
1.8	3,440	3,470	3,510	3,550	3,580	3,620	3,650	3,690	3,720	3,750	3,790	3,820	3,850	3,880	3,920	3,950	3,980	4,010	4,040	4,070	4,100	1.8
2.0	3,780	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	4,410	4,450	4,480	4,520	2.0
2.2	4,130	4,170	4,210	4,260	4,300	4,340	4,380	4,420	4,460	4,500	4,540	4,580	4,620	4,660	4,700	4,740	4,780	4,820	4,850	4,890	4,930	2.2
2.4	4,460	4,510	4,560	4,600	4,650	4,690	4,740	4,780	4,830	4,870	4,910	4,960	5,000	5,040	5,080	5,130	5,170	5,210	5,250	5,290	5,330	2.4
2.6	4,820	4,870	4,920	4,970	5,020	5,060	5,110	5,160	5,210	5,260	5,300	5,350	5,390	5,440	5,490	5,530	5,570	5,620	5,660	5,710	5,750	2.6
2.8	5,180	5,240	5,290	5,350	5,400	5,450	5,500	5,560	5,610	5,660	5,710	5,760	5,810	5,860	5,910	5,950	6,000	6,050	6,100	6,140	6,190	2.8
3.0	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	6,580	6,630	3.0
3.2	5,910	5,970	6,030	6,090	6,160	6,220	6,280	6,330	6,390	6,450	6,510	6,570	6,620	6,680	6,730	6,790	6,840	6,900	6,950	7,010	7,060	3.2
3.4	6,260	6,320	6,390	6,450	6,520	6,580	6,650	6,710	6,770	6,830	6,890	6,960	7,020	7,080	7,130	7,190	7,250	7,310	7,370	7,420	7,480	3.4
3.6	6,610	6,680	6,750	6,820	6,890	6,950	7,020	7,090	7,150	7,220	7,280	7,350	7,410	7,470	7,540	7,600	7,660	7,720	7,780	7,840	7,900	3.6
3.8	6,970	7,040	7,120	7,190	7,260	7,340	7,410	7,480	7,550	7,620	7,690	7,750	7,820	7,890	7,950	8,020	8,090	8,150	8,210	8,280	8,340	3.8
4.0	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	8,650	8,720	8,790	4.0
4.2	7,710	7,790	7,870	7,950	8,030	8,110	8,190	8,270	8,350	8,430	8,500	8,580	8,660	8,730	8,800	8,880	8,950	9,020	9,090	9,170	9,240	4.2
4.4	8,080	8,160	8,250	8,340	8,420	8,510	8,590	8,670	8,760	8,840	8,920	9,000	9,080	9,160	9,230	9,310	9,390	9,460	9,540	9,610	9,690	4.4
4.6	8,460	8,550	8,640	8,730	8,820	8,910	9,000	9,090	9,180	9,260	9,350	9,430	9,510	9,590	9,680	9,760	9,840	9,920	10,000	10,080	10,150	4.6
4.8	8,850	8,950	9,050	9,140	9,240	9,330	9,420	9,510	9,600	9,690	9,780	9,870	9,960	10,050	10,130	10,220	10,300	10,390	10,470	10,550	10,630	4.8
5.0	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	11,030	11,120	5.0
5.2	9,660	9,770	9,870	9,980	10,080	10,190	10,290	10,390	10,490	10,590	10,680	10,780	10,880	10,970	11,070	11,160	11,250	11,350	11,440	11,530	11,620	5.2
5.4	10,080	10,190	10,300	10,410	10,520	10,630	10,730	10,840	10,940	11,050	11,150	11,250	11,350	11,450	11,550	11,650	11,750	11,840	11,940	12,030	12,130	5.4
5.6	10,500	10,620	10,740	10,850	10,970	11,080	11,190	11,300	11,410	11,520	11,630	11,730	11,840	11,940	12,050	12,150	12,250	12,350	12,450	12,550	12,650	5.6
5.8	10,940	11,070	11,190	11,310	11,430	11,540	11,660	11,780	11,890	12,000	12,120	12,230	12,340	12,450	12,560	12,660	12,770	12,880	12,980	13,080	13,190	5.8
6.0	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	13,740	6.0
6.2	11,850	11,990	12,120	12,250	12,380	12,510	12,640	12,760	12,890	13,010	13,130	13,260	13,380	13,500	13,610	13,730	13,850	13,960	14,080	14,190	14,300	6.2
6.4	12,320	12,460	12,600	12,730	12,870	13,010	13,140	13,270	13,400	13,530	13,660	13,780	13,910	14,030	14,160	14,280	14,400	14,520	14,640	14,760	14,880	6.4
6.6	12,790	12,940	13,080	13,230	13,370	13,510	13,650	13,780	13,920	14,050	14,190	14,320	14,450	14,580	14,710	14,840	14,960	15,090	15,210	15,340	15,460	6.6
6.8	13,270	13,420	13,570	13,720	13,870	14,010	14,160	14,300	14,440	14,580	14,720	14,860	15,000	15,130	15,270	15,400	15,530	15,660	15,790	15,920	16,050	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,050	17,250	17,450	17,650	17,850	18,040	18,230	18,420	18,610	18,800	18,980	19,160	19,350	19,520	19,700	19,880	20,050	20,230	20,400	20,570	20,730	8.6
8.8	17,340	17,550	17,750	17,950	18,140	18,340	18,530	18,720	18,910	19,100	19,280	19,460	19,650	19,820	20,000	20,180	20,350	20,530	20,700	20,870	21,040	8.8
9.0	17,570	17,780	17,980	18,180	18,370	18,570	18,760	18,950	19,140	19,330	19,510	19,690	19,880	20,060	20,230	20,410	20,590	20,760	20,930	21,100	21,270	9.0
9.2	17,800	18,000	18,200	18,400	18,600	18,790	18,980	19,170	19,360	19,550	19,730	19,920	20,100	20,280	20,450	20,630	20,810	20,980	21,150	21,320	21,490	9.2
9.4	18,030	18,230	18,430	18,620	18,820	19,010	19,200	19,390	19,580	19,770	19,950	20,130	20,310	20,490	20,670	20,850	21,020	21,190	21,370	21,540	21,710	9.4
9.6	18,240	18,440	18,640	18,840	19,030	19,220	19,420	19,600	19,790	19,980	20,160	20,340	20,520	20,700	20,880	21,050	21,230	21,400	21,570	21,740	21,910	9.6
9.8	18,440	18,640	18,840	19,040	19,230	19,420	19,610	19,800	19,980	20,170	20,350	20,530	20,710	20,880	21,060	21,240	21,410	21,580	21,750	21,920	22,090	9.8
10.0	18,630	18,820	19,020	19,210	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	21,740	21,910	22,070	22,240	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 980 to 1000
TAILWATER 932 to 933.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,210	1,210	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1,330	1,340	1,350	1,360	1,370	1,370	1.0*
1.0	2,410	2,430	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	2,670	2,680	2,700	2,710	2,730	2,750	1.0
1.2	2,890	2,910	2,930	2,960	2,980	3,000	3,020	3,040	3,060	3,080	3,100	3,120	3,140	3,160	3,180	3,200	3,220	3,240	3,260	3,280	3,300	1.2
1.4	3,320	3,340	3,370	3,390	3,420	3,440	3,460	3,490	3,510	3,530	3,560	3,580	3,600	3,630	3,650	3,670	3,690	3,710	3,740	3,760	3,780	1.4
1.6	3,710	3,730	3,760	3,790	3,820	3,840	3,870	3,900	3,920	3,950	3,970	4,000	4,030	4,050	4,080	4,100	4,130	4,150	4,180	4,200	4,220	1.6
1.8	4,100	4,140	4,170	4,200	4,230	4,260	4,280	4,310	4,340	4,370	4,400	4,430	4,460	4,490	4,510	4,540	4,570	4,600	4,620	4,650	4,680	1.8
2.0	4,520	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	5,000	5,030	5,060	5,090	5,120	5,150	2.0
2.2	4,930	4,960	5,000	5,040	5,070	5,110	5,140	5,180	5,210	5,250	5,280	5,320	5,350	5,380	5,420	5,450	5,480	5,520	5,550	5,580	5,610	2.2
2.4	5,330	5,370	5,410	5,450	5,480	5,520	5,560	5,600	5,640	5,670	5,710	5,750	5,790	5,820	5,860	5,890	5,930	5,970	6,000	6,040	6,070	2.4
2.6	5,750	5,790	5,830	5,880	5,920	5,960	6,000	6,040	6,080	6,120	6,160	6,200	6,240	6,280	6,320	6,360	6,400	6,440	6,480	6,510	6,550	2.6
2.8	6,190	6,230	6,280	6,330	6,370	6,420	6,460	6,500	6,550	6,590	6,630	6,680	6,720	6,760	6,800	6,850	6,890	6,930	6,970	7,010	7,050	2.8
3.0	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	7,340	7,380	7,430	7,470	7,510	7,560	3.0
3.2	7,060	7,110	7,160	7,220	7,270	7,320	7,370	7,420	7,470	7,520	7,570	7,620	7,670	7,720	7,760	7,810	7,860	7,910	7,950	8,000	8,050	3.2
3.4	7,480	7,540	7,590	7,650	7,700	7,750	7,810	7,860	7,920	7,970	8,020	8,070	8,130	8,180	8,230	8,280	8,330	8,380	8,430	8,480	8,530	3.4
3.6	7,900	7,960	8,020	8,080	8,140	8,200	8,250	8,310	8,370	8,420	8,480	8,530	8,590	8,640	8,700	8,750	8,800	8,860	8,910	8,960	9,010	3.6
3.8	8,340	8,400	8,470	8,530	8,590	8,650	8,710	8,770	8,830	8,890	8,950	9,010	9,070	9,120	9,180	9,240	9,300	9,350	9,410	9,460	9,520	3.8
4.0	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,920	9,970	10,030	4.0
4.2	9,240	9,310	9,370	9,440	9,510	9,580	9,650	9,710	9,780	9,850	9,910	9,980	10,040	10,110	10,170	10,230	10,300	10,360	10,420	10,480	10,550	4.2
4.4	9,690	9,760	9,830	9,910	9,980	10,050	10,120	10,190	10,260	10,330	10,400	10,470	10,540	10,600	10,670	10,740	10,800	10,870	10,940	11,000	11,070	4.4
4.6	10,150	10,230	10,310	10,380	10,460	10,530	10,610	10,680	10,760	10,830	10,900	10,970	11,050	11,120	11,190	11,260	11,330	11,400	11,470	11,530	11,600	4.6
4.8	10,630	10,710	10,790	10,870	10,950	11,030	11,110	11,190	11,270	11,340	11,420	11,490	11,570	11,640	11,720	11,790	11,870	11,940	12,010	12,080	12,150	4.8
5.0	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	12,490	12,570	12,640	12,720	5.0
5.2	11,620	11,710	11,800	11,880	11,970	12,060	12,140	12,230	12,310	12,400	12,480	12,570	12,650	12,730	12,810	12,890	12,970	13,050	13,130	13,210	13,290	5.2
5.4	12,130	12,220	12,310	12,410	12,500	12,590	12,680	12,770	12,860	12,940	13,030	13,120	13,210	13,290	13,380	13,460	13,550	13,630	13,710	13,800	13,880	5.4
5.6	12,650	12,750	12,840	12,940	13,040	13,130	13,230	13,320	13,410	13,500	13,600	13,690	13,780	13,870	13,960	14,050	14,130	14,220	14,310	14,400	14,480	5.6
5.8	13,190	13,290	13,390	13,490	13,590	13,690	13,790	13,890	13,980	14,080	14,180	14,270	14,370	14,460	14,550	14,650	14,740	14,830	14,920	15,010	15,100	5.8
6.0	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	15,550	15,650	15,740	6.0
6.2	14,300	14,410	14,530	14,640	14,740	14,850	14,960	15,070	15,170	15,280	15,380	15,490	15,590	15,690	15,790	15,900	16,000	16,100	16,200	16,290	16,390	6.2
6.4	14,880	14,990	15,110	15,220	15,340	15,450	15,560	15,670	15,790	15,900	16,000	16,110	16,220	16,330	16,430	16,540	16,640	16,750	16,850	16,950	17,060	6.4
6.6	15,460	15,580	15,700	15,820	15,940	16,060	16,170	16,290	16,410	16,520	16,630	16,750	16,860	16,970	17,080	17,190	17,300	17,410	17,520	17,620	17,730	6.6
6.8	16,050	16,170	16,300	16,420	16,550	16,670	16,790	16,910	17,030	17,150	17,270	17,390	17,500	17,620	17,740	17,850	17,960	18,080	18,190	18,300	18,410	6.8
7.0	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	18,980	19,090	7.0
7.2	17,220	17,360	17,500	17,630	17,760	17,900	18,030	18,160	18,290	18,420	18,540	18,670	18,800	18,920	19,050	19,170	19,290	19,420	19,540	19,660	19,780	7.2
7.4	17,800	17,950	18,090	18,230	18,360	18,500	18,640	18,770	18,910	19,040	19,170	19,310	19,440	19,570	19,700	19,820	19,950	20,080	20,200	20,330	20,450	7.4
7.6	18,370	18,520	18,670	18,810	18,950	19,100	19,240	19,380	19,520	19,650	19,790	19,930	20,060	20,200	20,330	20,460	20,600	20,730	20,860	20,990	21,110	7.6
7.8	18,920	19,070	19,220	19,370	19,520	19,670	19,810	19,960	20,100	20,240	20,390	20,530	20,670	20,800	20,940	21,080	21,220	21,350	21,490	21,620	21,750	7.8
8.0	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	22,340	8.0
8.2	19,900	20,060	20,220	20,380	20,540	20,690	20,850	21,000	21,150	21,300	21,450	21,600	21,750	21,900	22,040	22,190	22,330	22,470	22,620	22,760	22,900	8.2
8.4	20,350	20,510	20,680	20,840	21,000	21,160	21,320	21,470	21,630	21,780	21,940	22,090	22,240	22,390	22,540	22,690	22,840	22,990	23,130	23,280	23,420	8.4
8.6	20,730	20,900	21,070	21,230	21,400	21,560	21,720	21,880	22,040	22,190	22,350	22,510	22,660	22,810	22,960	23,120	23,270	23,410	23,560	23,710	23,860	8.6
8.8	21,040	21,210	21,380	21,540	21,710	21,870	22,030	22,190	22,350	22,510	22,670	22,820	22,980	23,130	23,280	23,440	23,590	23,740	23,890	24,030	24,180	8.8
9.0	21,270	21,440	21,610	21,770	21,940	22,100	22,260	22,420	22,580	22,740	22,900	23,050	23,210	23,360	23,520	23,670	23,820	23,970	24,120	24,270	24,420	9.0
9.2	21,490	21,660	21,830	21,990	22,160	22,320	22,480	22,640	22,800	22,960	23,120	23,270	23,430	23,580	23,740	23,890	24,040	24,190	24,340	24,490	24,640	9.2
9.4	21,710	21,870	22,040	22,210	22,370	22,530	22,690	22,850	23,010	23,170	23,330	23,490	23,640	23,800	23,950	24,100	24,250	24,400	24,550	24,700	24,850	9.4
9.6	21,910	22,070	22,240	22,410	22,570	22,730	22,890	23,050	23,210	23,370	23,530	23,680	23,840	23,990	24,140	24,300	24,450	24,600	24,750	24,890	25,040	9.6
9.8	22,090	22,250	22,420	22,580	22,750	22,910	23,070	23,230	23,390	23,540	23,700	23,850	24,010	24,160	24,310	24,470	24,620	24,770	24,910	25,060	25,210	9.8
10.0	22,240	22,410	22,570	22,730	22,890	23,050	23,210	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	24,600	24,750	24,900	25,050	25,200	25,340	10.0

HEADWATER 1000 to 1020
TAILWATER 932 to 933.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1, 370	1, 380	1, 390	1, 400	1, 400	1, 410	1, 420	1, 430	1, 440	1, 440	1, 450	1, 460	1, 470	1, 470	1, 480	1, 490	1, 490	1, 500	1, 510	1, 520	1, 520	1.0*
1.0	2, 750	2, 760	2, 780	2, 790	2, 810	2, 820	2, 840	2, 860	2, 870	2, 890	2, 900	2, 920	2, 930	2, 940	2, 960	2, 970	2, 990	3, 000	3, 020	3, 030	3, 050	1.0
1.2	3, 300	3, 310	3, 330	3, 350	3, 370	3, 390	3, 410	3, 430	3, 440	3, 460	3, 480	3, 500	3, 520	3, 530	3, 550	3, 570	3, 590	3, 600	3, 620	3, 640	3, 650	1.2
1.4	3, 780	3, 800	3, 820	3, 850	3, 870	3, 890	3, 910	3, 930	3, 950	3, 970	3, 990	4, 010	4, 030	4, 050	4, 070	4, 090	4, 110	4, 130	4, 150	4, 170	4, 190	1.4
1.6	4, 220	4, 250	4, 270	4, 300	4, 320	4, 340	4, 370	4, 390	4, 410	4, 440	4, 460	4, 480	4, 510	4, 530	4, 550	4, 570	4, 600	4, 620	4, 640	4, 660	4, 680	1.6
1.8	4, 680	4, 700	4, 730	4, 760	4, 780	4, 810	4, 840	4, 860	4, 890	4, 910	4, 940	4, 960	4, 990	5, 010	5, 040	5, 060	5, 090	5, 110	5, 140	5, 160	5, 190	1.8
2.0	5, 150	5, 180	5, 210	5, 230	5, 260	5, 290	5, 320	5, 350	5, 380	5, 410	5, 430	5, 460	5, 490	5, 520	5, 540	5, 570	5, 600	5, 630	5, 650	5, 680	5, 710	2.0
2.2	5, 610	5, 650	5, 680	5, 710	5, 740	5, 770	5, 800	5, 840	5, 870	5, 900	5, 930	5, 960	5, 990	6, 020	6, 050	6, 080	6, 110	6, 140	6, 170	6, 200	6, 230	2.2
2.4	6, 070	6, 110	6, 140	6, 170	6, 210	6, 240	6, 280	6, 310	6, 340	6, 380	6, 410	6, 440	6, 480	6, 510	6, 540	6, 570	6, 610	6, 640	6, 670	6, 700	6, 730	2.4
2.6	6, 550	6, 590	6, 630	6, 660	6, 700	6, 740	6, 770	6, 810	6, 850	6, 880	6, 920	6, 950	6, 990	7, 020	7, 060	7, 090	7, 130	7, 160	7, 200	7, 230	7, 270	2.6
2.8	7, 050	7, 090	7, 130	7, 170	7, 210	7, 250	7, 290	7, 330	7, 370	7, 410	7, 450	7, 480	7, 520	7, 560	7, 600	7, 640	7, 670	7, 710	7, 750	7, 780	7, 820	2.8
3.0	7, 560	7, 600	7, 640	7, 690	7, 730	7, 770	7, 810	7, 850	7, 900	7, 940	7, 980	8, 020	8, 060	8, 100	8, 140	8, 180	8, 220	8, 260	8, 300	8, 340	8, 380	3.0
3.2	8, 050	8, 090	8, 140	8, 180	8, 230	8, 280	8, 320	8, 360	8, 410	8, 450	8, 500	8, 540	8, 580	8, 630	8, 670	8, 710	8, 760	8, 800	8, 840	8, 880	8, 930	3.2
3.4	8, 530	8, 580	8, 630	8, 680	8, 720	8, 770	8, 820	8, 870	8, 910	8, 960	9, 010	9, 050	9, 100	9, 150	9, 190	9, 240	9, 280	9, 330	9, 370	9, 420	9, 460	3.4
3.6	9, 010	9, 070	9, 120	9, 170	9, 220	9, 270	9, 320	9, 370	9, 420	9, 470	9, 520	9, 570	9, 620	9, 670	9, 720	9, 770	9, 810	9, 860	9, 910	9, 960	10, 000	3.6
3.8	9, 520	9, 570	9, 630	9, 680	9, 740	9, 790	9, 840	9, 900	9, 950	10, 000	10, 060	10, 110	10, 160	10, 210	10, 260	10, 310	10, 360	10, 410	10, 470	10, 520	10, 570	3.8
4.0	10, 030	10, 090	10, 150	10, 210	10, 260	10, 320	10, 380	10, 430	10, 490	10, 540	10, 600	10, 650	10, 710	10, 760	10, 820	10, 870	10, 930	10, 980	11, 030	11, 090	11, 140	4.0
4.2	10, 550	10, 610	10, 670	10, 730	10, 790	10, 850	10, 910	10, 970	11, 030	11, 090	11, 140	11, 200	11, 260	11, 320	11, 370	11, 430	11, 490	11, 540	11, 600	11, 660	11, 710	4.2
4.4	11, 070	11, 130	11, 190	11, 260	11, 320	11, 380	11, 450	11, 510	11, 570	11, 630	11, 690	11, 760	11, 820	11, 880	11, 940	12, 000	12, 060	12, 120	12, 170	12, 230	12, 290	4.4
4.6	11, 600	11, 670	11, 740	11, 800	11, 870	11, 940	12, 000	12, 070	12, 130	12, 200	12, 260	12, 330	12, 390	12, 450	12, 520	12, 580	12, 640	12, 710	12, 770	12, 830	12, 890	4.6
4.8	12, 150	12, 230	12, 300	12, 370	12, 440	12, 510	12, 580	12, 640	12, 710	12, 780	12, 850	12, 920	12, 980	13, 050	13, 120	13, 180	13, 250	13, 310	13, 380	13, 440	13, 510	4.8
5.0	12, 720	12, 790	12, 870	12, 940	13, 010	13, 090	13, 160	13, 230	13, 300	13, 370	13, 440	13, 510	13, 590	13, 650	13, 720	13, 790	13, 860	13, 930	14, 000	14, 070	14, 130	5.0
5.2	13, 290	13, 370	13, 450	13, 520	13, 600	13, 680	13, 750	13, 830	13, 900	13, 980	14, 050	14, 130	14, 200	14, 270	14, 350	14, 420	14, 490	14, 560	14, 630	14, 700	14, 780	5.2
5.4	13, 880	13, 960	14, 040	14, 120	14, 200	14, 280	14, 360	14, 440	14, 520	14, 600	14, 680	14, 750	14, 830	14, 910	14, 980	15, 060	15, 130	15, 210	15, 280	15, 360	15, 430	5.4
5.6	14, 480	14, 570	14, 650	14, 740	14, 820	14, 900	14, 990	15, 070	15, 150	15, 230	15, 320	15, 400	15, 480	15, 560	15, 640	15, 720	15, 790	15, 870	15, 950	16, 030	16, 110	5.6
5.8	15, 100	15, 190	15, 280	15, 370	15, 460	15, 540	15, 630	15, 720	15, 800	15, 890	15, 970	16, 060	16, 140	16, 230	16, 310	16, 390	16, 470	16, 560	16, 640	16, 720	16, 800	5.8
6.0	15, 740	15, 830	15, 930	16, 020	16, 110	16, 200	16, 290	16, 380	16, 470	16, 560	16, 650	16, 740	16, 830	16, 910	17, 000	17, 090	17, 170	17, 260	17, 340	17, 430	17, 510	6.0
6.2	16, 390	16, 490	16, 590	16, 680	16, 780	16, 870	16, 970	17, 060	17, 160	17, 250	17, 340	17, 440	17, 530	17, 620	17, 710	17, 800	17, 890	17, 980	18, 070	18, 160	18, 240	6.2
6.4	17, 060	17, 160	17, 260	17, 360	17, 460	17, 560	17, 660	17, 760	17, 850	17, 950	18, 050	18, 140	18, 240	18, 340	18, 430	18, 520	18, 620	18, 710	18, 800	18, 900	18, 990	6.4
6.6	17, 730	17, 840	17, 940	18, 050	18, 150	18, 250	18, 360	18, 460	18, 560	18, 660	18, 760	18, 860	18, 960	19, 060	19, 160	19, 260	19, 360	19, 450	19, 550	19, 650	19, 740	6.6
6.8	18, 410	18, 520	18, 630	18, 740	18, 850	18, 960	19, 060	19, 170	19, 280	19, 380	19, 490	19, 590	19, 690	19, 800	19, 900	20, 000	20, 100	20, 210	20, 310	20, 410	20, 510	6.8
7.0	19, 090	19, 210	19, 320	19, 440	19, 550	19, 660	19, 770	19, 880	19, 990	20, 100	20, 210	20, 320	20, 430	20, 540	20, 640	20, 750	20, 850	20, 960	21, 060	21, 170	21, 270	7.0
7.2	19, 780	19, 900	20, 010	20, 130	20, 250	20, 370	20, 480	20, 600	20, 710	20, 820	20, 940	21, 050	21, 160	21, 270	21, 380	21, 490	21, 600	21, 710	21, 820	21, 930	22, 040	7.2
7.4	20, 450	20, 580	20, 700	20, 820	20, 940	21, 060	21, 180	21, 300	21, 420	21, 540	21, 650	21, 770	21, 890	22, 000	22, 120	22, 230	22, 350	22, 460	22, 570	22, 680	22, 790	7.4
7.6	21, 110	21, 240	21, 370	21, 490	21, 620	21, 750	21, 870	21, 990	22, 120	22, 240	22, 360	22, 480	22, 600	22, 720	22, 840	22, 960	23, 070	23, 190	23, 310	23, 420	23, 540	7.6
7.8	21, 750	21, 880	22, 010	22, 140	22, 270	22, 400	22, 530	22, 660	22, 790	22, 910	23, 040	23, 160	23, 280	23, 410	23, 530	23, 650	23, 770	23, 890	24, 020	24, 130	24, 250	7.8
8.0	22, 340	22, 480	22, 610	22, 750	22, 880	23, 010	23, 140	23, 280	23, 410	23, 540	23, 660	23, 790	23, 920	24, 050	24, 170	24, 300	24, 420	24, 550	24, 670	24, 800	24, 920	8.0
8.2	22, 900	23, 040	23, 180	23, 310	23, 450	23, 590	23, 720	23, 860	23, 990	24, 120	24, 260	24, 390	24, 520	24, 650	24, 780	24, 910	25, 040	25, 160	25, 290	25, 420	25, 540	8.2
8.4	23, 420	23, 560	23, 710	23, 850	23, 990	24, 130	24, 270	24, 400	24, 540	24, 680	24, 810	24, 950	25, 080	25, 220	25, 350	25, 480	25, 610	25, 740	25, 870	26, 000	26, 130	8.4
8.6	23, 860	24, 000	24, 150	24, 290	24, 430	24, 580	24, 720	24, 860	25, 000	25, 140	25, 270	25, 410	25, 550	25, 680	25, 820	25, 950	26, 090	26, 220	26, 350	26, 480	26, 610	8.6
8.8	24, 180	24, 330	24, 470	24, 620	24, 760	24, 900	25, 050	25, 190	25, 330	25, 470	25, 610	25, 750	25, 880	26, 020	26, 160	26, 290	26, 430	26, 560	26, 690	26, 830	26, 960	8.8
9.0	24, 420	24, 560	24, 710	24, 850	25, 000	25, 140	25, 280	25, 430	25, 570	25, 710	25, 850	25, 980	26, 120	26, 260	26, 400	26, 530	26, 670	26, 800	26, 930	27, 070	27, 200	9.0
9.2	24, 640	24, 780	24, 930	25, 070	25, 220	25, 360	25, 500	25, 650	25, 790	25, 930	26, 070	26, 200	26, 340	26, 480	26, 620	26, 750	26, 890	27, 020	27, 160	27, 290	27, 420	9.2
9.4	24, 850	24, 990	25, 140	25, 280	25, 430	25, 570	25, 710	25, 860	26, 000	26, 140	26, 280	26, 420	26, 550	26, 690	26, 830	26, 960	27, 100	27, 230	27, 370	27, 500	27, 630	9.4
9.6	25, 040	25, 190	25, 330	25, 480	25, 620	25, 770	25, 910	26, 050	26, 190	26, 330	26, 470	26, 610	26, 750	26, 880	27, 020	27, 160	27, 290	27, 420	27, 560	27, 690	27, 820	9.6
9.8	25, 210	25, 350	25, 500	25, 640	25, 790	25, 930	26, 070	26, 210	26, 350	26, 490	26, 630	26, 770	26, 910	27, 040	27, 180	27, 320	27, 450	27, 580	27, 720	27, 850	27, 980	9.8
10.0	25, 340	25, 490	25, 630	25, 780	25, 920	26, 060	26, 200	26, 340	26, 480	26, 620	26, 760	26, 900	27, 030	27, 170	27, 310	27, 440	27, 570	27, 710	27, 840	27, 970	28, 110	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1020 to 1040
TAILWATER 932 to 933.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,520	1,530	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1,640	1,650	1,650	1,660	1.0*
1.0	3,050	3,060	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	3,280	3,290	3,310	3,320	1.0
1.2	3,650	3,670	3,690	3,710	3,720	3,740	3,760	3,770	3,790	3,800	3,820	3,840	3,850	3,870	3,890	3,900	3,920	3,930	3,950	3,970	3,980	1.2
1.4	4,190	4,210	4,230	4,250	4,270	4,290	4,310	4,330	4,350	4,370	4,380	4,400	4,420	4,440	4,460	4,480	4,500	4,510	4,530	4,550	4,570	1.4
1.6	4,680	4,710	4,730	4,750	4,770	4,790	4,810	4,840	4,860	4,880	4,900	4,920	4,940	4,960	4,980	5,000	5,020	5,040	5,060	5,080	5,100	1.6
1.8	5,190	5,210	5,240	5,260	5,280	5,310	5,330	5,350	5,380	5,400	5,420	5,450	5,470	5,490	5,520	5,540	5,560	5,580	5,610	5,630	5,650	1.8
2.0	5,710	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	6,140	6,170	6,190	6,220	2.0
2.2	6,230	6,260	6,280	6,310	6,340	6,370	6,400	6,430	6,450	6,480	6,510	6,540	6,570	6,590	6,620	6,650	6,680	6,700	6,730	6,760	6,780	2.2
2.4	6,730	6,760	6,800	6,830	6,860	6,890	6,920	6,950	6,980	7,010	7,040	7,070	7,100	7,130	7,160	7,190	7,220	7,250	7,280	7,310	7,340	2.4
2.6	7,270	7,300	7,330	7,370	7,400	7,430	7,470	7,500	7,530	7,560	7,600	7,630	7,660	7,690	7,730	7,760	7,790	7,820	7,850	7,880	7,910	2.6
2.8	7,820	7,860	7,890	7,930	7,970	8,000	8,040	8,070	8,110	8,140	8,180	8,210	8,250	8,280	8,320	8,350	8,390	8,420	8,450	8,490	8,520	2.8
3.0	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	9,020	9,060	9,090	9,130	3.0
3.2	8,930	8,970	9,010	9,050	9,090	9,130	9,170	9,210	9,250	9,290	9,330	9,370	9,410	9,450	9,490	9,530	9,570	9,610	9,650	9,690	9,730	3.2
3.4	9,460	9,510	9,550	9,590	9,640	9,680	9,730	9,770	9,810	9,850	9,900	9,940	9,980	10,020	10,060	10,110	10,150	10,190	10,230	10,270	10,310	3.4
3.6	10,000	10,050	10,100	10,140	10,190	10,240	10,280	10,330	10,370	10,420	10,460	10,510	10,550	10,600	10,640	10,690	10,730	10,770	10,820	10,860	10,900	3.6
3.8	10,570	10,610	10,660	10,710	10,760	10,810	10,860	10,910	10,960	11,000	11,050	11,100	11,150	11,190	11,240	11,290	11,330	11,380	11,430	11,470	11,520	3.8
4.0	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	12,050	12,100	12,140	4.0
4.2	11,710	11,770	11,820	11,880	11,930	11,980	12,040	12,090	12,150	12,200	12,250	12,300	12,360	12,410	12,460	12,510	12,570	12,620	12,670	12,720	12,770	4.2
4.4	12,290	12,350	12,410	12,460	12,520	12,580	12,640	12,690	12,750	12,800	12,860	12,920	12,970	13,030	13,080	13,140	13,190	13,240	13,300	13,350	13,400	4.4
4.6	12,890	12,950	13,010	13,070	13,130	13,190	13,250	13,310	13,370	13,430	13,490	13,550	13,600	13,660	13,720	13,780	13,830	13,890	13,950	14,000	14,060	4.6
4.8	13,510	13,570	13,630	13,700	13,760	13,820	13,890	13,950	14,010	14,070	14,130	14,190	14,260	14,320	14,380	14,440	14,500	14,560	14,620	14,680	14,730	4.8
5.0	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	15,360	15,420	5.0
5.2	14,780	14,850	14,920	14,990	15,050	15,120	15,190	15,260	15,330	15,400	15,460	15,530	15,600	15,660	15,730	15,800	15,860	15,930	15,990	16,060	16,120	5.2
5.4	15,430	15,510	15,580	15,650	15,720	15,800	15,870	15,940	16,010	16,080	16,150	16,220	16,290	16,360	16,430	16,500	16,570	16,640	16,710	16,770	16,840	5.4
5.6	16,110	16,180	16,260	16,340	16,410	16,490	16,560	16,640	16,710	16,790	16,860	16,930	17,010	17,080	17,150	17,220	17,300	17,370	17,440	17,510	17,580	5.6
5.8	16,800	16,880	16,960	17,040	17,120	17,200	17,280	17,360	17,430	17,510	17,590	17,670	17,740	17,820	17,890	17,970	18,040	18,120	18,190	18,270	18,340	5.8
6.0	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	19,120	6.0
6.2	18,240	18,330	18,420	18,510	18,590	18,680	18,760	18,850	18,930	19,020	19,100	19,190	19,270	19,350	19,440	19,520	19,600	19,680	19,760	19,840	19,920	6.2
6.4	18,990	19,080	19,170	19,260	19,350	19,440	19,530	19,620	19,710	19,800	19,880	19,970	20,060	20,140	20,230	20,320	20,400	20,490	20,570	20,660	20,740	6.4
6.6	19,740	19,840	19,930	20,030	20,120	20,210	20,310	20,400	20,490	20,580	20,680	20,770	20,860	20,950	21,040	21,130	21,220	21,300	21,390	21,480	21,570	6.6
6.8	20,510	20,600	20,700	20,800	20,900	21,000	21,090	21,190	21,290	21,380	21,480	21,570	21,660	21,760	21,850	21,950	22,040	22,130	22,220	22,310	22,400	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,610	26,740	26,870	27,000	27,130	27,260	27,390	27,510	27,640	27,770	27,890	28,020	28,140	28,260	28,390	28,510	28,630	28,750	28,870	28,990	29,110	8.6
8.8	26,960	27,090	27,220	27,350	27,480	27,610	27,740	27,860	27,990	28,120	28,240	28,370	28,490	28,620	28,740	28,870	28,990	29,110	29,230	29,350	29,470	8.8
9.0	27,200	27,330	27,460	27,590	27,720	27,850	27,980	28,110	28,240	28,360	28,490	28,620	28,740	28,870	28,990	29,110	29,240	29,360	29,480	29,600	29,720	9.0
9.2	27,420	27,550	27,690	27,820	27,950	28,080	28,200	28,330	28,460	28,590	28,710	28,840	28,970	29,090	29,210	29,340	29,460	29,580	29,710	29,830	29,950	9.2
9.4	27,630	27,770	27,900	28,030	28,160	28,290	28,420	28,540	28,670	28,800	28,930	29,050	29,180	29,300	29,430	29,550	29,670	29,800	29,920	30,040	30,160	9.4
9.6	27,820	27,960	28,090	28,220	28,350	28,480	28,610	28,730	28,860	28,990	29,120	29,240	29,370	29,490	29,620	29,740	29,860	29,990	30,110	30,230	30,350	9.6
9.8	27,980	28,110	28,250	28,380	28,510	28,640	28,760	28,890	29,020	29,150	29,270	29,400	29,520	29,650	29,770	29,900	30,020	30,140	30,260	30,390	30,510	9.8
10.0	28,110	28,240	28,370	28,500	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	30,260	30,380	30,500	30,620	10.0

HEADWATER 1040 to 1060
TAILWATER 932 to 933.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,660	1,670	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1,770	1,770	1,780	1,790	1.0*
1.0	3,320	3,330	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	3,530	3,550	3,560	3,570	1.0
1.2	3,980	4,000	4,010	4,030	4,040	4,060	4,070	4,090	4,100	4,120	4,140	4,150	4,170	4,180	4,190	4,210	4,220	4,240	4,250	4,270	4,280	1.2
1.4	4,570	4,590	4,600	4,620	4,640	4,660	4,670	4,690	4,710	4,730	4,740	4,760	4,780	4,800	4,810	4,830	4,850	4,860	4,880	4,900	4,910	1.4
1.6	5,100	5,120	5,140	5,160	5,180	5,200	5,220	5,240	5,260	5,280	5,300	5,320	5,340	5,360	5,380	5,400	5,420	5,430	5,450	5,470	5,490	1.6
1.8	5,650	5,670	5,700	5,720	5,740	5,760	5,780	5,810	5,830	5,850	5,870	5,890	5,910	5,930	5,950	5,980	6,000	6,020	6,040	6,060	6,080	1.8
2.0	6,220	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	6,620	6,640	6,670	6,690	2.0
2.2	6,780	6,810	6,840	6,860	6,890	6,920	6,940	6,970	6,990	7,020	7,050	7,070	7,100	7,120	7,150	7,170	7,200	7,220	7,250	7,270	7,300	2.2
2.4	7,340	7,360	7,390	7,420	7,450	7,480	7,510	7,530	7,560	7,590	7,620	7,650	7,670	7,700	7,730	7,760	7,780	7,810	7,840	7,860	7,890	2.4
2.6	7,910	7,950	7,980	8,010	8,040	8,070	8,100	8,130	8,160	8,190	8,220	8,250	8,280	8,310	8,340	8,370	8,400	8,430	8,460	8,490	8,520	2.6
2.8	8,520	8,550	8,590	8,620	8,650	8,690	8,720	8,750	8,780	8,820	8,850	8,880	8,910	8,950	8,980	9,010	9,040	9,070	9,100	9,140	9,170	2.8
3.0	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	9,720	9,760	9,790	9,820	3.0
3.2	9,730	9,760	9,800	9,840	9,880	9,920	9,950	9,990	10,030	10,060	10,100	10,140	10,180	10,210	10,250	10,280	10,320	10,360	10,390	10,430	10,460	3.2
3.4	10,310	10,350	10,390	10,430	10,470	10,510	10,550	10,590	10,630	10,670	10,710	10,750	10,790	10,830	10,870	10,910	10,940	10,980	11,020	11,060	11,100	3.4
3.6	10,900	10,950	10,990	11,030	11,070	11,120	11,160	11,200	11,240	11,290	11,330	11,370	11,410	11,450	11,490	11,530	11,570	11,610	11,650	11,690	11,730	3.6
3.8	11,520	11,560	11,610	11,650	11,700	11,740	11,790	11,830	11,880	11,920	11,960	12,010	12,050	12,100	12,140	12,180	12,230	12,270	12,310	12,350	12,400	3.8
4.0	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	12,980	13,030	13,070	4.0
4.2	12,770	12,820	12,870	12,920	12,970	13,020	13,070	13,120	13,170	13,220	13,270	13,320	13,370	13,410	13,460	13,510	13,560	13,610	13,650	13,700	13,750	4.2
4.4	13,400	13,460	13,510	13,560	13,620	13,670	13,720	13,770	13,820	13,880	13,930	13,980	14,030	14,080	14,130	14,180	14,230	14,280	14,330	14,380	14,430	4.4
4.6	14,060	14,120	14,170	14,230	14,280	14,340	14,390	14,450	14,500	14,560	14,610	14,660	14,720	14,770	14,820	14,880	14,930	14,980	15,040	15,090	15,140	4.6
4.8	14,730	14,790	14,850	14,910	14,970	15,030	15,080	15,140	15,200	15,250	15,310	15,370	15,420	15,480	15,540	15,590	15,650	15,700	15,760	15,810	15,870	4.8
5.0	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	16,550	16,610	5.0
5.2	16,120	16,190	16,250	16,320	16,380	16,440	16,510	16,570	16,630	16,690	16,760	16,820	16,880	16,940	17,000	17,070	17,130	17,190	17,250	17,310	17,370	5.2
5.4	16,840	16,910	16,980	17,040	17,110	17,180	17,240	17,310	17,370	17,440	17,510	17,570	17,630	17,700	17,760	17,830	17,890	17,950	18,020	18,080	18,140	5.4
5.6	17,580	17,650	17,720	17,790	17,860	17,930	18,000	18,070	18,140	18,210	18,270	18,340	18,410	18,480	18,540	18,610	18,680	18,740	18,810	18,880	18,940	5.6
5.8	18,340	18,420	18,490	18,560	18,640	18,710	18,780	18,850	18,920	19,000	19,070	19,140	19,210	19,280	19,350	19,420	19,490	19,560	19,630	19,700	19,760	5.8
6.0	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	20,610	6.0
6.2	19,920	20,000	20,080	20,160	20,240	20,320	20,400	20,480	20,560	20,640	20,710	20,790	20,870	20,940	21,020	21,100	21,170	21,250	21,320	21,400	21,470	6.2
6.4	20,740	20,820	20,910	20,990	21,070	21,160	21,240	21,320	21,400	21,480	21,560	21,640	21,720	21,800	21,880	21,960	22,040	22,120	22,200	22,280	22,360	6.4
6.6	21,570	21,660	21,740	21,830	21,910	22,000	22,090	22,170	22,260	22,340	22,420	22,510	22,590	22,680	22,760	22,840	22,920	23,010	23,090	23,170	23,250	6.6
6.8	22,400	22,500	22,590	22,680	22,770	22,850	22,940	23,030	23,120	23,210	23,300	23,380	23,470	23,560	23,640	23,730	23,810	23,900	23,990	24,070	24,150	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,110	29,230	29,350	29,470	29,590	29,700	29,820	29,940	30,050	30,170	30,280	30,400	30,510	30,630	30,740	30,850	30,970	31,080	31,190	31,300	31,410	8.6
8.8	29,470	29,590	29,710	29,830	29,950	30,070	30,190	30,300	30,420	30,540	30,650	30,770	30,890	31,000	31,110	31,230	31,340	31,450	31,570	31,680	31,790	8.8
9.0	29,720	29,840	29,960	30,080	30,200	30,320	30,440	30,560	30,670	30,790	30,910	31,020	31,140	31,250	31,370	31,480	31,600	31,710	31,820	31,940	32,050	9.0
9.2	29,950	30,070	30,190	30,310	30,430	30,550	30,670	30,790	30,900	31,020	31,140	31,250	31,370	31,480	31,600	31,710	31,830	31,940	32,060	32,170	32,280	9.2
9.4	30,160	30,280	30,410	30,530	30,640	30,760	30,880	31,000	31,120	31,240	31,350	31,470	31,580	31,700	31,820	31,930	32,040	32,160	32,270	32,380	32,500	9.4
9.6	30,350	30,470	30,590	30,710	30,830	30,950	31,070	31,190	31,310	31,430	31,540	31,660	31,770	31,890	32,000	32,120	32,230	32,350	32,460	32,570	32,690	9.6
9.8	30,510	30,630	30,750	30,870	30,990	31,110	31,220	31,340	31,460	31,580	31,690	31,810	31,930	32,040	32,160	32,270	32,380	32,500	32,610	32,730	32,840	9.8
10.0	30,620	30,740	30,860	30,980	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	32,600	32,720	32,830	32,940	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1060 to 1080
TAILWATER 932 to 933.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	990	1,000	1,010	1,020	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1.0*
1.0	1,980	2,000	2,020	2,040	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	2,360	2,370	1.0
1.2	2,370	2,400	2,420	2,450	2,470	2,500	2,520	2,550	2,570	2,600	2,620	2,640	2,670	2,690	2,710	2,740	2,760	2,780	2,800	2,830	2,850	1.2
1.4	2,720	2,750	2,780	2,810	2,840	2,870	2,890	2,920	2,950	2,980	3,010	3,030	3,060	3,090	3,110	3,140	3,170	3,190	3,220	3,240	3,270	1.4
1.6	3,040	3,070	3,100	3,140	3,170	3,200	3,230	3,270	3,300	3,330	3,360	3,390	3,420	3,450	3,480	3,510	3,540	3,570	3,590	3,620	3,650	1.6
1.8	3,360	3,400	3,440	3,470	3,510	3,550	3,580	3,620	3,650	3,690	3,720	3,750	3,790	3,820	3,850	3,880	3,920	3,950	3,980	4,010	4,040	1.8
2.0	3,700	3,740	3,780	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	4,410	4,450	2.0
2.2	4,040	4,080	4,130	4,170	4,210	4,260	4,300	4,340	4,380	4,420	4,460	4,500	4,540	4,580	4,620	4,660	4,700	4,740	4,780	4,820	4,850	2.2
2.4	4,370	4,410	4,460	4,510	4,560	4,600	4,650	4,690	4,740	4,780	4,830	4,870	4,910	4,960	5,000	5,040	5,080	5,130	5,170	5,210	5,250	2.4
2.6	4,710	4,760	4,820	4,870	4,920	4,970	5,020	5,060	5,110	5,160	5,210	5,260	5,300	5,350	5,390	5,440	5,490	5,530	5,570	5,620	5,660	2.6
2.8	5,070	5,130	5,180	5,240	5,290	5,350	5,400	5,450	5,500	5,560	5,610	5,660	5,710	5,760	5,810	5,860	5,910	5,950	6,000	6,050	6,100	2.8
3.0	5,430	5,490	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	6,480	6,530	3.0
3.2	5,790	5,860	5,920	5,980	6,050	6,110	6,170	6,230	6,290	6,350	6,410	6,460	6,520	6,580	6,630	6,690	6,750	6,800	6,860	6,910	6,960	3.2
3.4	6,150	6,220	6,280	6,350	6,420	6,480	6,540	6,610	6,670	6,730	6,800	6,860	6,920	6,980	7,040	7,100	7,160	7,220	7,270	7,330	7,390	3.4
3.6	6,510	6,580	6,650	6,720	6,790	6,860	6,930	6,990	7,060	7,130	7,190	7,260	7,320	7,390	7,450	7,510	7,570	7,640	7,700	7,760	7,820	3.6
3.8	6,880	6,950	7,030	7,100	7,180	7,250	7,320	7,390	7,460	7,530	7,600	7,670	7,740	7,810	7,870	7,940	8,010	8,070	8,140	8,200	8,270	3.8
4.0	7,260	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	8,650	8,720	4.0
4.2	7,640	7,720	7,810	7,890	7,970	8,050	8,130	8,210	8,290	8,370	8,440	8,520	8,600	8,670	8,750	8,820	8,890	8,960	9,040	9,110	9,180	4.2
4.4	8,020	8,110	8,200	8,290	8,370	8,460	8,540	8,630	8,710	8,790	8,870	8,950	9,030	9,110	9,190	9,260	9,340	9,420	9,490	9,570	9,640	4.4
4.6	8,420	8,520	8,610	8,700	8,790	8,880	8,970	9,050	9,140	9,230	9,310	9,400	9,480	9,560	9,640	9,730	9,810	9,890	9,970	10,040	10,120	4.6
4.8	8,830	8,930	9,030	9,120	9,220	9,310	9,400	9,500	9,590	9,680	9,770	9,850	9,940	10,030	10,110	10,200	10,280	10,370	10,450	10,530	10,620	4.8
5.0	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	11,030	11,120	5.0
5.2	9,660	9,770	9,870	9,980	10,080	10,190	10,290	10,390	10,490	10,590	10,680	10,780	10,880	10,970	11,070	11,160	11,250	11,350	11,440	11,530	11,620	5.2
5.4	10,080	10,190	10,300	10,410	10,520	10,630	10,730	10,840	10,940	11,050	11,150	11,250	11,350	11,450	11,550	11,650	11,750	11,840	11,940	12,030	12,130	5.4
5.6	10,500	10,620	10,740	10,850	10,970	11,080	11,190	11,300	11,410	11,520	11,630	11,730	11,840	11,940	12,050	12,150	12,250	12,350	12,450	12,550	12,650	5.6
5.8	10,940	11,070	11,190	11,310	11,430	11,540	11,660	11,780	11,890	12,000	12,120	12,230	12,340	12,450	12,560	12,660	12,770	12,880	12,980	13,080	13,190	5.8
6.0	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	13,740	6.0
6.2	11,850	11,990	12,120	12,250	12,380	12,510	12,640	12,760	12,890	13,010	13,130	13,260	13,380	13,500	13,610	13,730	13,850	13,960	14,080	14,190	14,300	6.2
6.4	12,320	12,460	12,600	12,730	12,870	13,010	13,140	13,270	13,400	13,530	13,660	13,780	13,910	14,030	14,160	14,280	14,400	14,520	14,640	14,760	14,880	6.4
6.6	12,790	12,940	13,080	13,230	13,370	13,510	13,650	13,780	13,920	14,050	14,190	14,320	14,450	14,580	14,710	14,840	14,960	15,090	15,210	15,340	15,460	6.6
6.8	13,270	13,420	13,570	13,720	13,870	14,010	14,160	14,300	14,440	14,580	14,720	14,860	15,000	15,130	15,270	15,400	15,530	15,660	15,790	15,920	16,050	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,020	17,230	17,430	17,630	17,820	18,020	18,210	18,400	18,590	18,770	18,960	19,140	19,320	19,500	19,680	19,850	20,030	20,200	20,370	20,540	20,710	8.6
8.8	17,260	17,460	17,670	17,870	18,060	18,260	18,450	18,640	18,830	19,020	19,210	19,390	19,570	19,750	19,930	20,110	20,290	20,460	20,630	20,800	20,970	8.8
9.0	17,440	17,640	17,840	18,040	18,240	18,440	18,630	18,820	19,010	19,200	19,390	19,570	19,760	19,940	20,120	20,290	20,470	20,640	20,820	20,990	21,160	9.0
9.2	17,610	17,810	18,020	18,220	18,410	18,610	18,800	19,000	19,190	19,370	19,560	19,740	19,930	20,110	20,290	20,470	20,640	20,820	20,990	21,160	21,330	9.2
9.4	17,780	17,990	18,190	18,390	18,580	18,780	18,970	19,170	19,360	19,540	19,730	19,910	20,100	20,280	20,460	20,640	20,810	20,990	21,160	21,330	21,500	9.4
9.6	17,940	18,150	18,350	18,550	18,750	18,940	19,140	19,330	19,520	19,700	19,890	20,070	20,260	20,440	20,620	20,790	20,970	21,140	21,320	21,490	21,660	9.6
9.8	18,090	18,300	18,500	18,700	18,890	19,090	19,280	19,470	19,660	19,850	20,030	20,210	20,400	20,580	20,750	20,930	21,110	21,280	21,450	21,630	21,800	9.8
10.0	18,230	18,430	18,630	18,820	19,020	19,210	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	21,740	21,910	10.0

HEADWATER 980 to 1000
TAILWATER 934 to 935.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,190	1,200	1,210	1,210	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1,330	1,340	1,350	1,360	1.0*
1.0	2,370	2,390	2,410	2,430	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	2,670	2,680	2,700	2,710	1.0
1.2	2,850	2,870	2,890	2,910	2,930	2,960	2,980	3,000	3,020	3,040	3,060	3,080	3,100	3,120	3,140	3,160	3,180	3,200	3,220	3,240	3,260	1.2
1.4	3,270	3,290	3,320	3,340	3,370	3,390	3,420	3,440	3,460	3,490	3,510	3,530	3,560	3,580	3,600	3,630	3,650	3,670	3,690	3,710	3,740	1.4
1.6	3,650	3,680	3,710	3,730	3,760	3,790	3,820	3,840	3,870	3,900	3,920	3,950	3,970	4,000	4,030	4,050	4,080	4,100	4,130	4,150	4,180	1.6
1.8	4,040	4,070	4,100	4,140	4,170	4,200	4,230	4,260	4,280	4,310	4,340	4,370	4,400	4,430	4,460	4,490	4,510	4,540	4,570	4,600	4,620	1.8
2.0	4,450	4,480	4,520	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	5,000	5,030	5,060	5,090	2.0
2.2	4,850	4,890	4,930	4,960	5,000	5,040	5,070	5,110	5,140	5,180	5,210	5,250	5,280	5,320	5,350	5,380	5,420	5,450	5,480	5,520	5,550	2.2
2.4	5,250	5,290	5,330	5,370	5,410	5,450	5,480	5,520	5,560	5,600	5,640	5,670	5,710	5,750	5,790	5,820	5,860	5,890	5,930	5,970	6,000	2.4
2.6	5,660	5,710	5,750	5,790	5,830	5,880	5,920	5,960	6,000	6,040	6,080	6,120	6,160	6,200	6,240	6,280	6,320	6,360	6,400	6,440	6,480	2.6
2.8	6,100	6,140	6,190	6,230	6,280	6,330	6,370	6,420	6,460	6,500	6,550	6,590	6,630	6,680	6,720	6,760	6,800	6,850	6,890	6,930	6,970	2.8
3.0	6,530	6,580	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	7,340	7,380	7,430	7,470	3.0
3.2	6,960	7,020	7,070	7,120	7,170	7,230	7,280	7,330	7,380	7,430	7,480	7,530	7,580	7,630	7,680	7,720	7,770	7,820	7,870	7,920	7,960	3.2
3.4	7,390	7,450	7,500	7,560	7,610	7,670	7,720	7,780	7,830	7,880	7,940	7,990	8,040	8,090	8,150	8,200	8,250	8,300	8,350	8,400	8,450	3.4
3.6	7,820	7,880	7,940	8,000	8,060	8,110	8,170	8,230	8,290	8,340	8,400	8,450	8,510	8,570	8,620	8,670	8,730	8,780	8,840	8,890	8,940	3.6
3.8	8,270	8,330	8,390	8,450	8,520	8,580	8,640	8,700	8,760	8,820	8,880	8,940	9,000	9,050	9,110	9,170	9,230	9,280	9,340	9,400	9,450	3.8
4.0	8,720	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	9,800	9,860	9,920	9,970	4.0
4.2	9,180	9,250	9,320	9,390	9,460	9,530	9,590	9,660	9,730	9,790	9,860	9,930	9,990	10,060	10,120	10,180	10,250	10,310	10,370	10,430	10,500	4.2
4.4	9,640	9,720	9,790	9,860	9,940	10,010	10,080	10,150	10,220	10,290	10,360	10,430	10,500	10,560	10,630	10,700	10,760	10,830	10,900	10,960	11,030	4.4
4.6	10,120	10,200	10,280	10,350	10,430	10,500	10,580	10,650	10,730	10,800	10,870	10,950	11,020	11,090	11,160	11,230	11,300	11,370	11,440	11,510	11,580	4.6
4.8	10,620	10,700	10,780	10,860	10,940	11,020	11,100	11,170	11,250	11,330	11,400	11,480	11,550	11,630	11,700	11,780	11,850	11,920	12,000	12,070	12,140	4.8
5.0	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	12,490	12,570	12,640	12,720	5.0
5.2	11,620	11,710	11,800	11,880	11,970	12,060	12,140	12,230	12,310	12,400	12,480	12,570	12,650	12,730	12,810	12,890	12,970	13,050	13,130	13,210	13,290	5.2
5.4	12,130	12,220	12,310	12,410	12,500	12,590	12,680	12,770	12,860	12,940	13,030	13,120	13,210	13,290	13,380	13,460	13,550	13,630	13,710	13,800	13,880	5.4
5.6	12,650	12,750	12,840	12,940	13,040	13,130	13,230	13,320	13,410	13,500	13,600	13,690	13,780	13,870	13,960	14,050	14,130	14,220	14,310	14,400	14,480	5.6
5.8	13,190	13,290	13,390	13,490	13,590	13,690	13,790	13,890	13,980	14,080	14,180	14,270	14,370	14,460	14,550	14,650	14,740	14,830	14,920	15,010	15,100	5.8
6.0	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	15,550	15,650	15,740	6.0
6.2	14,300	14,410	14,530	14,640	14,740	14,850	14,960	15,070	15,170	15,280	15,380	15,490	15,590	15,690	15,790	15,900	16,000	16,100	16,200	16,290	16,390	6.2
6.4	14,880	14,990	15,110	15,220	15,340	15,450	15,560	15,670	15,790	15,900	16,000	16,110	16,220	16,330	16,430	16,540	16,640	16,750	16,850	16,950	17,060	6.4
6.6	15,460	15,580	15,700	15,820	15,940	16,060	16,170	16,290	16,410	16,520	16,630	16,750	16,860	16,970	17,080	17,190	17,300	17,410	17,520	17,620	17,730	6.6
6.8	16,050	16,170	16,300	16,420	16,550	16,670	16,790	16,910	17,030	17,150	17,270	17,390	17,500	17,620	17,740	17,850	17,960	18,080	18,190	18,300	18,410	6.8
7.0	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	18,980	19,090	7.0
7.2	17,220	17,360	17,500	17,630	17,760	17,900	18,030	18,160	18,290	18,420	18,540	18,670	18,800	18,920	19,050	19,170	19,290	19,420	19,540	19,660	19,780	7.2
7.4	17,800	17,950	18,090	18,230	18,360	18,500	18,640	18,770	18,910	19,040	19,170	19,310	19,440	19,570	19,700	19,820	19,950	20,080	20,200	20,330	20,450	7.4
7.6	18,370	18,520	18,670	18,810	18,950	19,100	19,240	19,380	19,520	19,650	19,790	19,930	20,060	20,200	20,330	20,460	20,600	20,730	20,860	20,990	21,110	7.6
7.8	18,920	19,070	19,220	19,370	19,520	19,670	19,810	19,960	20,100	20,240	20,390	20,530	20,670	20,800	20,940	21,080	21,220	21,350	21,490	21,620	21,750	7.8
8.0	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	22,340	8.0
8.2	19,900	20,060	20,220	20,380	20,540	20,690	20,850	21,000	21,150	21,300	21,450	21,600	21,750	21,900	22,040	22,190	22,330	22,470	22,620	22,760	22,900	8.2
8.4	20,350	20,510	20,680	20,840	21,000	21,160	21,320	21,470	21,630	21,780	21,940	22,090	22,240	22,390	22,540	22,690	22,840	22,990	23,130	23,280	23,420	8.4
8.6	20,710	20,880	21,050	21,210	21,370	21,540	21,700	21,860	22,020	22,170	22,330	22,480	22,640	22,790	22,940	23,100	23,250	23,390	23,540	23,690	23,840	8.6
8.8	20,970	21,140	21,310	21,480	21,640	21,800	21,970	22,130	22,290	22,450	22,600	22,760	22,910	23,070	23,220	23,370	23,530	23,680	23,830	23,970	24,120	8.8
9.0	21,160	21,330	21,500	21,660	21,830	21,990	22,150	22,320	22,480	22,640	22,790	22,950	23,110	23,260	23,420	23,570	23,720	23,870	24,020	24,170	24,320	9.0
9.2	21,330	21,500	21,670	21,840	22,000	22,170	22,330	22,490	22,650	22,810	22,970	23,130	23,280	23,440	23,590	23,750	23,900	24,050	24,200	24,350	24,500	9.2
9.4	21,500	21,670	21,840	22,010	22,170	22,340	22,500	22,660	22,820	22,980	23,140	23,300	23,450	23,610	23,760	23,920	24,070	24,220	24,370	24,520	24,670	9.4
9.6	21,660	21,830	22,000	22,160	22,330	22,490	22,660	22,820	22,980	23,140	23,300	23,450	23,610	23,770	23,920	24,070	24,230	24,380	24,530	24,680	24,820	9.6
9.8	21,800	21,960	22,130	22,300	22,460	22,630	22,790	22,950	23,110	23,270	23,430	23,580	23,740	23,900	24,050	24,200	24,350	24,510	24,660	24,800	24,950	9.8
10.0	21,910	22,070	22,240	22,410	22,570	22,730	22,890	23,050	23,210	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	24,600	24,750	24,900	25,050	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1000 to 1020
TAILWATER 934 to 935.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1,360	1,370	1,370	1,380	1,390	1,400	1,400	1,410	1,420	1,430	1,440	1,440	1,450	1,460	1,470	1,470	1,480	1,490	1,490	1,500	1,510	1.0*
1.0	2,710	2,730	2,750	2,760	2,780	2,790	2,810	2,820	2,840	2,860	2,870	2,890	2,900	2,920	2,930	2,940	2,960	2,970	2,990	3,000	3,020	1.0
1.2	3,260	3,280	3,300	3,310	3,330	3,350	3,370	3,390	3,410	3,430	3,440	3,460	3,480	3,500	3,520	3,530	3,550	3,570	3,590	3,600	3,620	1.2
1.4	3,740	3,760	3,780	3,800	3,820	3,850	3,870	3,890	3,910	3,930	3,950	3,970	3,990	4,010	4,030	4,050	4,070	4,090	4,110	4,130	4,150	1.4
1.6	4,180	4,200	4,220	4,250	4,270	4,300	4,320	4,340	4,370	4,390	4,410	4,440	4,460	4,480	4,510	4,530	4,550	4,570	4,600	4,620	4,640	1.6
1.8	4,620	4,650	4,680	4,700	4,730	4,760	4,780	4,810	4,840	4,860	4,890	4,910	4,940	4,960	4,990	5,010	5,040	5,060	5,090	5,110	5,140	1.8
2.0	5,090	5,120	5,150	5,180	5,210	5,230	5,260	5,290	5,320	5,350	5,380	5,410	5,430	5,460	5,490	5,520	5,540	5,570	5,600	5,630	5,650	2.0
2.2	5,550	5,580	5,610	5,650	5,680	5,710	5,740	5,770	5,800	5,840	5,870	5,900	5,930	5,960	5,990	6,020	6,050	6,080	6,110	6,140	6,170	2.2
2.4	6,000	6,040	6,070	6,110	6,140	6,170	6,210	6,240	6,280	6,310	6,340	6,380	6,410	6,440	6,480	6,510	6,540	6,570	6,610	6,640	6,670	2.4
2.6	6,480	6,510	6,550	6,590	6,630	6,660	6,700	6,740	6,770	6,810	6,850	6,880	6,920	6,950	6,990	7,020	7,060	7,090	7,130	7,160	7,200	2.6
2.8	6,970	7,010	7,050	7,090	7,130	7,170	7,210	7,250	7,290	7,330	7,370	7,410	7,450	7,480	7,520	7,560	7,600	7,640	7,670	7,710	7,750	2.8
3.0	7,470	7,510	7,560	7,600	7,640	7,690	7,730	7,770	7,810	7,850	7,900	7,940	7,980	8,020	8,060	8,100	8,140	8,180	8,220	8,260	8,300	3.0
3.2	7,960	8,010	8,060	8,100	8,150	8,190	8,240	8,280	8,330	8,370	8,420	8,460	8,510	8,550	8,590	8,640	8,680	8,720	8,770	8,810	8,850	3.2
3.4	8,450	8,500	8,550	8,600	8,650	8,690	8,740	8,790	8,840	8,890	8,930	8,980	9,030	9,070	9,120	9,160	9,210	9,260	9,300	9,350	9,390	3.4
3.6	8,940	8,990	9,050	9,100	9,150	9,200	9,250	9,300	9,350	9,400	9,450	9,500	9,550	9,600	9,650	9,700	9,750	9,790	9,840	9,890	9,940	3.6
3.8	9,450	9,510	9,560	9,620	9,670	9,730	9,780	9,830	9,890	9,940	9,990	10,050	10,100	10,150	10,200	10,250	10,300	10,350	10,400	10,460	10,510	3.8
4.0	9,970	10,030	10,090	10,150	10,210	10,260	10,320	10,380	10,430	10,490	10,540	10,600	10,650	10,710	10,760	10,820	10,870	10,930	10,980	11,030	11,090	4.0
4.2	10,500	10,560	10,620	10,680	10,740	10,800	10,860	10,920	10,980	11,040	11,100	11,160	11,210	11,270	11,330	11,390	11,440	11,500	11,550	11,610	11,670	4.2
4.4	11,030	11,090	11,160	11,220	11,280	11,350	11,410	11,470	11,530	11,600	11,660	11,720	11,780	11,840	11,900	11,960	12,020	12,080	12,140	12,200	12,260	4.4
4.6	11,580	11,640	11,710	11,780	11,840	11,910	11,980	12,040	12,110	12,170	12,240	12,300	12,370	12,430	12,490	12,560	12,620	12,680	12,740	12,800	12,870	4.6
4.8	12,140	12,210	12,280	12,350	12,420	12,490	12,560	12,630	12,700	12,770	12,830	12,900	12,970	13,040	13,100	13,170	13,230	13,300	13,360	13,430	13,490	4.8
5.0	12,720	12,790	12,870	12,940	13,010	13,090	13,160	13,230	13,300	13,370	13,440	13,510	13,590	13,650	13,720	13,790	13,860	13,930	14,000	14,070	14,130	5.0
5.2	13,290	13,370	13,450	13,520	13,600	13,680	13,750	13,830	13,900	13,980	14,050	14,130	14,200	14,270	14,350	14,420	14,490	14,560	14,630	14,700	14,780	5.2
5.4	13,880	13,960	14,040	14,120	14,200	14,280	14,360	14,440	14,520	14,600	14,680	14,750	14,830	14,910	14,980	15,060	15,130	15,210	15,280	15,360	15,430	5.4
5.6	14,480	14,570	14,650	14,740	14,820	14,900	14,990	15,070	15,150	15,230	15,320	15,400	15,480	15,560	15,640	15,720	15,790	15,870	15,950	16,030	16,110	5.6
5.8	15,100	15,190	15,280	15,370	15,460	15,540	15,630	15,720	15,800	15,890	15,970	16,060	16,140	16,230	16,310	16,390	16,470	16,560	16,640	16,720	16,800	5.8
6.0	15,740	15,830	15,930	16,020	16,110	16,200	16,290	16,380	16,470	16,560	16,650	16,740	16,830	16,910	17,000	17,090	17,170	17,260	17,340	17,430	17,510	6.0
6.2	16,390	16,490	16,590	16,680	16,780	16,870	16,970	17,060	17,160	17,250	17,340	17,440	17,530	17,620	17,710	17,800	17,890	17,980	18,070	18,160	18,240	6.2
6.4	17,060	17,160	17,260	17,360	17,460	17,560	17,660	17,760	17,850	17,950	18,050	18,140	18,240	18,340	18,430	18,520	18,620	18,710	18,800	18,900	18,990	6.4
6.6	17,730	17,840	17,940	18,050	18,150	18,250	18,360	18,460	18,560	18,660	18,760	18,860	18,960	19,060	19,160	19,260	19,360	19,450	19,550	19,650	19,740	6.6
6.8	18,410	18,520	18,630	18,740	18,850	18,960	19,060	19,170	19,280	19,380	19,490	19,590	19,690	19,800	19,900	20,000	20,100	20,210	20,310	20,410	20,510	6.8
7.0	19,090	19,210	19,320	19,440	19,550	19,660	19,770	19,880	19,990	20,100	20,210	20,320	20,430	20,540	20,640	20,750	20,850	20,960	21,060	21,170	21,270	7.0
7.2	19,780	19,900	20,010	20,130	20,250	20,370	20,480	20,600	20,710	20,820	20,940	21,050	21,160	21,270	21,380	21,490	21,600	21,710	21,820	21,930	22,040	7.2
7.4	20,450	20,580	20,700	20,820	20,940	21,060	21,180	21,300	21,420	21,540	21,650	21,770	21,890	22,000	22,120	22,230	22,350	22,460	22,570	22,680	22,790	7.4
7.6	21,110	21,240	21,370	21,490	21,620	21,750	21,870	21,990	22,120	22,240	22,360	22,480	22,600	22,720	22,840	22,960	23,070	23,190	23,310	23,420	23,540	7.6
7.8	21,750	21,880	22,010	22,140	22,270	22,400	22,530	22,660	22,790	22,910	23,040	23,160	23,280	23,410	23,530	23,650	23,770	23,890	24,020	24,130	24,250	7.8
8.0	22,340	22,480	22,610	22,750	22,880	23,010	23,140	23,280	23,410	23,540	23,660	23,790	23,920	24,050	24,170	24,300	24,420	24,550	24,670	24,800	24,920	8.0
8.2	22,900	23,040	23,180	23,310	23,450	23,590	23,720	23,860	23,990	24,120	24,260	24,390	24,520	24,650	24,780	24,910	25,040	25,160	25,290	25,420	25,540	8.2
8.4	23,420	23,560	23,710	23,850	23,990	24,130	24,270	24,400	24,540	24,680	24,810	24,950	25,080	25,220	25,350	25,480	25,610	25,740	25,870	26,000	26,130	8.4
8.6	23,840	23,980	24,130	24,270	24,410	24,560	24,700	24,840	24,980	25,120	25,250	25,390	25,530	25,660	25,800	25,930	26,070	26,200	26,330	26,470	26,600	8.6
8.8	24,120	24,270	24,410	24,560	24,700	24,850	24,990	25,130	25,270	25,410	25,550	25,690	25,830	25,960	26,100	26,240	26,370	26,510	26,640	26,770	26,900	8.8
9.0	24,320	24,470	24,610	24,760	24,900	25,050	25,190	25,330	25,470	25,610	25,750	25,890	26,030	26,170	26,300	26,440	26,580	26,710	26,850	26,980	27,110	9.0
9.2	24,500	24,650	24,790	24,940	25,080	25,230	25,370	25,510	25,650	25,800	25,940	26,080	26,210	26,350	26,490	26,630	26,760	26,900	27,030	27,170	27,300	9.2
9.4	24,670	24,820	24,960	25,110	25,260	25,400	25,540	25,690	25,830	25,970	26,110	26,250	26,390	26,530	26,660	26,800	26,940	27,070	27,210	27,340	27,470	9.4
9.6	24,820	24,970	25,120	25,270	25,410	25,560	25,700	25,840	25,980	26,120	26,260	26,400	26,540	26,680	26,820	26,960	27,090	27,230	27,360	27,500	27,630	9.6
9.8	24,950	25,100	25,250	25,390	25,540	25,680	25,830	25,970	26,110	26,250	26,390	26,530	26,670	26,810	26,940	27,080	27,220	27,350	27,490	27,620	27,750	9.8
10.0	25,050	25,200	25,340	25,490	25,630	25,780	25,920	26,060	26,200	26,340	26,480	26,620	26,760	26,900	27,030	27,170	27,310	27,440	27,570	27,710	27,840	10.0

HEADWATER 1020 to 1040
TAILWATER 934 to 935.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,510	1,520	1,520	1,530	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1,640	1,650	1.0*
1.0	3,020	3,030	3,050	3,060	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	3,280	3,290	1.0
1.2	3,620	3,640	3,650	3,670	3,690	3,710	3,720	3,740	3,760	3,770	3,790	3,800	3,820	3,840	3,850	3,870	3,890	3,900	3,920	3,930	3,950	1.2
1.4	4,150	4,170	4,190	4,210	4,230	4,250	4,270	4,290	4,310	4,330	4,350	4,370	4,380	4,400	4,420	4,440	4,460	4,480	4,500	4,510	4,530	1.4
1.6	4,640	4,660	4,680	4,710	4,730	4,750	4,770	4,790	4,810	4,840	4,860	4,880	4,900	4,920	4,940	4,960	4,980	5,000	5,020	5,040	5,060	1.6
1.8	5,140	5,160	5,190	5,210	5,240	5,260	5,280	5,310	5,330	5,350	5,380	5,400	5,420	5,450	5,470	5,490	5,520	5,540	5,560	5,580	5,610	1.8
2.0	5,650	5,680	5,710	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	6,140	6,170	2.0
2.2	6,170	6,200	6,230	6,260	6,280	6,310	6,340	6,370	6,400	6,430	6,450	6,480	6,510	6,540	6,570	6,590	6,620	6,650	6,680	6,700	6,730	2.2
2.4	6,670	6,700	6,730	6,760	6,800	6,830	6,860	6,890	6,920	6,950	6,980	7,010	7,040	7,070	7,100	7,130	7,160	7,190	7,220	7,250	7,280	2.4
2.6	7,200	7,230	7,270	7,300	7,330	7,370	7,400	7,430	7,470	7,500	7,530	7,560	7,600	7,630	7,660	7,690	7,730	7,760	7,790	7,820	7,850	2.6
2.8	7,750	7,780	7,820	7,860	7,890	7,930	7,970	8,000	8,040	8,070	8,110	8,140	8,180	8,210	8,250	8,280	8,320	8,350	8,390	8,420	8,450	2.8
3.0	8,300	8,340	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	9,020	9,060	3.0
3.2	8,850	8,890	8,930	8,980	9,020	9,060	9,100	9,140	9,180	9,220	9,260	9,300	9,340	9,380	9,420	9,460	9,500	9,540	9,580	9,620	9,660	3.2
3.4	9,390	9,440	9,480	9,520	9,570	9,610	9,660	9,700	9,740	9,790	9,830	9,870	9,910	9,960	10,000	10,040	10,080	10,120	10,160	10,210	10,250	3.4
3.6	9,940	9,990	10,030	10,080	10,130	10,170	10,220	10,260	10,310	10,360	10,400	10,450	10,490	10,540	10,580	10,620	10,670	10,710	10,760	10,800	10,840	3.6
3.8	10,510	10,560	10,610	10,650	10,700	10,750	10,800	10,850	10,900	10,950	10,990	11,040	11,090	11,140	11,180	11,230	11,280	11,320	11,370	11,420	11,460	3.8
4.0	11,090	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	12,050	12,100	4.0
4.2	11,670	11,720	11,780	11,830	11,890	11,940	12,000	12,050	12,100	12,160	12,210	12,260	12,320	12,370	12,420	12,470	12,520	12,580	12,630	12,680	12,730	4.2
4.4	12,260	12,310	12,370	12,430	12,490	12,540	12,600	12,660	12,710	12,770	12,830	12,880	12,940	12,990	13,050	13,100	13,160	13,210	13,270	13,320	13,370	4.4
4.6	12,870	12,930	12,990	13,050	13,110	13,170	13,230	13,290	13,350	13,410	13,460	13,520	13,580	13,640	13,700	13,750	13,810	13,870	13,920	13,980	14,040	4.6
4.8	13,490	13,560	13,620	13,680	13,750	13,810	13,870	13,940	14,000	14,060	14,120	14,180	14,240	14,300	14,360	14,420	14,480	14,540	14,600	14,660	14,720	4.8
5.0	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	15,360	15,420	5.0
5.2	14,780	14,850	14,920	14,990	15,050	15,120	15,190	15,260	15,330	15,400	15,460	15,530	15,600	15,660	15,730	15,800	15,860	15,930	15,990	16,060	16,120	5.2
5.4	15,430	15,510	15,580	15,650	15,720	15,800	15,870	15,940	16,010	16,080	16,150	16,220	16,290	16,360	16,430	16,500	16,570	16,640	16,710	16,770	16,840	5.4
5.6	16,110	16,180	16,260	16,340	16,410	16,490	16,560	16,640	16,710	16,790	16,860	16,930	17,010	17,080	17,150	17,220	17,300	17,370	17,440	17,510	17,580	5.6
5.8	16,800	16,880	16,960	17,040	17,120	17,200	17,280	17,360	17,430	17,510	17,590	17,670	17,740	17,820	17,890	17,970	18,040	18,120	18,190	18,270	18,340	5.8
6.0	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	19,120	6.0
6.2	18,240	18,330	18,420	18,510	18,590	18,680	18,760	18,850	18,930	19,020	19,100	19,190	19,270	19,350	19,440	19,520	19,600	19,680	19,760	19,840	19,920	6.2
6.4	18,990	19,080	19,170	19,260	19,350	19,440	19,530	19,620	19,710	19,800	19,880	19,970	20,060	20,140	20,230	20,320	20,400	20,490	20,570	20,660	20,740	6.4
6.6	19,740	19,840	19,930	20,030	20,120	20,210	20,310	20,400	20,490	20,580	20,680	20,770	20,860	20,950	21,040	21,130	21,220	21,300	21,390	21,480	21,570	6.6
6.8	20,510	20,600	20,700	20,800	20,900	21,000	21,090	21,190	21,290	21,380	21,480	21,570	21,660	21,760	21,850	21,950	22,040	22,130	22,220	22,310	22,400	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,600	26,730	26,860	26,990	27,120	27,240	27,370	27,500	27,620	27,750	27,870	28,000	28,120	28,250	28,370	28,490	28,610	28,740	28,860	28,980	29,100	8.6
8.8	26,900	27,040	27,170	27,300	27,430	27,560	27,690	27,810	27,940	28,070	28,190	28,320	28,440	28,570	28,690	28,820	28,940	29,060	29,180	29,300	29,430	8.8
9.0	27,110	27,240	27,380	27,510	27,640	27,770	27,900	28,020	28,150	28,280	28,410	28,530	28,660	28,780	28,910	29,030	29,150	29,280	29,400	29,520	29,640	9.0
9.2	27,300	27,430	27,560	27,690	27,820	27,950	28,080	28,210	28,340	28,470	28,600	28,720	28,850	28,970	29,100	29,220	29,350	29,470	29,590	29,720	29,840	9.2
9.4	27,470	27,610	27,740	27,870	28,000	28,130	28,260	28,390	28,520	28,650	28,770	28,900	29,030	29,150	29,280	29,400	29,530	29,650	29,770	29,900	30,020	9.4
9.6	27,630	27,760	27,890	28,030	28,160	28,290	28,420	28,550	28,680	28,800	28,930	29,060	29,180	29,310	29,430	29,560	29,680	29,810	29,930	30,050	30,180	9.6
9.8	27,750	27,890	28,020	28,150	28,280	28,410	28,540	28,670	28,800	28,930	29,050	29,180	29,310	29,430	29,560	29,680	29,810	29,930	30,050	30,170	30,300	9.8
10.0	27,840	27,970	28,110	28,240	28,370	28,500	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	30,260	30,380	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1040 to 1060
TAILWATER 934 to 935.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,650	1,650	1,660	1,670	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1,770	1,770	1.0*
1.0	3,290	3,310	3,320	3,330	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	3,530	3,550	1.0
1.2	3,950	3,970	3,980	4,000	4,010	4,030	4,040	4,060	4,070	4,090	4,100	4,120	4,140	4,150	4,170	4,180	4,190	4,210	4,220	4,240	4,250	1.2
1.4	4,530	4,550	4,570	4,590	4,600	4,620	4,640	4,660	4,670	4,690	4,710	4,730	4,740	4,760	4,780	4,800	4,810	4,830	4,850	4,860	4,880	1.4
1.6	5,060	5,080	5,100	5,120	5,140	5,160	5,180	5,200	5,220	5,240	5,260	5,280	5,300	5,320	5,340	5,360	5,380	5,400	5,420	5,430	5,450	1.6
1.8	5,610	5,630	5,650	5,670	5,700	5,720	5,740	5,760	5,780	5,810	5,830	5,850	5,870	5,890	5,910	5,930	5,950	5,980	6,000	6,020	6,040	1.8
2.0	6,170	6,190	6,220	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	6,620	6,640	2.0
2.2	6,730	6,760	6,780	6,810	6,840	6,860	6,890	6,920	6,940	6,970	6,990	7,020	7,050	7,070	7,100	7,120	7,150	7,170	7,200	7,220	7,250	2.2
2.4	7,280	7,310	7,340	7,360	7,390	7,420	7,450	7,480	7,510	7,530	7,560	7,590	7,620	7,650	7,670	7,700	7,730	7,760	7,780	7,810	7,840	2.4
2.6	7,850	7,880	7,910	7,950	7,980	8,010	8,040	8,070	8,100	8,130	8,160	8,190	8,220	8,250	8,280	8,310	8,340	8,370	8,400	8,430	8,460	2.6
2.8	8,450	8,490	8,520	8,550	8,590	8,620	8,650	8,690	8,720	8,750	8,780	8,820	8,850	8,880	8,910	8,950	8,980	9,010	9,040	9,070	9,100	2.8
3.0	9,060	9,090	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	9,720	9,760	3.0
3.2	9,660	9,690	9,730	9,770	9,810	9,850	9,890	9,920	9,960	10,000	10,040	10,070	10,110	10,150	10,180	10,220	10,260	10,290	10,330	10,360	10,400	3.2
3.4	10,250	10,290	10,330	10,370	10,410	10,450	10,490	10,530	10,570	10,610	10,650	10,690	10,730	10,770	10,810	10,840	10,880	10,920	10,960	11,000	11,040	3.4
3.6	10,840	10,890	10,930	10,970	11,020	11,060	11,100	11,140	11,180	11,230	11,270	11,310	11,350	11,390	11,430	11,480	11,520	11,560	11,600	11,640	11,680	3.6
3.8	11,460	11,510	11,550	11,600	11,640	11,690	11,730	11,780	11,820	11,870	11,910	11,960	12,000	12,040	12,090	12,130	12,170	12,220	12,260	12,300	12,350	3.8
4.0	12,100	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	12,980	13,030	4.0
4.2	12,730	12,780	12,830	12,880	12,930	12,980	13,030	13,080	13,130	13,180	13,230	13,280	13,330	13,370	13,420	13,470	13,520	13,570	13,610	13,660	13,710	4.2
4.4	13,370	13,430	13,480	13,530	13,580	13,640	13,690	13,740	13,790	13,850	13,900	13,950	14,000	14,050	14,100	14,150	14,200	14,250	14,300	14,350	14,400	4.4
4.6	14,040	14,090	14,150	14,210	14,260	14,320	14,370	14,430	14,480	14,530	14,590	14,640	14,700	14,750	14,800	14,860	14,910	14,960	15,010	15,070	15,120	4.6
4.8	14,720	14,780	14,840	14,900	14,960	15,010	15,070	15,130	15,190	15,240	15,300	15,360	15,410	15,470	15,520	15,580	15,640	15,690	15,750	15,800	15,860	4.8
5.0	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	16,550	16,610	5.0
5.2	16,120	16,190	16,250	16,320	16,380	16,440	16,510	16,570	16,630	16,690	16,760	16,820	16,880	16,940	17,000	17,070	17,130	17,190	17,250	17,310	17,370	5.2
5.4	16,840	16,910	16,980	17,040	17,110	17,180	17,240	17,310	17,370	17,440	17,510	17,570	17,630	17,700	17,760	17,830	17,890	17,950	18,020	18,080	18,140	5.4
5.6	17,580	17,650	17,720	17,790	17,860	17,930	18,000	18,070	18,140	18,210	18,270	18,340	18,410	18,480	18,540	18,610	18,680	18,740	18,810	18,880	18,940	5.6
5.8	18,340	18,420	18,490	18,560	18,640	18,710	18,780	18,850	18,920	19,000	19,070	19,140	19,210	19,280	19,350	19,420	19,490	19,560	19,630	19,700	19,760	5.8
6.0	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	20,610	6.0
6.2	19,920	20,000	20,080	20,160	20,240	20,320	20,400	20,480	20,560	20,640	20,710	20,790	20,870	20,940	21,020	21,100	21,170	21,250	21,320	21,400	21,470	6.2
6.4	20,740	20,820	20,910	20,990	21,070	21,160	21,240	21,320	21,400	21,480	21,560	21,640	21,720	21,800	21,880	21,960	22,040	22,120	22,200	22,280	22,360	6.4
6.6	21,570	21,660	21,740	21,830	21,910	22,000	22,090	22,170	22,260	22,340	22,420	22,510	22,590	22,680	22,760	22,840	22,920	23,010	23,090	23,170	23,250	6.6
6.8	22,400	22,500	22,590	22,680	22,770	22,850	22,940	23,030	23,120	23,210	23,300	23,380	23,470	23,560	23,640	23,730	23,810	23,900	23,990	24,070	24,150	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,100	29,220	29,330	29,450	29,570	29,690	29,810	29,920	30,040	30,150	30,270	30,380	30,500	30,610	30,730	30,840	30,950	31,060	31,170	31,290	31,400	8.6
8.8	29,430	29,550	29,670	29,790	29,900	30,020	30,140	30,260	30,380	30,490	30,610	30,720	30,840	30,950	31,070	31,180	31,300	31,410	31,520	31,630	31,750	8.8
9.0	29,640	29,760	29,880	30,000	30,120	30,240	30,360	30,480	30,600	30,710	30,830	30,950	31,060	31,180	31,290	31,410	31,520	31,640	31,750	31,860	31,970	9.0
9.2	29,840	29,960	30,080	30,200	30,320	30,440	30,560	30,680	30,790	30,910	31,030	31,140	31,260	31,380	31,490	31,610	31,720	31,840	31,950	32,060	32,180	9.2
9.4	30,020	30,140	30,260	30,380	30,500	30,620	30,740	30,860	30,980	31,090	31,210	31,330	31,450	31,560	31,680	31,790	31,910	32,020	32,140	32,250	32,360	9.4
9.6	30,180	30,300	30,420	30,540	30,660	30,780	30,900	31,020	31,130	31,250	31,370	31,490	31,600	31,720	31,840	31,950	32,070	32,180	32,290	32,410	32,520	9.6
9.8	30,300	30,420	30,540	30,660	30,780	30,900	31,020	31,140	31,260	31,370	31,490	31,610	31,720	31,840	31,960	32,070	32,190	32,300	32,420	32,530	32,640	9.8
10.0	30,380	30,500	30,620	30,740	30,860	30,980	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	32,600	32,720	10.0

HEADWATER 1060 to 1080
TAILWATER 934 to 935.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	970	980	990	1,000	1,010	1,020	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1,160	1,170	1.0*
1.0	1,930	1,950	1,980	2,000	2,020	2,040	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	2,320	2,340	1.0
1.2	2,320	2,340	2,370	2,400	2,420	2,450	2,470	2,500	2,520	2,550	2,570	2,600	2,620	2,640	2,670	2,690	2,710	2,740	2,760	2,780	2,800	1.2
1.4	2,660	2,690	2,720	2,750	2,780	2,810	2,840	2,870	2,890	2,920	2,950	2,980	3,010	3,030	3,060	3,090	3,110	3,140	3,170	3,190	3,220	1.4
1.6	2,970	3,000	3,040	3,070	3,100	3,140	3,170	3,200	3,230	3,270	3,300	3,330	3,360	3,390	3,420	3,450	3,480	3,510	3,540	3,570	3,590	1.6
1.8	3,290	3,330	3,360	3,400	3,440	3,470	3,510	3,550	3,580	3,620	3,650	3,690	3,720	3,750	3,790	3,820	3,850	3,880	3,920	3,950	3,980	1.8
2.0	3,620	3,660	3,700	3,740	3,780	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	4,340	4,380	2.0
2.2	3,950	3,990	4,040	4,080	4,130	4,170	4,210	4,260	4,300	4,340	4,380	4,420	4,460	4,500	4,540	4,580	4,620	4,660	4,700	4,740	4,780	2.2
2.4	4,270	4,320	4,370	4,410	4,460	4,510	4,560	4,600	4,650	4,690	4,740	4,780	4,830	4,870	4,910	4,960	5,000	5,040	5,080	5,130	5,170	2.4
2.6	4,610	4,660	4,710	4,760	4,820	4,870	4,920	4,970	5,020	5,060	5,110	5,160	5,210	5,260	5,300	5,350	5,390	5,440	5,490	5,530	5,570	2.6
2.8	4,960	5,020	5,070	5,130	5,180	5,240	5,290	5,350	5,400	5,450	5,500	5,560	5,610	5,660	5,710	5,760	5,810	5,860	5,910	5,950	6,000	2.8
3.0	5,310	5,370	5,430	5,490	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	6,380	6,430	3.0
3.2	5,660	5,730	5,790	5,860	5,920	5,980	6,050	6,110	6,170	6,230	6,290	6,350	6,410	6,460	6,520	6,580	6,630	6,690	6,750	6,800	6,860	3.2
3.4	6,010	6,080	6,150	6,220	6,280	6,350	6,420	6,480	6,540	6,610	6,670	6,730	6,800	6,860	6,920	6,980	7,040	7,100	7,160	7,220	7,270	3.4
3.6	6,360	6,430	6,510	6,580	6,650	6,720	6,790	6,860	6,930	6,990	7,060	7,130	7,190	7,260	7,320	7,390	7,450	7,510	7,570	7,640	7,700	3.6
3.8	6,720	6,800	6,880	6,950	7,030	7,100	7,180	7,250	7,320	7,390	7,460	7,530	7,600	7,670	7,740	7,810	7,870	7,940	8,010	8,070	8,140	3.8
4.0	7,090	7,180	7,260	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	8,520	8,590	4.0
4.2	7,470	7,550	7,640	7,720	7,810	7,890	7,970	8,050	8,130	8,210	8,290	8,370	8,440	8,520	8,600	8,670	8,750	8,820	8,890	8,960	9,040	4.2
4.4	7,840	7,930	8,020	8,110	8,200	8,290	8,370	8,460	8,540	8,630	8,710	8,790	8,870	8,950	9,030	9,110	9,190	9,260	9,340	9,420	9,490	4.4
4.6	8,230	8,330	8,420	8,520	8,610	8,700	8,790	8,880	8,970	9,050	9,140	9,230	9,310	9,400	9,480	9,560	9,640	9,730	9,810	9,890	9,970	4.6
4.8	8,630	8,730	8,830	8,930	9,030	9,120	9,220	9,310	9,400	9,500	9,590	9,680	9,770	9,850	9,940	10,030	10,110	10,200	10,280	10,370	10,450	4.8
5.0	9,050	9,150	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	10,860	10,950	5.0
5.2	9,460	9,570	9,680	9,790	9,890	10,000	10,100	10,210	10,310	10,410	10,510	10,610	10,700	10,800	10,900	10,990	11,090	11,180	11,270	11,360	11,460	5.2
5.4	9,890	10,010	10,120	10,230	10,340	10,450	10,560	10,670	10,780	10,880	10,980	11,090	11,190	11,290	11,390	11,490	11,590	11,690	11,780	11,880	11,980	5.4
5.6	10,340	10,460	10,570	10,690	10,810	10,920	11,030	11,150	11,260	11,370	11,480	11,580	11,690	11,800	11,900	12,000	12,110	12,210	12,310	12,410	12,510	5.6
5.8	10,790	10,920	11,040	11,160	11,280	11,400	11,520	11,640	11,750	11,870	11,980	12,090	12,210	12,320	12,430	12,530	12,640	12,750	12,850	12,960	13,060	5.8
6.0	11,260	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	13,520	13,630	6.0
6.2	11,740	11,880	12,010	12,150	12,280	12,410	12,530	12,660	12,790	12,910	13,040	13,160	13,280	13,400	13,520	13,640	13,750	13,870	13,990	14,100	14,210	6.2
6.4	12,230	12,370	12,510	12,650	12,790	12,920	13,060	13,190	13,320	13,450	13,580	13,710	13,840	13,960	14,080	14,210	14,330	14,450	14,570	14,690	14,810	6.4
6.6	12,730	12,880	13,020	13,170	13,310	13,450	13,590	13,730	13,870	14,000	14,130	14,270	14,400	14,530	14,660	14,790	14,910	15,040	15,160	15,290	15,410	6.6
6.8	13,240	13,390	13,540	13,690	13,840	13,980	14,130	14,270	14,410	14,560	14,690	14,830	14,970	15,110	15,240	15,370	15,500	15,640	15,760	15,890	16,020	6.8
7.0	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	16,500	16,640	7.0
7.2	14,220	14,380	14,550	14,710	14,870	15,030	15,180	15,340	15,490	15,640	15,790	15,940	16,090	16,240	16,380	16,520	16,670	16,810	16,950	17,090	17,220	7.2
7.4	14,690	14,860	15,030	15,200	15,360	15,530	15,690	15,850	16,010	16,160	16,320	16,480	16,630	16,780	16,930	17,080	17,230	17,370	17,520	17,660	17,800	7.4
7.6	15,150	15,320	15,500	15,670	15,840	16,010	16,180	16,350	16,510	16,680	16,840	17,000	17,160	17,310	17,470	17,620	17,780	17,930	18,080	18,230	18,370	7.6
7.8	15,580	15,770	15,950	16,130	16,310	16,480	16,660	16,830	17,000	17,170	17,330	17,500	17,660	17,820	17,990	18,140	18,300	18,460	18,610	18,770	18,920	7.8
8.0	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	19,430	8.0
8.2	16,370	16,560	16,760	16,950	17,130	17,320	17,500	17,690	17,870	18,040	18,220	18,400	18,570	18,740	18,910	19,080	19,250	19,410	19,580	19,740	19,900	8.2
8.4	16,720	16,920	17,120	17,310	17,510	17,700	17,890	18,070	18,260	18,440	18,620	18,800	18,980	19,160	19,330	19,500	19,680	19,850	20,020	20,180	20,350	8.4
8.6	17,000	17,200	17,400	17,600	17,800	17,990	18,180	18,370	18,560	18,750	18,930	19,120	19,300	19,480	19,660	19,830	20,010	20,180	20,350	20,520	20,690	8.6
8.8	17,180	17,380	17,590	17,790	17,980	18,180	18,380	18,570	18,760	18,950	19,130	19,320	19,500	19,680	19,860	20,040	20,220	20,390	20,560	20,740	20,910	8.8
9.0	17,300	17,510	17,710	17,910	18,110	18,310	18,500	18,700	18,890	19,080	19,260	19,450	19,630	19,820	20,000	20,170	20,350	20,530	20,700	20,870	21,050	9.0
9.2	17,420	17,620	17,830	18,030	18,230	18,430	18,620	18,820	19,010	19,200	19,390	19,570	19,760	19,940	20,120	20,300	20,480	20,650	20,830	21,000	21,170	9.2
9.4	17,530	17,740	17,940	18,150	18,350	18,550	18,740	18,940	19,130	19,320	19,510	19,690	19,880	20,060	20,240	20,420	20,600	20,780	20,950	21,130	21,300	9.4
9.6	17,640	17,850	18,050	18,260	18,460	18,660	18,850	19,050	19,240	19,430	19,620	19,800	19,990	20,170	20,350	20,530	20,710	20,890	21,060	21,240	21,410	9.6
9.8	17,740	17,940	18,150	18,350	18,550	18,750	18,940	19,140	19,330	19,520	19,710	19,900	20,080	20,260	20,440	20,620	20,800	20,980	21,150	21,330	21,500	9.8
10.0	17,820	18,020	18,230	18,430	18,630	18,820	19,020	19,210	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	21,390	21,570	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 980 to 1000
TAILWATER 936 to 937.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1, 170	1, 180	1, 190	1, 200	1, 210	1, 210	1, 220	1, 230	1, 240	1, 250	1, 260	1, 270	1, 280	1, 280	1, 290	1, 300	1, 310	1, 320	1, 330	1, 330	1, 340	1.0*
1.0	2, 340	2, 360	2, 370	2, 390	2, 410	2, 430	2, 450	2, 460	2, 480	2, 500	2, 520	2, 530	2, 550	2, 570	2, 580	2, 600	2, 620	2, 630	2, 650	2, 670	2, 680	1.0
1.2	2, 800	2, 830	2, 850	2, 870	2, 890	2, 910	2, 930	2, 960	2, 980	3, 000	3, 020	3, 040	3, 060	3, 080	3, 100	3, 120	3, 140	3, 160	3, 180	3, 200	3, 220	1.2
1.4	3, 220	3, 240	3, 270	3, 290	3, 320	3, 340	3, 370	3, 390	3, 420	3, 440	3, 460	3, 490	3, 510	3, 530	3, 560	3, 580	3, 600	3, 630	3, 650	3, 670	3, 690	1.4
1.6	3, 590	3, 620	3, 650	3, 680	3, 710	3, 730	3, 760	3, 790	3, 820	3, 840	3, 870	3, 900	3, 920	3, 950	3, 970	4, 000	4, 030	4, 050	4, 080	4, 100	4, 130	1.6
1.8	3, 980	4, 010	4, 040	4, 070	4, 100	4, 140	4, 170	4, 200	4, 230	4, 260	4, 280	4, 310	4, 340	4, 370	4, 400	4, 430	4, 460	4, 490	4, 510	4, 540	4, 570	1.8
2.0	4, 380	4, 410	4, 450	4, 480	4, 520	4, 550	4, 580	4, 620	4, 650	4, 680	4, 710	4, 750	4, 780	4, 810	4, 840	4, 870	4, 900	4, 930	4, 970	5, 000	5, 030	2.0
2.2	4, 780	4, 820	4, 850	4, 890	4, 930	4, 960	5, 000	5, 040	5, 070	5, 110	5, 140	5, 180	5, 210	5, 250	5, 280	5, 320	5, 350	5, 380	5, 420	5, 450	5, 480	2.2
2.4	5, 170	5, 210	5, 250	5, 290	5, 330	5, 370	5, 410	5, 450	5, 480	5, 520	5, 560	5, 600	5, 640	5, 670	5, 710	5, 750	5, 790	5, 820	5, 860	5, 890	5, 930	2.4
2.6	5, 570	5, 620	5, 660	5, 710	5, 750	5, 790	5, 830	5, 880	5, 920	5, 960	6, 000	6, 040	6, 080	6, 120	6, 160	6, 200	6, 240	6, 280	6, 320	6, 360	6, 400	2.6
2.8	6, 000	6, 050	6, 100	6, 140	6, 190	6, 230	6, 280	6, 330	6, 370	6, 420	6, 460	6, 500	6, 550	6, 590	6, 630	6, 680	6, 720	6, 760	6, 800	6, 850	6, 890	2.8
3.0	6, 430	6, 480	6, 530	6, 580	6, 630	6, 680	6, 730	6, 780	6, 830	6, 870	6, 920	6, 970	7, 020	7, 060	7, 110	7, 150	7, 200	7, 250	7, 290	7, 340	7, 380	3.0
3.2	6, 860	6, 910	6, 960	7, 020	7, 070	7, 120	7, 170	7, 230	7, 280	7, 330	7, 380	7, 430	7, 480	7, 530	7, 580	7, 630	7, 680	7, 720	7, 770	7, 820	7, 870	3.2
3.4	7, 270	7, 330	7, 390	7, 450	7, 500	7, 560	7, 610	7, 670	7, 720	7, 780	7, 830	7, 880	7, 940	7, 990	8, 040	8, 090	8, 150	8, 200	8, 250	8, 300	8, 350	3.4
3.6	7, 700	7, 760	7, 820	7, 880	7, 940	8, 000	8, 060	8, 110	8, 170	8, 230	8, 290	8, 340	8, 400	8, 450	8, 510	8, 570	8, 620	8, 670	8, 730	8, 780	8, 840	3.6
3.8	8, 140	8, 200	8, 270	8, 330	8, 390	8, 450	8, 520	8, 580	8, 640	8, 700	8, 760	8, 820	8, 880	8, 940	9, 000	9, 050	9, 110	9, 170	9, 230	9, 280	9, 340	3.8
4.0	8, 590	8, 650	8, 720	8, 790	8, 860	8, 920	8, 990	9, 050	9, 120	9, 180	9, 240	9, 310	9, 370	9, 430	9, 490	9, 550	9, 620	9, 680	9, 740	9, 800	9, 860	4.0
4.2	9, 040	9, 110	9, 180	9, 250	9, 320	9, 390	9, 460	9, 530	9, 590	9, 660	9, 730	9, 790	9, 860	9, 930	9, 990	10, 060	10, 120	10, 180	10, 250	10, 310	10, 370	4.2
4.4	9, 490	9, 570	9, 640	9, 720	9, 790	9, 860	9, 940	10, 010	10, 080	10, 150	10, 220	10, 290	10, 360	10, 430	10, 500	10, 560	10, 630	10, 700	10, 760	10, 830	10, 900	4.4
4.6	9, 970	10, 040	10, 120	10, 200	10, 280	10, 350	10, 430	10, 500	10, 580	10, 650	10, 730	10, 800	10, 870	10, 950	11, 020	11, 090	11, 160	11, 230	11, 300	11, 370	11, 440	4.6
4.8	10, 450	10, 530	10, 620	10, 700	10, 780	10, 860	10, 940	11, 020	11, 100	11, 170	11, 250	11, 330	11, 400	11, 480	11, 550	11, 630	11, 700	11, 780	11, 850	11, 920	12, 000	4.8
5.0	10, 950	11, 030	11, 120	11, 210	11, 290	11, 370	11, 460	11, 540	11, 620	11, 700	11, 790	11, 870	11, 950	12, 020	12, 100	12, 180	12, 260	12, 340	12, 410	12, 490	12, 570	5.0
5.2	11, 460	11, 550	11, 640	11, 730	11, 810	11, 900	11, 990	12, 080	12, 160	12, 250	12, 330	12, 420	12, 500	12, 580	12, 660	12, 750	12, 830	12, 910	12, 990	13, 070	13, 150	5.2
5.4	11, 980	12, 070	12, 160	12, 260	12, 350	12, 440	12, 530	12, 620	12, 710	12, 800	12, 890	12, 980	13, 070	13, 150	13, 240	13, 330	13, 410	13, 500	13, 580	13, 660	13, 750	5.4
5.6	12, 510	12, 610	12, 710	12, 810	12, 900	13, 000	13, 090	13, 190	13, 280	13, 380	13, 470	13, 560	13, 650	13, 740	13, 830	13, 920	14, 010	14, 100	14, 190	14, 270	14, 360	5.6
5.8	13, 060	13, 170	13, 270	13, 370	13, 470	13, 570	13, 670	13, 770	13, 870	13, 970	14, 060	14, 160	14, 250	14, 350	14, 440	14, 540	14, 630	14, 720	14, 810	14, 900	14, 990	5.8
6.0	13, 630	13, 740	13, 850	13, 950	14, 060	14, 160	14, 270	14, 370	14, 470	14, 570	14, 670	14, 770	14, 870	14, 970	15, 070	15, 170	15, 260	15, 360	15, 460	15, 550	15, 650	6.0
6.2	14, 210	14, 330	14, 440	14, 550	14, 660	14, 770	14, 870	14, 980	15, 090	15, 190	15, 300	15, 400	15, 510	15, 610	15, 710	15, 810	15, 920	16, 020	16, 120	16, 220	16, 310	6.2
6.4	14, 810	14, 920	15, 040	15, 160	15, 270	15, 380	15, 500	15, 610	15, 720	15, 830	15, 940	16, 050	16, 160	16, 260	16, 370	16, 480	16, 580	16, 690	16, 790	16, 890	17, 000	6.4
6.6	15, 410	15, 530	15, 650	15, 770	15, 890	16, 010	16, 130	16, 240	16, 360	16, 470	16, 590	16, 700	16, 810	16, 930	17, 040	17, 150	17, 260	17, 370	17, 470	17, 580	17, 690	6.6
6.8	16, 020	16, 150	16, 270	16, 400	16, 520	16, 640	16, 770	16, 890	17, 010	17, 130	17, 250	17, 360	17, 480	17, 600	17, 710	17, 830	17, 940	18, 050	18, 170	18, 280	18, 390	6.8
7.0	16, 640	16, 770	16, 900	17, 030	17, 160	17, 280	17, 410	17, 540	17, 660	17, 780	17, 910	18, 030	18, 150	18, 270	18, 390	18, 510	18, 630	18, 750	18, 860	18, 980	19, 090	7.0
7.2	17, 220	17, 360	17, 500	17, 630	17, 760	17, 900	18, 030	18, 160	18, 290	18, 420	18, 540	18, 670	18, 800	18, 920	19, 050	19, 170	19, 290	19, 420	19, 540	19, 660	19, 780	7.2
7.4	17, 800	17, 950	18, 090	18, 230	18, 360	18, 500	18, 640	18, 770	18, 910	19, 040	19, 170	19, 310	19, 440	19, 570	19, 700	19, 820	19, 950	20, 080	20, 200	20, 330	20, 450	7.4
7.6	18, 370	18, 520	18, 670	18, 810	18, 950	19, 100	19, 240	19, 380	19, 520	19, 650	19, 790	19, 930	20, 060	20, 200	20, 330	20, 460	20, 600	20, 730	20, 860	20, 990	21, 110	7.6
7.8	18, 920	19, 070	19, 220	19, 370	19, 520	19, 670	19, 810	19, 960	20, 100	20, 240	20, 390	20, 530	20, 670	20, 800	20, 940	21, 080	21, 220	21, 350	21, 490	21, 620	21, 750	7.8
8.0	19, 430	19, 580	19, 740	19, 890	20, 040	20, 190	20, 350	20, 490	20, 640	20, 790	20, 930	21, 080	21, 220	21, 370	21, 510	21, 650	21, 790	21, 930	22, 070	22, 200	22, 340	8.0
8.2	19, 900	20, 060	20, 220	20, 380	20, 540	20, 690	20, 850	21, 000	21, 150	21, 300	21, 450	21, 600	21, 750	21, 900	22, 040	22, 190	22, 330	22, 470	22, 620	22, 760	22, 900	8.2
8.4	20, 350	20, 510	20, 680	20, 840	21, 000	21, 160	21, 320	21, 470	21, 630	21, 780	21, 940	22, 090	22, 240	22, 390	22, 540	22, 690	22, 840	22, 990	23, 130	23, 280	23, 420	8.4
8.6	20, 690	20, 860	21, 020	21, 190	21, 350	21, 510	21, 680	21, 840	21, 990	22, 150	22, 310	22, 460	22, 620	22, 770	22, 920	23, 080	23, 230	23, 380	23, 520	23, 670	23, 820	8.6
8.8	20, 910	21, 070	21, 240	21, 410	21, 570	21, 740	21, 900	22, 060	22, 220	22, 380	22, 540	22, 700	22, 850	23, 010	23, 160	23, 310	23, 470	23, 620	23, 770	23, 920	24, 060	8.8
9.0	21, 050	21, 220	21, 380	21, 550	21, 720	21, 880	22, 050	22, 210	22, 370	22, 530	22, 690	22, 850	23, 000	23, 160	23, 310	23, 470	23, 620	23, 770	23, 920	24, 070	24, 220	9.0
9.2	21, 170	21, 340	21, 510	21, 680	21, 850	22, 010	22, 180	22, 340	22, 500	22, 660	22, 820	22, 980	23, 140	23, 290	23, 450	23, 600	23, 760	23, 910	24, 060	24, 210	24, 360	9.2
9.4	21, 300	21, 470	21, 640	21, 810	21, 970	22, 140	22, 300	22, 470	22, 630	22, 790	22, 950	23, 110	23, 270	23, 420	23, 580	23, 730	23, 890	24, 040	24, 190	24, 340	24, 490	9.4
9.6	21, 410	21, 580	21, 750	21, 920	22, 090	22, 250	22, 420	22, 580	22, 740	22, 900	23, 060	23, 220	23, 380	23, 540	23, 690	23, 850	24, 000	24, 150	24, 310	24, 460	24, 610	9.6
9.8	21, 500	21, 670	21, 840	22, 010	22, 180	22, 340	22, 510	22, 670	22, 830	22, 990	23, 150	23, 310	23, 470	23, 630	23, 780	23, 940	24, 090	24, 240	24, 390	24, 550	24, 700	9.8
10.0	21, 570	21, 740	21, 910	22, 070	22, 240	22, 410	22, 570	22, 730	22, 890	23, 050	23, 210	23, 370	23, 530	23, 690	23, 840	24, 000	24, 150	24, 300	24, 450	24, 600	24, 750	10.0

HEADWATER 1000 to 1020
TAILWATER 936 to 937.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1,340	1,350	1,360	1,370	1,370	1,380	1,390	1,400	1,400	1,410	1,420	1,430	1,440	1,440	1,450	1,460	1,470	1,470	1,480	1,490	1,490	1.0*
1.0	2,680	2,700	2,710	2,730	2,750	2,760	2,780	2,790	2,810	2,820	2,840	2,860	2,870	2,890	2,900	2,920	2,930	2,940	2,960	2,970	2,990	1.0
1.2	3,220	3,240	3,260	3,280	3,300	3,310	3,330	3,350	3,370	3,390	3,410	3,430	3,440	3,460	3,480	3,500	3,520	3,530	3,550	3,570	3,590	1.2
1.4	3,690	3,710	3,740	3,760	3,780	3,800	3,820	3,850	3,870	3,890	3,910	3,930	3,950	3,970	3,990	4,010	4,030	4,050	4,070	4,090	4,110	1.4
1.6	4,130	4,150	4,180	4,200	4,220	4,250	4,270	4,300	4,320	4,340	4,370	4,390	4,410	4,440	4,460	4,480	4,510	4,530	4,550	4,570	4,600	1.6
1.8	4,570	4,600	4,620	4,650	4,680	4,700	4,730	4,760	4,780	4,810	4,840	4,860	4,890	4,910	4,940	4,960	4,990	5,010	5,040	5,060	5,090	1.8
2.0	5,030	5,060	5,090	5,120	5,150	5,180	5,210	5,230	5,260	5,290	5,320	5,350	5,380	5,410	5,430	5,460	5,490	5,520	5,540	5,570	5,600	2.0
2.2	5,480	5,520	5,550	5,580	5,610	5,650	5,680	5,710	5,740	5,770	5,800	5,840	5,870	5,900	5,930	5,960	5,990	6,020	6,050	6,080	6,110	2.2
2.4	5,930	5,970	6,000	6,040	6,070	6,110	6,140	6,170	6,210	6,240	6,280	6,310	6,340	6,380	6,410	6,440	6,480	6,510	6,540	6,570	6,610	2.4
2.6	6,400	6,440	6,480	6,510	6,550	6,590	6,630	6,660	6,700	6,740	6,770	6,810	6,850	6,880	6,920	6,950	6,990	7,020	7,060	7,090	7,130	2.6
2.8	6,890	6,930	6,970	7,010	7,050	7,090	7,130	7,170	7,210	7,250	7,290	7,330	7,370	7,410	7,450	7,480	7,520	7,560	7,600	7,640	7,670	2.8
3.0	7,380	7,430	7,470	7,510	7,560	7,600	7,640	7,690	7,730	7,770	7,810	7,850	7,900	7,940	7,980	8,020	8,060	8,100	8,140	8,180	8,220	3.0
3.2	7,870	7,920	7,960	8,010	8,060	8,100	8,150	8,190	8,240	8,280	8,330	8,370	8,420	8,460	8,510	8,550	8,590	8,640	8,680	8,720	8,770	3.2
3.4	8,350	8,400	8,450	8,500	8,550	8,600	8,650	8,690	8,740	8,790	8,840	8,890	8,930	8,980	9,030	9,070	9,120	9,160	9,210	9,260	9,300	3.4
3.6	8,840	8,890	8,940	8,990	9,050	9,100	9,150	9,200	9,250	9,300	9,350	9,400	9,450	9,500	9,550	9,600	9,650	9,700	9,750	9,790	9,840	3.6
3.8	9,340	9,400	9,450	9,510	9,560	9,620	9,670	9,730	9,780	9,830	9,890	9,940	9,990	10,050	10,100	10,150	10,200	10,250	10,300	10,350	10,400	3.8
4.0	9,860	9,920	9,970	10,030	10,090	10,150	10,210	10,260	10,320	10,380	10,430	10,490	10,540	10,600	10,650	10,710	10,760	10,820	10,870	10,930	10,980	4.0
4.2	10,370	10,430	10,500	10,560	10,620	10,680	10,740	10,800	10,860	10,920	10,980	11,040	11,100	11,160	11,210	11,270	11,330	11,390	11,440	11,500	11,550	4.2
4.4	10,900	10,960	11,030	11,090	11,160	11,220	11,280	11,350	11,410	11,470	11,530	11,600	11,660	11,720	11,780	11,840	11,900	11,960	12,020	12,080	12,140	4.4
4.6	11,440	11,510	11,580	11,640	11,710	11,780	11,840	11,910	11,980	12,040	12,110	12,170	12,240	12,300	12,370	12,430	12,490	12,560	12,620	12,680	12,740	4.6
4.8	12,000	12,070	12,140	12,210	12,280	12,350	12,420	12,490	12,560	12,630	12,700	12,770	12,830	12,900	12,970	13,040	13,100	13,170	13,230	13,300	13,360	4.8
5.0	12,570	12,640	12,720	12,790	12,870	12,940	13,010	13,090	13,160	13,230	13,300	13,370	13,440	13,510	13,590	13,650	13,720	13,790	13,860	13,930	14,000	5.0
5.2	13,150	13,230	13,310	13,380	13,460	13,540	13,620	13,690	13,770	13,840	13,920	13,990	14,070	14,140	14,210	14,290	14,360	14,430	14,500	14,580	14,650	5.2
5.4	13,750	13,830	13,910	13,990	14,070	14,150	14,230	14,310	14,390	14,470	14,550	14,630	14,710	14,780	14,860	14,940	15,010	15,090	15,160	15,240	15,310	5.4
5.6	14,360	14,450	14,530	14,620	14,700	14,790	14,870	14,950	15,040	15,120	15,200	15,280	15,360	15,440	15,520	15,600	15,680	15,760	15,840	15,920	16,000	5.6
5.8	14,990	15,080	15,170	15,260	15,350	15,440	15,530	15,610	15,700	15,790	15,870	15,960	16,040	16,130	16,210	16,290	16,380	16,460	16,540	16,620	16,700	5.8
6.0	15,650	15,740	15,830	15,930	16,020	16,110	16,200	16,290	16,380	16,470	16,560	16,650	16,740	16,830	16,910	17,000	17,090	17,170	17,260	17,340	17,430	6.0
6.2	16,310	16,410	16,510	16,610	16,700	16,800	16,890	16,990	17,080	17,180	17,270	17,360	17,450	17,550	17,640	17,730	17,820	17,910	18,000	18,090	18,170	6.2
6.4	17,000	17,100	17,200	17,300	17,400	17,500	17,600	17,700	17,800	17,890	17,990	18,090	18,180	18,280	18,370	18,470	18,560	18,660	18,750	18,840	18,930	6.4
6.6	17,690	17,790	17,900	18,010	18,110	18,210	18,320	18,420	18,520	18,620	18,720	18,820	18,920	19,020	19,120	19,220	19,320	19,420	19,510	19,610	19,700	6.6
6.8	18,390	18,500	18,610	18,720	18,830	18,940	19,040	19,150	19,260	19,360	19,470	19,570	19,670	19,780	19,880	19,980	20,080	20,180	20,290	20,390	20,490	6.8
7.0	19,090	19,210	19,320	19,440	19,550	19,660	19,770	19,880	19,990	20,100	20,210	20,320	20,430	20,540	20,640	20,750	20,850	20,960	21,060	21,170	21,270	7.0
7.2	19,780	19,900	20,010	20,130	20,250	20,370	20,480	20,600	20,710	20,820	20,940	21,050	21,160	21,270	21,380	21,490	21,600	21,710	21,820	21,930	22,040	7.2
7.4	20,450	20,580	20,700	20,820	20,940	21,060	21,180	21,300	21,420	21,540	21,650	21,770	21,890	22,000	22,120	22,230	22,350	22,460	22,570	22,680	22,790	7.4
7.6	21,110	21,240	21,370	21,490	21,620	21,750	21,870	21,990	22,120	22,240	22,360	22,480	22,600	22,720	22,840	22,960	23,070	23,190	23,310	23,420	23,540	7.6
7.8	21,750	21,880	22,010	22,140	22,270	22,400	22,530	22,660	22,790	22,910	23,040	23,160	23,280	23,410	23,530	23,650	23,770	23,890	24,020	24,130	24,250	7.8
8.0	22,340	22,480	22,610	22,750	22,880	23,010	23,140	23,280	23,410	23,540	23,660	23,790	23,920	24,050	24,170	24,300	24,420	24,550	24,670	24,800	24,920	8.0
8.2	22,900	23,040	23,180	23,310	23,450	23,590	23,720	23,860	23,990	24,120	24,260	24,390	24,520	24,650	24,780	24,910	25,040	25,160	25,290	25,420	25,540	8.2
8.4	23,420	23,560	23,710	23,850	23,990	24,130	24,270	24,400	24,540	24,680	24,810	24,950	25,080	25,220	25,350	25,480	25,610	25,740	25,870	26,000	26,130	8.4
8.6	23,820	23,960	24,110	24,250	24,400	24,540	24,680	24,820	24,960	25,100	25,240	25,370	25,510	25,650	25,780	25,920	26,050	26,180	26,320	26,450	26,580	8.6
8.8	24,060	24,210	24,360	24,500	24,650	24,790	24,930	25,070	25,220	25,360	25,500	25,630	25,770	25,910	26,050	26,180	26,320	26,450	26,590	26,720	26,850	8.8
9.0	24,220	24,370	24,510	24,660	24,810	24,950	25,090	25,240	25,380	25,520	25,660	25,800	25,940	26,080	26,210	26,350	26,490	26,620	26,760	26,890	27,020	9.0
9.2	24,360	24,510	24,660	24,800	24,950	25,090	25,240	25,380	25,520	25,660	25,810	25,950	26,080	26,220	26,360	26,500	26,630	26,770	26,910	27,040	27,170	9.2
9.4	24,490	24,640	24,790	24,940	25,080	25,230	25,370	25,520	25,660	25,800	25,940	26,080	26,220	26,360	26,500	26,640	26,770	26,910	27,050	27,180	27,310	9.4
9.6	24,610	24,760	24,900	25,050	25,200	25,340	25,490	25,630	25,770	25,920	26,060	26,200	26,340	26,480	26,620	26,760	26,890	27,030	27,160	27,300	27,430	9.6
9.8	24,700	24,840	24,990	25,140	25,290	25,430	25,580	25,720	25,860	26,010	26,150	26,290	26,430	26,570	26,710	26,840	26,980	27,120	27,250	27,390	27,520	9.8
10.0	24,750	24,900	25,050	25,200	25,340	25,490	25,630	25,780	25,920	26,060	26,200	26,340	26,480	26,620	26,760	26,900	27,030	27,170	27,310	27,440	27,570	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1020 to 1040
TAILWATER 936 to 937.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,490	1,500	1,510	1,520	1,520	1,530	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1,630	1,630	1.0*
1.0	2,990	3,000	3,020	3,030	3,050	3,060	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	3,250	3,270	1.0
1.2	3,590	3,600	3,620	3,640	3,650	3,670	3,690	3,710	3,720	3,740	3,760	3,770	3,790	3,800	3,820	3,840	3,850	3,870	3,890	3,900	3,920	1.2
1.4	4,110	4,130	4,150	4,170	4,190	4,210	4,230	4,250	4,270	4,290	4,310	4,330	4,350	4,370	4,380	4,400	4,420	4,440	4,460	4,480	4,500	1.4
1.6	4,600	4,620	4,640	4,660	4,680	4,710	4,730	4,750	4,770	4,790	4,810	4,840	4,860	4,880	4,900	4,920	4,940	4,960	4,980	5,000	5,020	1.6
1.8	5,090	5,110	5,140	5,160	5,190	5,210	5,240	5,260	5,280	5,310	5,330	5,350	5,380	5,400	5,420	5,450	5,470	5,490	5,520	5,540	5,560	1.8
2.0	5,600	5,630	5,650	5,680	5,710	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	6,090	6,120	2.0
2.2	6,110	6,140	6,170	6,200	6,230	6,260	6,280	6,310	6,340	6,370	6,400	6,430	6,450	6,480	6,510	6,540	6,570	6,590	6,620	6,650	6,680	2.2
2.4	6,610	6,640	6,670	6,700	6,730	6,760	6,800	6,830	6,860	6,890	6,920	6,950	6,980	7,010	7,040	7,070	7,100	7,130	7,160	7,190	7,220	2.4
2.6	7,130	7,160	7,200	7,230	7,270	7,300	7,330	7,370	7,400	7,430	7,470	7,500	7,530	7,560	7,600	7,630	7,660	7,690	7,730	7,760	7,790	2.6
2.8	7,670	7,710	7,750	7,780	7,820	7,860	7,890	7,930	7,970	8,000	8,040	8,070	8,110	8,140	8,180	8,210	8,250	8,280	8,320	8,350	8,390	2.8
3.0	8,220	8,260	8,300	8,340	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	8,950	8,980	3.0
3.2	8,770	8,810	8,850	8,890	8,930	8,980	9,020	9,060	9,100	9,140	9,180	9,220	9,260	9,300	9,340	9,380	9,420	9,460	9,500	9,540	9,580	3.2
3.4	9,300	9,350	9,390	9,440	9,480	9,520	9,570	9,610	9,660	9,700	9,740	9,790	9,830	9,870	9,910	9,960	10,000	10,040	10,080	10,120	10,160	3.4
3.6	9,840	9,890	9,940	9,990	10,030	10,080	10,130	10,170	10,220	10,260	10,310	10,360	10,400	10,450	10,490	10,540	10,580	10,620	10,670	10,710	10,760	3.6
3.8	10,400	10,460	10,510	10,560	10,610	10,650	10,700	10,750	10,800	10,850	10,900	10,950	10,990	11,040	11,090	11,140	11,180	11,230	11,280	11,320	11,370	3.8
4.0	10,980	11,030	11,090	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	11,950	12,000	4.0
4.2	11,550	11,610	11,670	11,720	11,780	11,830	11,890	11,940	12,000	12,050	12,100	12,160	12,210	12,260	12,320	12,370	12,420	12,470	12,520	12,580	12,630	4.2
4.4	12,140	12,200	12,260	12,310	12,370	12,430	12,490	12,540	12,600	12,660	12,710	12,770	12,830	12,880	12,940	12,990	13,050	13,100	13,160	13,210	13,270	4.4
4.6	12,740	12,800	12,870	12,930	12,990	13,050	13,110	13,170	13,230	13,290	13,350	13,410	13,460	13,520	13,580	13,640	13,700	13,750	13,810	13,870	13,920	4.6
4.8	13,360	13,430	13,490	13,560	13,620	13,680	13,750	13,810	13,870	13,940	14,000	14,060	14,120	14,180	14,240	14,300	14,360	14,420	14,480	14,540	14,600	4.8
5.0	14,000	14,070	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	15,240	15,300	5.0
5.2	14,650	14,720	14,790	14,860	14,930	15,000	15,070	15,140	15,210	15,270	15,340	15,410	15,480	15,540	15,610	15,680	15,740	15,810	15,880	15,940	16,010	5.2
5.4	15,310	15,390	15,460	15,530	15,610	15,680	15,750	15,830	15,900	15,970	16,040	16,110	16,180	16,250	16,320	16,390	16,460	16,530	16,600	16,670	16,730	5.4
5.6	16,000	16,080	16,150	16,230	16,310	16,380	16,460	16,530	16,610	16,680	16,760	16,830	16,900	16,980	17,050	17,120	17,200	17,270	17,340	17,410	17,480	5.6
5.8	16,700	16,780	16,860	16,950	17,020	17,100	17,180	17,260	17,340	17,420	17,500	17,570	17,650	17,730	17,800	17,880	17,950	18,030	18,100	18,180	18,250	5.8
6.0	17,430	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	18,970	19,050	6.0
6.2	18,170	18,260	18,350	18,440	18,520	18,610	18,700	18,780	18,870	18,950	19,040	19,120	19,200	19,290	19,370	19,450	19,530	19,620	19,700	19,780	19,860	6.2
6.4	18,930	19,020	19,120	19,210	19,300	19,390	19,480	19,570	19,650	19,740	19,830	19,920	20,010	20,090	20,180	20,260	20,350	20,440	20,520	20,610	20,690	6.4
6.6	19,700	19,800	19,900	19,990	20,080	20,180	20,270	20,360	20,460	20,550	20,640	20,730	20,820	20,910	21,000	21,090	21,180	21,270	21,360	21,450	21,530	6.6
6.8	20,490	20,580	20,680	20,780	20,880	20,980	21,070	21,170	21,270	21,360	21,460	21,550	21,650	21,740	21,830	21,930	22,020	22,110	22,200	22,300	22,390	6.8
7.0	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	23,150	23,240	7.0
7.2	22,040	22,140	22,250	22,360	22,460	22,570	22,670	22,770	22,880	22,980	23,080	23,190	23,290	23,390	23,490	23,590	23,690	23,790	23,890	23,990	24,080	7.2
7.4	22,790	22,900	23,020	23,120	23,230	23,340	23,450	23,560	23,670	23,770	23,880	23,980	24,090	24,190	24,300	24,400	24,510	24,610	24,710	24,810	24,920	7.4
7.6	23,540	23,650	23,770	23,880	23,990	24,110	24,220	24,330	24,440	24,550	24,660	24,770	24,880	24,990	25,090	25,200	25,310	25,420	25,520	25,630	25,730	7.6
7.8	24,250	24,370	24,490	24,610	24,720	24,840	24,960	25,070	25,180	25,300	25,410	25,530	25,640	25,750	25,860	25,970	26,080	26,190	26,300	26,410	26,520	7.8
8.0	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	27,250	8.0
8.2	25,540	25,670	25,790	25,920	26,040	26,160	26,290	26,410	26,530	26,650	26,770	26,890	27,010	27,130	27,240	27,360	27,480	27,590	27,710	27,830	27,940	8.2
8.4	26,130	26,260	26,390	26,520	26,640	26,770	26,890	27,020	27,140	27,270	27,390	27,510	27,630	27,750	27,880	28,000	28,120	28,230	28,350	28,470	28,590	8.4
8.6	26,580	26,710	26,840	26,970	27,100	27,230	27,350	27,480	27,610	27,730	27,860	27,980	28,110	28,230	28,350	28,480	28,600	28,720	28,840	28,960	29,080	8.6
8.8	26,850	26,980	27,110	27,250	27,380	27,500	27,630	27,760	27,890	28,020	28,140	28,270	28,390	28,520	28,640	28,770	28,890	29,010	29,130	29,260	29,380	8.8
9.0	27,020	27,160	27,290	27,420	27,550	27,680	27,810	27,940	28,070	28,190	28,320	28,450	28,570	28,700	28,820	28,950	29,070	29,200	29,320	29,440	29,560	9.0
9.2	27,170	27,310	27,440	27,570	27,700	27,830	27,960	28,090	28,220	28,350	28,480	28,600	28,730	28,860	28,980	29,110	29,230	29,350	29,480	29,600	29,720	9.2
9.4	27,310	27,450	27,580	27,710	27,840	27,980	28,110	28,240	28,360	28,490	28,620	28,750	28,880	29,000	29,130	29,250	29,380	29,500	29,630	29,750	29,870	9.4
9.6	27,430	27,570	27,700	27,830	27,970	28,100	28,230	28,360	28,490	28,620	28,740	28,870	29,000	29,120	29,250	29,380	29,500	29,630	29,750	29,870	30,000	9.6
9.8	27,520	27,660	27,790	27,920	28,050	28,180	28,320	28,450	28,580	28,700	28,830	28,960	29,090	29,210	29,340	29,470	29,590	29,710	29,840	29,960	30,080	9.8
10.0	27,570	27,710	27,840	27,970	28,110	28,240	28,370	28,500	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	30,010	30,130	10.0

HEADWATER 1040 to 1060
TAILWATER 936 to 937.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,630	1,640	1,650	1,650	1,660	1,670	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1,750	1,760	1.0*
1.0	3,270	3,280	3,290	3,310	3,320	3,330	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	3,510	3,520	1.0
1.2	3,920	3,930	3,950	3,970	3,980	4,000	4,010	4,030	4,040	4,060	4,070	4,090	4,100	4,120	4,140	4,150	4,170	4,180	4,190	4,210	4,220	1.2
1.4	4,500	4,510	4,530	4,550	4,570	4,590	4,600	4,620	4,640	4,660	4,670	4,690	4,710	4,730	4,740	4,760	4,780	4,800	4,810	4,830	4,850	1.4
1.6	5,020	5,040	5,060	5,080	5,100	5,120	5,140	5,160	5,180	5,200	5,220	5,240	5,260	5,280	5,300	5,320	5,340	5,360	5,380	5,400	5,420	1.6
1.8	5,560	5,580	5,610	5,630	5,650	5,670	5,700	5,720	5,740	5,760	5,780	5,810	5,830	5,850	5,870	5,890	5,910	5,930	5,950	5,980	6,000	1.8
2.0	6,120	6,140	6,170	6,190	6,220	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	6,570	6,600	2.0
2.2	6,680	6,700	6,730	6,760	6,780	6,810	6,840	6,860	6,890	6,920	6,940	6,970	6,990	7,020	7,050	7,070	7,100	7,120	7,150	7,170	7,200	2.2
2.4	7,220	7,250	7,280	7,310	7,340	7,360	7,390	7,420	7,450	7,480	7,510	7,530	7,560	7,590	7,620	7,650	7,670	7,700	7,730	7,760	7,780	2.4
2.6	7,790	7,820	7,850	7,880	7,910	7,950	7,980	8,010	8,040	8,070	8,100	8,130	8,160	8,190	8,220	8,250	8,280	8,310	8,340	8,370	8,400	2.6
2.8	8,390	8,420	8,450	8,490	8,520	8,550	8,590	8,620	8,650	8,690	8,720	8,750	8,780	8,820	8,850	8,880	8,910	8,950	8,980	9,010	9,040	2.8
3.0	8,980	9,020	9,060	9,090	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	9,650	9,690	3.0
3.2	9,580	9,620	9,660	9,690	9,730	9,770	9,810	9,850	9,890	9,920	9,960	10,000	10,040	10,070	10,110	10,150	10,180	10,220	10,260	10,290	10,330	3.2
3.4	10,160	10,210	10,250	10,290	10,330	10,370	10,410	10,450	10,490	10,530	10,570	10,610	10,650	10,690	10,730	10,770	10,810	10,840	10,880	10,920	10,960	3.4
3.6	10,760	10,800	10,840	10,890	10,930	10,970	11,020	11,060	11,100	11,140	11,180	11,230	11,270	11,310	11,350	11,390	11,430	11,480	11,520	11,560	11,600	3.6
3.8	11,370	11,420	11,460	11,510	11,550	11,600	11,640	11,690	11,730	11,780	11,820	11,870	11,910	11,960	12,000	12,040	12,090	12,130	12,170	12,220	12,260	3.8
4.0	12,000	12,050	12,100	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	12,890	12,940	4.0
4.2	12,630	12,680	12,730	12,780	12,830	12,880	12,930	12,980	13,030	13,080	13,130	13,180	13,230	13,280	13,330	13,370	13,420	13,470	13,520	13,570	13,610	4.2
4.4	13,270	13,320	13,370	13,430	13,480	13,530	13,580	13,640	13,690	13,740	13,790	13,850	13,900	13,950	14,000	14,050	14,100	14,150	14,200	14,250	14,300	4.4
4.6	13,920	13,980	14,040	14,090	14,150	14,210	14,260	14,320	14,370	14,430	14,480	14,530	14,590	14,640	14,700	14,750	14,800	14,860	14,910	14,960	15,010	4.6
4.8	14,600	14,660	14,720	14,780	14,840	14,900	14,960	15,010	15,070	15,130	15,190	15,240	15,300	15,360	15,410	15,470	15,520	15,580	15,640	15,690	15,750	4.8
5.0	15,300	15,360	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	16,440	16,490	5.0
5.2	16,010	16,070	16,140	16,200	16,270	16,330	16,390	16,460	16,520	16,580	16,640	16,710	16,770	16,830	16,890	16,950	17,020	17,080	17,140	17,200	17,260	5.2
5.4	16,730	16,800	16,870	16,940	17,000	17,070	17,140	17,200	17,270	17,340	17,400	17,470	17,530	17,600	17,660	17,730	17,790	17,850	17,920	17,980	18,040	5.4
5.6	17,480	17,550	17,620	17,690	17,760	17,830	17,900	17,970	18,040	18,110	18,180	18,250	18,320	18,380	18,450	18,520	18,580	18,650	18,720	18,780	18,850	5.6
5.8	18,250	18,330	18,400	18,470	18,550	18,620	18,690	18,770	18,840	18,910	18,980	19,050	19,120	19,190	19,260	19,330	19,400	19,470	19,540	19,610	19,680	5.8
6.0	19,050	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	20,460	20,540	6.0
6.2	19,860	19,940	20,020	20,100	20,180	20,260	20,340	20,420	20,500	20,570	20,650	20,730	20,810	20,880	20,960	21,040	21,110	21,190	21,260	21,340	21,410	6.2
6.4	20,690	20,770	20,860	20,940	21,020	21,110	21,190	21,270	21,350	21,430	21,510	21,590	21,680	21,760	21,840	21,910	21,990	22,070	22,150	22,230	22,310	6.4
6.6	21,530	21,620	21,710	21,790	21,880	21,970	22,050	22,140	22,220	22,310	22,390	22,480	22,560	22,640	22,730	22,810	22,890	22,970	23,050	23,140	23,220	6.6
6.8	22,390	22,480	22,570	22,660	22,750	22,840	22,930	23,010	23,100	23,190	23,280	23,370	23,450	23,540	23,630	23,710	23,800	23,880	23,970	24,050	24,140	6.8
7.0	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	24,980	25,060	7.0
7.2	24,080	24,180	24,280	24,380	24,470	24,570	24,670	24,760	24,860	24,950	25,050	25,140	25,230	25,330	25,420	25,510	25,610	25,700	25,790	25,880	25,970	7.2
7.4	24,920	25,020	25,120	25,220	25,320	25,420	25,520	25,620	25,720	25,820	25,910	26,010	26,110	26,200	26,300	26,400	26,490	26,590	26,680	26,780	26,870	7.4
7.6	25,730	25,840	25,940	26,050	26,150	26,250	26,360	26,460	26,560	26,660	26,760	26,860	26,970	27,070	27,170	27,260	27,360	27,460	27,560	27,660	27,760	7.6
7.8	26,520	26,630	26,740	26,840	26,950	27,060	27,160	27,270	27,380	27,480	27,580	27,690	27,790	27,900	28,000	28,100	28,200	28,310	28,410	28,510	28,610	7.8
8.0	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	29,400	8.0
8.2	27,940	28,050	28,170	28,280	28,400	28,510	28,620	28,730	28,840	28,950	29,060	29,170	29,280	29,390	29,500	29,610	29,720	29,830	29,930	30,040	30,150	8.2
8.4	28,590	28,710	28,820	28,940	29,060	29,170	29,290	29,400	29,510	29,630	29,740	29,850	29,970	30,080	30,190	30,300	30,410	30,520	30,630	30,740	30,850	8.4
8.6	29,080	29,200	29,320	29,440	29,560	29,670	29,790	29,910	30,020	30,140	30,250	30,370	30,480	30,600	30,710	30,820	30,940	31,050	31,160	31,270	31,380	8.6
8.8	29,380	29,500	29,620	29,740	29,860	29,980	30,090	30,210	30,330	30,450	30,560	30,680	30,790	30,910	31,020	31,140	31,250	31,360	31,480	31,590	31,700	8.8
9.0	29,560	29,680	29,800	29,920	30,040	30,160	30,280	30,400	30,520	30,640	30,750	30,870	30,990	31,100	31,220	31,330	31,450	31,560	31,670	31,790	31,900	9.0
9.2	29,720	29,840	29,970	30,090	30,210	30,330	30,450	30,570	30,680	30,800	30,920	31,040	31,150	31,270	31,380	31,500	31,610	31,730	31,840	31,960	32,070	9.2
9.4	29,870	29,990	30,120	30,240	30,360	30,480	30,600	30,720	30,830	30,950	31,070	31,190	31,310	31,420	31,540	31,650	31,770	31,880	32,000	32,110	32,230	9.4
9.6	30,000	30,120	30,240	30,360	30,480	30,600	30,720	30,840	30,960	31,080	31,200	31,320	31,430	31,550	31,670	31,780	31,900	32,010	32,130	32,240	32,360	9.6
9.8	30,080	30,210	30,330	30,450	30,570	30,690	30,810	30,930	31,050	31,170	31,290	31,410	31,520	31,640	31,760	31,870	31,990	32,100	32,220	32,330	32,450	9.8
10.0	30,130	30,260	30,380	30,500	30,620	30,740	30,860	30,980	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	32,380	32,490	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1060 to 1080
TAILWATER 936 to 937.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	
1.0*	940	950	970	980	990	1,000	1,010	1,020	1,030	1,040	1,050	1,060	1,070	1,080	1,090	1,100	1,110	1,120	1,130	1,140	1,150	1.0*
1.0	1,890	1,910	1,930	1,950	1,980	2,000	2,020	2,040	2,060	2,080	2,100	2,120	2,140	2,160	2,180	2,200	2,220	2,240	2,260	2,280	2,300	1.0
1.2	2,260	2,290	2,320	2,340	2,370	2,400	2,420	2,450	2,470	2,500	2,520	2,550	2,570	2,600	2,620	2,640	2,670	2,690	2,710	2,740	2,760	1.2
1.4	2,600	2,630	2,660	2,690	2,720	2,750	2,780	2,810	2,840	2,870	2,890	2,920	2,950	2,980	3,010	3,030	3,060	3,090	3,110	3,140	3,170	1.4
1.6	2,900	2,940	2,970	3,000	3,040	3,070	3,100	3,140	3,170	3,200	3,230	3,270	3,300	3,330	3,360	3,390	3,420	3,450	3,480	3,510	3,540	1.6
1.8	3,210	3,250	3,290	3,330	3,360	3,400	3,440	3,470	3,510	3,550	3,580	3,620	3,650	3,690	3,720	3,750	3,790	3,820	3,850	3,880	3,920	1.8
2.0	3,530	3,580	3,620	3,660	3,700	3,740	3,780	3,820	3,860	3,900	3,940	3,980	4,020	4,050	4,090	4,130	4,170	4,200	4,240	4,270	4,310	2.0
2.2	3,850	3,900	3,950	3,990	4,040	4,080	4,130	4,170	4,210	4,260	4,300	4,340	4,380	4,420	4,460	4,500	4,540	4,580	4,620	4,660	4,700	2.2
2.4	4,170	4,220	4,270	4,320	4,370	4,410	4,460	4,510	4,560	4,600	4,650	4,690	4,740	4,780	4,830	4,870	4,910	4,960	5,000	5,040	5,080	2.4
2.6	4,500	4,550	4,610	4,660	4,710	4,760	4,820	4,870	4,920	4,970	5,020	5,060	5,110	5,160	5,210	5,260	5,300	5,350	5,390	5,440	5,490	2.6
2.8	4,840	4,900	4,960	5,020	5,070	5,130	5,180	5,240	5,290	5,350	5,400	5,450	5,500	5,560	5,610	5,660	5,710	5,760	5,810	5,860	5,910	2.8
3.0	5,190	5,250	5,310	5,370	5,430	5,490	5,550	5,610	5,670	5,730	5,790	5,840	5,900	5,950	6,010	6,060	6,120	6,170	6,220	6,280	6,330	3.0
3.2	5,530	5,600	5,660	5,730	5,790	5,860	5,920	5,980	6,050	6,110	6,170	6,230	6,290	6,350	6,410	6,460	6,520	6,580	6,630	6,690	6,750	3.2
3.4	5,870	5,940	6,010	6,080	6,150	6,220	6,280	6,350	6,420	6,480	6,540	6,610	6,670	6,730	6,800	6,860	6,920	6,980	7,040	7,100	7,160	3.4
3.6	6,210	6,290	6,360	6,430	6,510	6,580	6,650	6,720	6,790	6,860	6,930	6,990	7,060	7,130	7,190	7,260	7,320	7,390	7,450	7,510	7,570	3.6
3.8	6,560	6,640	6,720	6,800	6,880	6,950	7,030	7,100	7,180	7,250	7,320	7,390	7,460	7,530	7,600	7,670	7,740	7,810	7,870	7,940	8,010	3.8
4.0	6,930	7,010	7,090	7,180	7,260	7,340	7,420	7,500	7,570	7,650	7,730	7,800	7,880	7,950	8,020	8,100	8,170	8,240	8,310	8,380	8,450	4.0
4.2	7,290	7,380	7,470	7,550	7,640	7,720	7,810	7,890	7,970	8,050	8,130	8,210	8,290	8,370	8,440	8,520	8,600	8,670	8,750	8,820	8,890	4.2
4.4	7,660	7,750	7,840	7,930	8,020	8,110	8,200	8,290	8,370	8,460	8,540	8,630	8,710	8,790	8,870	8,950	9,030	9,110	9,190	9,260	9,340	4.4
4.6	8,040	8,140	8,230	8,330	8,420	8,520	8,610	8,700	8,790	8,880	8,970	9,050	9,140	9,230	9,310	9,400	9,480	9,560	9,640	9,730	9,810	4.6
4.8	8,430	8,530	8,630	8,730	8,830	8,930	9,030	9,120	9,220	9,310	9,400	9,500	9,590	9,680	9,770	9,850	9,940	10,030	10,110	10,200	10,280	4.8
5.0	8,830	8,940	9,050	9,150	9,250	9,360	9,460	9,560	9,660	9,750	9,850	9,950	10,040	10,140	10,230	10,320	10,410	10,500	10,600	10,680	10,770	5.0
5.2	9,240	9,350	9,460	9,570	9,680	9,790	9,890	10,000	10,100	10,210	10,310	10,410	10,510	10,610	10,700	10,800	10,900	10,990	11,090	11,180	11,270	5.2
5.4	9,660	9,780	9,890	10,010	10,120	10,230	10,340	10,450	10,560	10,670	10,780	10,880	10,980	11,090	11,190	11,290	11,390	11,490	11,590	11,690	11,780	5.4
5.6	10,090	10,220	10,340	10,460	10,570	10,690	10,810	10,920	11,030	11,150	11,260	11,370	11,480	11,580	11,690	11,800	11,900	12,000	12,110	12,210	12,310	5.6
5.8	10,540	10,670	10,790	10,920	11,040	11,160	11,280	11,400	11,520	11,640	11,750	11,870	11,980	12,090	12,210	12,320	12,430	12,530	12,640	12,750	12,850	5.8
6.0	11,000	11,130	11,260	11,390	11,520	11,650	11,770	11,900	12,020	12,140	12,260	12,380	12,500	12,620	12,740	12,850	12,970	13,080	13,190	13,300	13,410	6.0
6.2	11,470	11,610	11,740	11,880	12,010	12,150	12,280	12,410	12,530	12,660	12,790	12,910	13,040	13,160	13,280	13,400	13,520	13,640	13,750	13,870	13,990	6.2
6.4	11,950	12,090	12,230	12,370	12,510	12,650	12,790	12,920	13,060	13,190	13,320	13,450	13,580	13,710	13,840	13,960	14,080	14,210	14,330	14,450	14,570	6.4
6.6	12,430	12,580	12,730	12,880	13,020	13,170	13,310	13,450	13,590	13,730	13,870	14,000	14,130	14,270	14,400	14,530	14,660	14,790	14,910	15,040	15,160	6.6
6.8	12,920	13,080	13,240	13,390	13,540	13,690	13,840	13,980	14,130	14,270	14,410	14,560	14,690	14,830	14,970	15,110	15,240	15,370	15,500	15,640	15,760	6.8
7.0	13,420	13,580	13,740	13,900	14,060	14,220	14,370	14,520	14,670	14,820	14,970	15,110	15,260	15,400	15,540	15,680	15,820	15,960	16,100	16,230	16,370	7.0
7.2	13,920	14,090	14,250	14,420	14,580	14,740	14,900	15,060	15,210	15,370	15,520	15,670	15,820	15,970	16,120	16,260	16,410	16,550	16,690	16,840	16,970	7.2
7.4	14,410	14,580	14,760	14,930	15,100	15,260	15,430	15,590	15,750	15,910	16,070	16,230	16,380	16,540	16,690	16,840	16,990	17,140	17,290	17,430	17,580	7.4
7.6	14,890	15,070	15,250	15,430	15,600	15,780	15,950	16,110	16,280	16,450	16,610	16,770	16,930	17,090	17,250	17,410	17,560	17,710	17,870	18,020	18,170	7.6
7.8	15,360	15,550	15,730	15,910	16,090	16,270	16,450	16,620	16,790	16,960	17,130	17,300	17,470	17,630	17,790	17,950	18,110	18,270	18,430	18,580	18,740	7.8
8.0	15,800	15,990	16,180	16,370	16,550	16,730	16,910	17,090	17,270	17,450	17,620	17,790	17,960	18,130	18,300	18,460	18,630	18,790	18,950	19,110	19,270	8.0
8.2	16,210	16,410	16,600	16,790	16,980	17,170	17,360	17,540	17,720	17,900	18,080	18,260	18,430	18,600	18,780	18,950	19,110	19,280	19,450	19,610	19,770	8.2
8.4	16,600	16,800	17,000	17,200	17,390	17,580	17,770	17,960	18,150	18,330	18,510	18,700	18,870	19,050	19,230	19,400	19,570	19,740	19,910	20,080	20,250	8.4
8.6	16,890	17,100	17,300	17,500	17,700	17,890	18,090	18,280	18,470	18,650	18,840	19,020	19,210	19,390	19,570	19,740	19,920	20,090	20,260	20,440	20,600	8.6
8.8	17,060	17,270	17,470	17,670	17,870	18,070	18,270	18,460	18,650	18,840	19,030	19,210	19,400	19,580	19,760	19,940	20,120	20,290	20,470	20,640	20,810	8.8
9.0	17,160	17,370	17,570	17,780	17,980	18,180	18,370	18,570	18,760	18,950	19,140	19,330	19,510	19,690	19,880	20,060	20,230	20,410	20,590	20,760	20,930	9.0
9.2	17,220	17,430	17,640	17,840	18,040	18,240	18,440	18,640	18,830	19,020	19,210	19,400	19,590	19,770	19,950	20,130	20,310	20,490	20,670	20,840	21,010	9.2
9.4	17,280	17,490	17,700	17,900	18,110	18,310	18,510	18,700	18,900	19,090	19,280	19,470	19,660	19,840	20,020	20,210	20,390	20,560	20,740	20,920	21,090	9.4
9.6	17,330	17,540	17,750	17,960	18,160	18,360	18,560	18,760	18,950	19,150	19,340	19,530	19,720	19,900	20,090	20,270	20,450	20,630	20,810	20,980	21,160	9.6
9.8	17,370	17,580	17,790	18,000	18,200	18,400	18,600	18,800	19,000	19,190	19,380	19,570	19,760	19,940	20,130	20,310	20,490	20,670	20,850	21,030	21,200	9.8
10.0	17,400	17,610	17,820	18,020	18,230	18,430	18,630	18,820	19,020	19,210	19,400	19,590	19,780	19,970	20,150	20,330	20,510	20,690	20,870	21,050	21,220	10.0

HEADWATER 980 to 1000
TAILWATER 938 to 939.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	
1.0*	1,150	1,160	1,170	1,180	1,190	1,200	1,210	1,210	1,220	1,230	1,240	1,250	1,260	1,270	1,280	1,280	1,290	1,300	1,310	1,320	1,330	1.0*
1.0	2,300	2,320	2,340	2,360	2,370	2,390	2,410	2,430	2,450	2,460	2,480	2,500	2,520	2,530	2,550	2,570	2,580	2,600	2,620	2,630	2,650	1.0
1.2	2,760	2,780	2,800	2,830	2,850	2,870	2,890	2,910	2,930	2,960	2,980	3,000	3,020	3,040	3,060	3,080	3,100	3,120	3,140	3,160	3,180	1.2
1.4	3,170	3,190	3,220	3,240	3,270	3,290	3,320	3,340	3,370	3,390	3,420	3,440	3,460	3,490	3,510	3,530	3,560	3,580	3,600	3,630	3,650	1.4
1.6	3,540	3,570	3,590	3,620	3,650	3,680	3,710	3,730	3,760	3,790	3,820	3,840	3,870	3,900	3,920	3,950	3,970	4,000	4,030	4,050	4,080	1.6
1.8	3,920	3,950	3,980	4,010	4,040	4,070	4,100	4,140	4,170	4,200	4,230	4,260	4,280	4,310	4,340	4,370	4,400	4,430	4,460	4,490	4,510	1.8
2.0	4,310	4,340	4,380	4,410	4,450	4,480	4,520	4,550	4,580	4,620	4,650	4,680	4,710	4,750	4,780	4,810	4,840	4,870	4,900	4,930	4,970	2.0
2.2	4,700	4,740	4,780	4,820	4,850	4,890	4,930	4,960	5,000	5,040	5,070	5,110	5,140	5,180	5,210	5,250	5,280	5,320	5,350	5,380	5,420	2.2
2.4	5,080	5,130	5,170	5,210	5,250	5,290	5,330	5,370	5,410	5,450	5,480	5,520	5,560	5,600	5,640	5,670	5,710	5,750	5,790	5,820	5,860	2.4
2.6	5,490	5,530	5,570	5,620	5,660	5,710	5,750	5,790	5,830	5,880	5,920	5,960	6,000	6,040	6,080	6,120	6,160	6,200	6,240	6,280	6,320	2.6
2.8	5,910	5,950	6,000	6,050	6,100	6,140	6,190	6,230	6,280	6,330	6,370	6,420	6,460	6,500	6,550	6,590	6,630	6,680	6,720	6,760	6,800	2.8
3.0	6,330	6,380	6,430	6,480	6,530	6,580	6,630	6,680	6,730	6,780	6,830	6,870	6,920	6,970	7,020	7,060	7,110	7,150	7,200	7,250	7,290	3.0
3.2	6,750	6,800	6,860	6,910	6,960	7,020	7,070	7,120	7,170	7,230	7,280	7,330	7,380	7,430	7,480	7,530	7,580	7,630	7,680	7,720	7,770	3.2
3.4	7,160	7,220	7,270	7,330	7,390	7,450	7,500	7,560	7,610	7,670	7,720	7,780	7,830	7,880	7,940	7,990	8,040	8,090	8,150	8,200	8,250	3.4
3.6	7,570	7,640	7,700	7,760	7,820	7,880	7,940	8,000	8,060	8,110	8,170	8,230	8,290	8,340	8,400	8,450	8,510	8,570	8,620	8,670	8,730	3.6
3.8	8,010	8,070	8,140	8,200	8,270	8,330	8,390	8,450	8,520	8,580	8,640	8,700	8,760	8,820	8,880	8,940	9,000	9,050	9,110	9,170	9,230	3.8
4.0	8,450	8,520	8,590	8,650	8,720	8,790	8,860	8,920	8,990	9,050	9,120	9,180	9,240	9,310	9,370	9,430	9,490	9,550	9,620	9,680	9,740	4.0
4.2	8,890	8,960	9,040	9,110	9,180	9,250	9,320	9,390	9,460	9,530	9,590	9,660	9,730	9,790	9,860	9,930	9,990	10,060	10,120	10,180	10,250	4.2
4.4	9,340	9,420	9,490	9,570	9,640	9,720	9,790	9,860	9,940	10,010	10,080	10,150	10,220	10,290	10,360	10,430	10,500	10,560	10,630	10,700	10,760	4.4
4.6	9,810	9,890	9,970	10,040	10,120	10,200	10,280	10,350	10,430	10,500	10,580	10,650	10,730	10,800	10,870	10,950	11,020	11,090	11,160	11,230	11,300	4.6
4.8	10,280	10,370	10,450	10,530	10,620	10,700	10,780	10,860	10,940	11,020	11,100	11,170	11,250	11,330	11,400	11,480	11,550	11,630	11,700	11,780	11,850	4.8
5.0	10,770	10,860	10,950	11,030	11,120	11,210	11,290	11,370	11,460	11,540	11,620	11,700	11,790	11,870	11,950	12,020	12,100	12,180	12,260	12,340	12,410	5.0
5.2	11,270	11,360	11,460	11,550	11,640	11,730	11,810	11,900	11,990	12,080	12,160	12,250	12,330	12,420	12,500	12,580	12,660	12,750	12,830	12,910	12,990	5.2
5.4	11,780	11,880	11,980	12,070	12,160	12,260	12,350	12,440	12,530	12,620	12,710	12,800	12,890	12,980	13,070	13,150	13,240	13,330	13,410	13,500	13,580	5.4
5.6	12,310	12,410	12,510	12,610	12,710	12,810	12,900	13,000	13,090	13,190	13,280	13,380	13,470	13,560	13,650	13,740	13,830	13,920	14,010	14,100	14,190	5.6
5.8	12,850	12,960	13,060	13,170	13,270	13,370	13,470	13,570	13,670	13,770	13,870	13,970	14,060	14,160	14,250	14,350	14,440	14,540	14,630	14,720	14,810	5.8
6.0	13,410	13,520	13,630	13,740	13,850	13,950	14,060	14,160	14,270	14,370	14,470	14,570	14,670	14,770	14,870	14,970	15,070	15,170	15,260	15,360	15,460	6.0
6.2	13,990	14,100	14,210	14,330	14,440	14,550	14,660	14,770	14,870	14,980	15,090	15,190	15,300	15,400	15,510	15,610	15,710	15,810	15,920	16,020	16,120	6.2
6.4	14,570	14,690	14,810	14,920	15,040	15,160	15,270	15,380	15,500	15,610	15,720	15,830	15,940	16,050	16,160	16,260	16,370	16,480	16,580	16,690	16,790	6.4
6.6	15,160	15,290	15,410	15,530	15,650	15,770	15,890	16,010	16,130	16,240	16,360	16,470	16,590	16,700	16,810	16,930	17,040	17,150	17,260	17,370	17,470	6.6
6.8	15,760	15,890	16,020	16,150	16,270	16,400	16,520	16,640	16,770	16,890	17,010	17,130	17,250	17,360	17,480	17,600	17,710	17,830	17,940	18,050	18,170	6.8
7.0	16,370	16,500	16,640	16,770	16,900	17,030	17,160	17,280	17,410	17,540	17,660	17,780	17,910	18,030	18,150	18,270	18,390	18,510	18,630	18,750	18,860	7.0
7.2	16,970	17,110	17,250	17,390	17,520	17,660	17,790	17,920	18,050	18,180	18,310	18,440	18,570	18,700	18,820	18,950	19,070	19,200	19,320	19,440	19,560	7.2
7.4	17,580	17,720	17,860	18,000	18,140	18,280	18,420	18,560	18,690	18,830	18,960	19,090	19,230	19,360	19,490	19,620	19,750	19,870	20,000	20,130	20,250	7.4
7.6	18,170	18,310	18,460	18,610	18,750	18,900	19,040	19,180	19,320	19,460	19,600	19,740	19,870	20,010	20,140	20,280	20,410	20,540	20,670	20,800	20,930	7.6
7.8	18,740	18,890	19,040	19,190	19,340	19,490	19,640	19,780	19,930	20,070	20,220	20,360	20,500	20,640	20,780	20,910	21,050	21,190	21,320	21,460	21,590	7.8
8.0	19,270	19,430	19,580	19,740	19,890	20,040	20,190	20,350	20,490	20,640	20,790	20,930	21,080	21,220	21,370	21,510	21,650	21,790	21,930	22,070	22,200	8.0
8.2	19,770	19,930	20,090	20,250	20,410	20,570	20,720	20,880	21,030	21,180	21,330	21,480	21,630	21,780	21,920	22,070	22,220	22,360	22,500	22,640	22,790	8.2
8.4	20,250	20,410	20,580	20,740	20,900	21,060	21,220	21,380	21,540	21,690	21,850	22,000	22,150	22,300	22,450	22,600	22,750	22,900	23,040	23,190	23,330	8.4
8.6	20,600	20,770	20,940	21,110	21,270	21,430	21,590	21,750	21,910	22,070	22,230	22,390	22,540	22,690	22,850	23,000	23,150	23,300	23,450	23,600	23,740	8.6
8.8	20,810	20,980	21,150	21,320	21,480	21,650	21,810	21,970	22,130	22,290	22,450	22,610	22,770	22,920	23,080	23,230	23,380	23,530	23,680	23,830	23,980	8.8
9.0	20,930	21,100	21,270	21,440	21,610	21,770	21,940	22,100	22,260	22,420	22,580	22,740	22,900	23,050	23,210	23,360	23,520	23,670	23,820	23,970	24,120	9.0
9.2	21,010	21,190	21,360	21,530	21,690	21,860	22,020	22,190	22,350	22,510	22,670	22,830	22,990	23,150	23,300	23,460	23,610	23,770	23,920	24,070	24,220	9.2
9.4	21,090	21,260	21,430	21,600	21,770	21,940	22,110	22,270	22,430	22,600	22,760	22,920	23,080	23,240	23,390	23,550	23,700	23,860	24,010	24,160	24,310	9.4
9.6	21,160	21,330	21,500	21,670	21,840	22,010	22,170	22,340	22,500	22,670	22,830	22,990	23,150	23,310	23,460	23,620	23,780	23,930	24,080	24,240	24,390	9.6
9.8	21,200	21,370	21,550	21,720	21,890	22,050	22,220	22,390	22,550	22,710	22,870	23,040	23,200	23,350	23,510	23,670	23,820	23,980	24,130	24,280	24,440	9.8
10.0	21,220	21,390	21,570	21,740	21,910	22,070	22,240	22,410	22,570	22,730	22,890	23,050	23,210	23,370	23,530	23,690	23,840	24,000	24,150	24,300	24,450	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1000 to 1020
TAILWATER 938 to 939.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	
1.0*	1, 330	1, 330	1, 340	1, 350	1, 360	1, 370	1, 370	1, 380	1, 390	1, 400	1, 400	1, 410	1, 420	1, 430	1, 440	1, 440	1, 450	1, 460	1, 470	1, 470	1, 480	1.0*
1.0	2, 650	2, 670	2, 680	2, 700	2, 710	2, 730	2, 750	2, 760	2, 780	2, 790	2, 810	2, 820	2, 840	2, 860	2, 870	2, 890	2, 900	2, 920	2, 930	2, 940	2, 960	1.0
1.2	3, 180	3, 200	3, 220	3, 240	3, 260	3, 280	3, 300	3, 310	3, 330	3, 350	3, 370	3, 390	3, 410	3, 430	3, 440	3, 460	3, 480	3, 500	3, 520	3, 530	3, 550	1.2
1.4	3, 650	3, 670	3, 690	3, 710	3, 740	3, 760	3, 780	3, 800	3, 820	3, 850	3, 870	3, 890	3, 910	3, 930	3, 950	3, 970	3, 990	4, 010	4, 030	4, 050	4, 070	1.4
1.6	4, 080	4, 100	4, 130	4, 150	4, 180	4, 200	4, 220	4, 250	4, 270	4, 300	4, 320	4, 340	4, 370	4, 390	4, 410	4, 440	4, 460	4, 480	4, 510	4, 530	4, 550	1.6
1.8	4, 510	4, 540	4, 570	4, 600	4, 620	4, 650	4, 680	4, 700	4, 730	4, 760	4, 780	4, 810	4, 840	4, 860	4, 890	4, 910	4, 940	4, 960	4, 990	5, 010	5, 040	1.8
2.0	4, 970	5, 000	5, 030	5, 060	5, 090	5, 120	5, 150	5, 180	5, 210	5, 230	5, 260	5, 290	5, 320	5, 350	5, 380	5, 410	5, 430	5, 460	5, 490	5, 520	5, 540	2.0
2.2	5, 420	5, 450	5, 480	5, 520	5, 550	5, 580	5, 610	5, 650	5, 680	5, 710	5, 740	5, 770	5, 800	5, 840	5, 870	5, 900	5, 930	5, 960	5, 990	6, 020	6, 050	2.2
2.4	5, 860	5, 890	5, 930	5, 970	6, 000	6, 040	6, 070	6, 110	6, 140	6, 170	6, 210	6, 240	6, 280	6, 310	6, 340	6, 380	6, 410	6, 440	6, 480	6, 510	6, 540	2.4
2.6	6, 320	6, 360	6, 400	6, 440	6, 480	6, 510	6, 550	6, 590	6, 630	6, 660	6, 700	6, 740	6, 770	6, 810	6, 850	6, 880	6, 920	6, 950	6, 990	7, 020	7, 060	2.6
2.8	6, 800	6, 850	6, 890	6, 930	6, 970	7, 010	7, 050	7, 090	7, 130	7, 170	7, 210	7, 250	7, 290	7, 330	7, 370	7, 410	7, 450	7, 480	7, 520	7, 560	7, 600	2.8
3.0	7, 290	7, 340	7, 380	7, 430	7, 470	7, 510	7, 560	7, 600	7, 640	7, 690	7, 730	7, 770	7, 810	7, 850	7, 900	7, 940	7, 980	8, 020	8, 060	8, 100	8, 140	3.0
3.2	7, 770	7, 820	7, 870	7, 920	7, 960	8, 010	8, 060	8, 100	8, 150	8, 190	8, 240	8, 280	8, 330	8, 370	8, 420	8, 460	8, 510	8, 550	8, 590	8, 640	8, 680	3.2
3.4	8, 250	8, 300	8, 350	8, 400	8, 450	8, 500	8, 550	8, 600	8, 650	8, 690	8, 740	8, 790	8, 840	8, 890	8, 930	8, 980	9, 030	9, 070	9, 120	9, 160	9, 210	3.4
3.6	8, 730	8, 780	8, 840	8, 890	8, 940	8, 990	9, 050	9, 100	9, 150	9, 200	9, 250	9, 300	9, 350	9, 400	9, 450	9, 500	9, 550	9, 600	9, 650	9, 700	9, 750	3.6
3.8	9, 230	9, 280	9, 340	9, 400	9, 450	9, 510	9, 560	9, 620	9, 670	9, 730	9, 780	9, 830	9, 890	9, 940	9, 990	10, 050	10, 100	10, 150	10, 200	10, 250	10, 300	3.8
4.0	9, 740	9, 800	9, 860	9, 920	9, 970	10, 030	10, 090	10, 150	10, 210	10, 260	10, 320	10, 380	10, 430	10, 490	10, 540	10, 600	10, 650	10, 710	10, 760	10, 820	10, 870	4.0
4.2	10, 250	10, 310	10, 370	10, 430	10, 500	10, 560	10, 620	10, 680	10, 740	10, 800	10, 860	10, 920	10, 980	11, 040	11, 100	11, 160	11, 210	11, 270	11, 330	11, 390	11, 440	4.2
4.4	10, 760	10, 830	10, 900	10, 960	11, 030	11, 090	11, 160	11, 220	11, 280	11, 350	11, 410	11, 470	11, 530	11, 600	11, 660	11, 720	11, 780	11, 840	11, 900	11, 960	12, 020	4.4
4.6	11, 300	11, 370	11, 440	11, 510	11, 580	11, 640	11, 710	11, 780	11, 840	11, 910	11, 980	12, 040	12, 110	12, 170	12, 240	12, 300	12, 370	12, 430	12, 490	12, 560	12, 620	4.6
4.8	11, 850	11, 920	12, 000	12, 070	12, 140	12, 210	12, 280	12, 350	12, 420	12, 490	12, 560	12, 630	12, 700	12, 770	12, 830	12, 900	12, 970	13, 040	13, 100	13, 170	13, 230	4.8
5.0	12, 410	12, 490	12, 570	12, 640	12, 720	12, 790	12, 870	12, 940	13, 010	13, 090	13, 160	13, 230	13, 300	13, 370	13, 440	13, 510	13, 590	13, 650	13, 720	13, 790	13, 860	5.0
5.2	12, 990	13, 070	13, 150	13, 230	13, 310	13, 380	13, 460	13, 540	13, 620	13, 690	13, 770	13, 840	13, 920	13, 990	14, 070	14, 140	14, 210	14, 290	14, 360	14, 430	14, 500	5.2
5.4	13, 580	13, 660	13, 750	13, 830	13, 910	13, 990	14, 070	14, 150	14, 230	14, 310	14, 390	14, 470	14, 550	14, 630	14, 710	14, 780	14, 860	14, 940	15, 010	15, 090	15, 160	5.4
5.6	14, 190	14, 270	14, 360	14, 450	14, 530	14, 620	14, 700	14, 790	14, 870	14, 950	15, 040	15, 120	15, 200	15, 280	15, 360	15, 440	15, 520	15, 600	15, 680	15, 760	15, 840	5.6
5.8	14, 810	14, 900	14, 990	15, 080	15, 170	15, 260	15, 350	15, 440	15, 530	15, 610	15, 700	15, 790	15, 870	15, 960	16, 040	16, 130	16, 210	16, 290	16, 380	16, 460	16, 540	5.8
6.0	15, 460	15, 550	15, 650	15, 740	15, 830	15, 930	16, 020	16, 110	16, 200	16, 290	16, 380	16, 470	16, 560	16, 650	16, 740	16, 830	16, 910	17, 000	17, 090	17, 170	17, 260	6.0
6.2	16, 120	16, 220	16, 310	16, 410	16, 510	16, 610	16, 700	16, 800	16, 890	16, 990	17, 080	17, 180	17, 270	17, 360	17, 450	17, 550	17, 640	17, 730	17, 820	17, 910	18, 000	6.2
6.4	16, 790	16, 890	17, 000	17, 100	17, 200	17, 300	17, 400	17, 500	17, 600	17, 700	17, 800	17, 890	17, 990	18, 090	18, 180	18, 280	18, 370	18, 470	18, 560	18, 660	18, 750	6.4
6.6	17, 470	17, 580	17, 690	17, 790	17, 900	18, 010	18, 110	18, 210	18, 320	18, 420	18, 520	18, 620	18, 720	18, 820	18, 920	19, 020	19, 120	19, 220	19, 320	19, 420	19, 510	6.6
6.8	18, 170	18, 280	18, 390	18, 500	18, 610	18, 720	18, 830	18, 940	19, 040	19, 150	19, 260	19, 360	19, 470	19, 570	19, 670	19, 780	19, 880	19, 980	20, 080	20, 180	20, 290	6.8
7.0	18, 860	18, 980	19, 090	19, 210	19, 320	19, 440	19, 550	19, 660	19, 770	19, 880	19, 990	20, 100	20, 210	20, 320	20, 430	20, 540	20, 640	20, 750	20, 850	20, 960	21, 060	7.0
7.2	19, 560	19, 680	19, 800	19, 920	20, 040	20, 160	20, 270	20, 390	20, 500	20, 620	20, 730	20, 850	20, 960	21, 070	21, 180	21, 290	21, 410	21, 520	21, 630	21, 730	21, 840	7.2
7.4	20, 250	20, 380	20, 500	20, 620	20, 750	20, 870	20, 990	21, 110	21, 230	21, 350	21, 470	21, 580	21, 700	21, 820	21, 930	22, 050	22, 160	22, 280	22, 390	22, 500	22, 620	7.4
7.6	20, 930	21, 060	21, 190	21, 320	21, 440	21, 570	21, 700	21, 820	21, 940	22, 070	22, 190	22, 310	22, 430	22, 550	22, 670	22, 790	22, 910	23, 030	23, 140	23, 260	23, 380	7.6
7.8	21, 590	21, 720	21, 860	21, 990	22, 120	22, 250	22, 380	22, 510	22, 630	22, 760	22, 890	23, 010	23, 140	23, 260	23, 380	23, 510	23, 630	23, 750	23, 870	23, 990	24, 110	7.8
8.0	22, 200	22, 340	22, 480	22, 610	22, 750	22, 880	23, 010	23, 140	23, 280	23, 410	23, 540	23, 660	23, 790	23, 920	24, 050	24, 170	24, 300	24, 420	24, 550	24, 670	24, 800	8.0
8.2	22, 790	22, 930	23, 060	23, 200	23, 340	23, 480	23, 610	23, 750	23, 880	24, 020	24, 150	24, 280	24, 410	24, 550	24, 680	24, 810	24, 930	25, 060	25, 190	25, 320	25, 440	8.2
8.4	23, 330	23, 480	23, 620	23, 760	23, 900	24, 040	24, 180	24, 320	24, 460	24, 600	24, 730	24, 870	25, 000	25, 140	25, 270	25, 400	25, 530	25, 670	25, 800	25, 930	26, 060	8.4
8.6	23, 740	23, 890	24, 030	24, 180	24, 320	24, 470	24, 610	24, 750	24, 890	25, 030	25, 170	25, 300	25, 440	25, 580	25, 710	25, 850	25, 980	26, 120	26, 250	26, 380	26, 510	8.6
8.8	23, 980	24, 130	24, 270	24, 420	24, 570	24, 710	24, 850	25, 000	25, 140	25, 280	25, 420	25, 560	25, 700	25, 830	25, 970	26, 110	26, 240	26, 380	26, 510	26, 640	26, 780	8.8
9.0	24, 120	24, 270	24, 420	24, 560	24, 710	24, 850	25, 000	25, 140	25, 280	25, 430	25, 570	25, 710	25, 850	25, 980	26, 120	26, 260	26, 400	26, 530	26, 670	26, 800	26, 930	9.0
9.2	24, 220	24, 370	24, 520	24, 670	24, 810	24, 960	25, 100	25, 250	25, 390	25, 530	25, 670	25, 810	25, 950	26, 090	26, 230	26, 370	26, 510	26, 640	26, 780	26, 910	27, 050	9.2
9.4	24, 310	24, 460	24, 610	24, 760	24, 910	25, 050	25, 200	25, 340	25, 490	25, 630	25, 770	25, 910	26, 050	26, 190	26, 330	26, 470	26, 610	26, 750	26, 880	27, 020	27, 150	9.4
9.6	24, 390	24, 540	24, 690	24, 830	24, 980	25, 130	25, 280	25, 420	25, 560	25, 710	25, 850	25, 990	26, 130	26, 270	26, 410	26, 550	26, 690	26, 830	26, 970	27, 100	27, 240	9.6
9.8	24, 440	24, 590	24, 740	24, 880	25, 030	25, 180	25, 330	25, 470	25, 610	25, 760	25, 900	26, 040	26, 180	26, 330	26, 470	26, 600	26, 740	26, 880	27, 020	27, 150	27, 290	9.8
10.0	24, 450	24, 600	24, 750	24, 900	25, 050	25, 200	25, 340	25, 490	25, 630	25, 780	25, 920	26, 060	26, 200	26, 340	26, 480	26, 620	26, 760	26, 900	27, 030	27, 170	27, 310	10.0

HEADWATER 1020 to 1040
TAILWATER 938 to 939.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	
1.0*	1,480	1,490	1,490	1,500	1,510	1,520	1,520	1,530	1,540	1,540	1,550	1,560	1,570	1,570	1,580	1,590	1,590	1,600	1,610	1,610	1,620	1.0*
1.0	2,960	2,970	2,990	3,000	3,020	3,030	3,050	3,060	3,070	3,090	3,100	3,120	3,130	3,140	3,160	3,170	3,190	3,200	3,210	3,230	3,240	1.0
1.2	3,550	3,570	3,590	3,600	3,620	3,640	3,650	3,670	3,690	3,710	3,720	3,740	3,760	3,770	3,790	3,800	3,820	3,840	3,850	3,870	3,890	1.2
1.4	4,070	4,090	4,110	4,130	4,150	4,170	4,190	4,210	4,230	4,250	4,270	4,290	4,310	4,330	4,350	4,370	4,380	4,400	4,420	4,440	4,460	1.4
1.6	4,550	4,570	4,600	4,620	4,640	4,660	4,680	4,710	4,730	4,750	4,770	4,790	4,810	4,840	4,860	4,880	4,900	4,920	4,940	4,960	4,980	1.6
1.8	5,040	5,060	5,090	5,110	5,140	5,160	5,190	5,210	5,240	5,260	5,280	5,310	5,330	5,350	5,380	5,400	5,420	5,450	5,470	5,490	5,520	1.8
2.0	5,540	5,570	5,600	5,630	5,650	5,680	5,710	5,730	5,760	5,790	5,810	5,840	5,870	5,890	5,920	5,940	5,970	5,990	6,020	6,040	6,070	2.0
2.2	6,050	6,080	6,110	6,140	6,170	6,200	6,230	6,260	6,280	6,310	6,340	6,370	6,400	6,430	6,450	6,480	6,510	6,540	6,570	6,590	6,620	2.2
2.4	6,540	6,570	6,610	6,640	6,670	6,700	6,730	6,760	6,800	6,830	6,860	6,890	6,920	6,950	6,980	7,010	7,040	7,070	7,100	7,130	7,160	2.4
2.6	7,060	7,090	7,130	7,160	7,200	7,230	7,270	7,300	7,330	7,370	7,400	7,430	7,470	7,500	7,530	7,560	7,600	7,630	7,660	7,690	7,730	2.6
2.8	7,600	7,640	7,670	7,710	7,750	7,780	7,820	7,860	7,890	7,930	7,970	8,000	8,040	8,070	8,110	8,140	8,180	8,210	8,250	8,280	8,320	2.8
3.0	8,140	8,180	8,220	8,260	8,300	8,340	8,380	8,420	8,460	8,500	8,540	8,570	8,610	8,650	8,690	8,730	8,760	8,800	8,840	8,870	8,910	3.0
3.2	8,680	8,720	8,770	8,810	8,850	8,890	8,930	8,980	9,020	9,060	9,100	9,140	9,180	9,220	9,260	9,300	9,340	9,380	9,420	9,460	9,500	3.2
3.4	9,210	9,260	9,300	9,350	9,390	9,440	9,480	9,520	9,570	9,610	9,660	9,700	9,740	9,790	9,830	9,870	9,910	9,960	10,000	10,040	10,080	3.4
3.6	9,750	9,790	9,840	9,890	9,940	9,990	10,030	10,080	10,130	10,170	10,220	10,260	10,310	10,360	10,400	10,450	10,490	10,540	10,580	10,620	10,670	3.6
3.8	10,300	10,350	10,400	10,460	10,510	10,560	10,610	10,650	10,700	10,750	10,800	10,850	10,900	10,950	10,990	11,040	11,090	11,140	11,180	11,230	11,280	3.8
4.0	10,870	10,930	10,980	11,030	11,090	11,140	11,190	11,240	11,290	11,350	11,400	11,450	11,500	11,550	11,600	11,650	11,700	11,750	11,800	11,850	11,900	4.0
4.2	11,440	11,500	11,550	11,610	11,670	11,720	11,780	11,830	11,890	11,940	12,000	12,050	12,100	12,160	12,210	12,260	12,320	12,370	12,420	12,470	12,520	4.2
4.4	12,020	12,080	12,140	12,200	12,260	12,310	12,370	12,430	12,490	12,540	12,600	12,660	12,710	12,770	12,830	12,880	12,940	12,990	13,050	13,100	13,160	4.4
4.6	12,620	12,680	12,740	12,800	12,870	12,930	12,990	13,050	13,110	13,170	13,230	13,290	13,350	13,410	13,460	13,520	13,580	13,640	13,700	13,750	13,810	4.6
4.8	13,230	13,300	13,360	13,430	13,490	13,560	13,620	13,680	13,750	13,810	13,870	13,940	14,000	14,060	14,120	14,180	14,240	14,300	14,360	14,420	14,480	4.8
5.0	13,860	13,930	14,000	14,070	14,130	14,200	14,270	14,330	14,400	14,470	14,530	14,600	14,660	14,730	14,790	14,860	14,920	14,980	15,050	15,110	15,170	5.0
5.2	14,500	14,580	14,650	14,720	14,790	14,860	14,930	15,000	15,070	15,140	15,210	15,270	15,340	15,410	15,480	15,540	15,610	15,680	15,740	15,810	15,880	5.2
5.4	15,160	15,240	15,310	15,390	15,460	15,530	15,610	15,680	15,750	15,830	15,900	15,970	16,040	16,110	16,180	16,250	16,320	16,390	16,460	16,530	16,600	5.4
5.6	15,840	15,920	16,000	16,080	16,150	16,230	16,310	16,380	16,460	16,530	16,610	16,680	16,760	16,830	16,900	16,980	17,050	17,120	17,200	17,270	17,340	5.6
5.8	16,540	16,620	16,700	16,780	16,860	16,950	17,020	17,100	17,180	17,260	17,340	17,420	17,500	17,570	17,650	17,730	17,800	17,880	17,950	18,030	18,100	5.8
6.0	17,260	17,340	17,430	17,510	17,600	17,680	17,760	17,850	17,930	18,010	18,090	18,180	18,260	18,340	18,420	18,500	18,580	18,660	18,730	18,810	18,890	6.0
6.2	18,000	18,090	18,170	18,260	18,350	18,440	18,520	18,610	18,700	18,780	18,870	18,950	19,040	19,120	19,200	19,290	19,370	19,450	19,530	19,620	19,700	6.2
6.4	18,750	18,840	18,930	19,020	19,120	19,210	19,300	19,390	19,480	19,570	19,650	19,740	19,830	19,920	20,010	20,090	20,180	20,260	20,350	20,440	20,520	6.4
6.6	19,510	19,610	19,700	19,800	19,900	19,990	20,080	20,180	20,270	20,360	20,460	20,550	20,640	20,730	20,820	20,910	21,000	21,090	21,180	21,270	21,360	6.6
6.8	20,290	20,390	20,490	20,580	20,680	20,780	20,880	20,980	21,070	21,170	21,270	21,360	21,460	21,550	21,650	21,740	21,830	21,930	22,020	22,110	22,200	6.8
7.0	21,060	21,170	21,270	21,370	21,480	21,580	21,680	21,780	21,880	21,980	22,080	22,180	22,280	22,380	22,480	22,570	22,670	22,770	22,860	22,960	23,060	7.0
7.2	21,840	21,950	22,060	22,160	22,270	22,380	22,480	22,590	22,690	22,790	22,900	23,000	23,100	23,210	23,310	23,410	23,510	23,610	23,710	23,810	23,910	7.2
7.4	22,620	22,730	22,840	22,950	23,060	23,170	23,280	23,390	23,490	23,600	23,710	23,820	23,920	24,030	24,130	24,240	24,340	24,440	24,550	24,650	24,750	7.4
7.6	23,380	23,490	23,610	23,720	23,830	23,950	24,060	24,170	24,280	24,400	24,510	24,620	24,730	24,830	24,940	25,050	25,160	25,270	25,370	25,480	25,590	7.6
7.8	24,110	24,230	24,350	24,470	24,580	24,700	24,820	24,930	25,050	25,160	25,280	25,390	25,500	25,620	25,730	25,840	25,950	26,060	26,170	26,280	26,390	7.8
8.0	24,800	24,920	25,040	25,160	25,280	25,400	25,520	25,640	25,760	25,880	25,990	26,110	26,230	26,340	26,460	26,570	26,690	26,800	26,910	27,030	27,140	8.0
8.2	25,440	25,570	25,690	25,820	25,940	26,070	26,190	26,310	26,430	26,550	26,670	26,790	26,910	27,030	27,150	27,270	27,380	27,500	27,620	27,730	27,850	8.2
8.4	26,060	26,180	26,310	26,440	26,570	26,690	26,820	26,940	27,070	27,190	27,310	27,440	27,560	27,680	27,800	27,920	28,040	28,160	28,280	28,400	28,520	8.4
8.6	26,510	26,640	26,770	26,900	27,030	27,160	27,290	27,420	27,540	27,670	27,790	27,920	28,040	28,170	28,290	28,410	28,540	28,660	28,780	28,900	29,020	8.6
8.8	26,780	26,910	27,040	27,170	27,300	27,430	27,560	27,690	27,820	27,950	28,070	28,200	28,320	28,450	28,570	28,700	28,820	28,940	29,070	29,190	29,310	8.8
9.0	26,930	27,070	27,200	27,330	27,460	27,590	27,720	27,850	27,980	28,110	28,240	28,360	28,490	28,620	28,740	28,870	28,990	29,110	29,240	29,360	29,480	9.0
9.2	27,050	27,180	27,320	27,450	27,580	27,710	27,840	27,970	28,100	28,230	28,360	28,490	28,610	28,740	28,860	28,990	29,120	29,240	29,360	29,490	29,610	9.2
9.4	27,150	27,290	27,420	27,550	27,690	27,820	27,950	28,080	28,210	28,340	28,470	28,600	28,720	28,850	28,980	29,100	29,230	29,350	29,480	29,600	29,720	9.4
9.6	27,240	27,370	27,510	27,640	27,770	27,900	28,040	28,170	28,300	28,430	28,560	28,680	28,810	28,940	29,070	29,190	29,320	29,440	29,570	29,690	29,820	9.6
9.8	27,290	27,420	27,560	27,690	27,820	27,960	28,090	28,220	28,350	28,480	28,610	28,740	28,870	28,990	29,120	29,250	29,370	29,500	29,620	29,750	29,870	9.8
10.0	27,310	27,440	27,570	27,710	27,840	27,970	28,110	28,240	28,370	28,500	28,630	28,750	28,880	29,010	29,140	29,260	29,390	29,510	29,640	29,760	29,890	10.0

MARCH 1999

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

HEADWATER 1040 to 1060
TAILWATER 938 to 939.99

CHEROKEE DAM

DISCHARGE FOR ALL SLUICES AT IDENTICAL OPENINGS*

IN CUBIC FEET PER SECOND

GATE OPENING IN FEET	HEADWATER ELEVATION																					GATE OPENING IN FEET
	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	
1.0*	1,620	1,630	1,630	1,640	1,650	1,650	1,660	1,670	1,670	1,680	1,690	1,690	1,700	1,700	1,710	1,720	1,720	1,730	1,740	1,740	1,750	1.0*
1.0	3,240	3,250	3,270	3,280	3,290	3,310	3,320	3,330	3,340	3,360	3,370	3,380	3,400	3,410	3,420	3,430	3,450	3,460	3,470	3,480	3,500	1.0
1.2	3,890	3,900	3,920	3,930	3,950	3,970	3,980	4,000	4,010	4,030	4,040	4,060	4,070	4,090	4,100	4,120	4,140	4,150	4,170	4,180	4,190	1.2
1.4	4,460	4,480	4,500	4,510	4,530	4,550	4,570	4,590	4,600	4,620	4,640	4,660	4,670	4,690	4,710	4,730	4,740	4,760	4,780	4,800	4,810	1.4
1.6	4,980	5,000	5,020	5,040	5,060	5,080	5,100	5,120	5,140	5,160	5,180	5,200	5,220	5,240	5,260	5,280	5,300	5,320	5,340	5,360	5,380	1.6
1.8	5,520	5,540	5,560	5,580	5,610	5,630	5,650	5,670	5,700	5,720	5,740	5,760	5,780	5,810	5,830	5,850	5,870	5,890	5,910	5,930	5,950	1.8
2.0	6,070	6,090	6,120	6,140	6,170	6,190	6,220	6,240	6,270	6,290	6,310	6,340	6,360	6,390	6,410	6,430	6,460	6,480	6,500	6,530	6,550	2.0
2.2	6,620	6,650	6,680	6,700	6,730	6,760	6,780	6,810	6,840	6,860	6,890	6,920	6,940	6,970	6,990	7,020	7,050	7,070	7,100	7,120	7,150	2.2
2.4	7,160	7,190	7,220	7,250	7,280	7,310	7,340	7,360	7,390	7,420	7,450	7,480	7,510	7,530	7,560	7,590	7,620	7,650	7,670	7,700	7,730	2.4
2.6	7,730	7,760	7,790	7,820	7,850	7,880	7,910	7,950	7,980	8,010	8,040	8,070	8,100	8,130	8,160	8,190	8,220	8,250	8,280	8,310	8,340	2.6
2.8	8,320	8,350	8,390	8,420	8,450	8,490	8,520	8,550	8,590	8,620	8,650	8,690	8,720	8,750	8,780	8,820	8,850	8,880	8,910	8,950	8,980	2.8
3.0	8,910	8,950	8,980	9,020	9,060	9,090	9,130	9,170	9,200	9,240	9,270	9,310	9,340	9,380	9,410	9,450	9,480	9,520	9,550	9,590	9,620	3.0
3.2	9,500	9,540	9,580	9,620	9,660	9,690	9,730	9,770	9,810	9,850	9,890	9,920	9,960	10,000	10,040	10,070	10,110	10,150	10,180	10,220	10,260	3.2
3.4	10,080	10,120	10,160	10,210	10,250	10,290	10,330	10,370	10,410	10,450	10,490	10,530	10,570	10,610	10,650	10,690	10,730	10,770	10,810	10,840	10,880	3.4
3.6	10,670	10,710	10,760	10,800	10,840	10,890	10,930	10,970	11,020	11,060	11,100	11,140	11,180	11,230	11,270	11,310	11,350	11,390	11,430	11,480	11,520	3.6
3.8	11,280	11,320	11,370	11,420	11,460	11,510	11,550	11,600	11,640	11,690	11,730	11,780	11,820	11,870	11,910	11,960	12,000	12,040	12,090	12,130	12,170	3.8
4.0	11,900	11,950	12,000	12,050	12,100	12,140	12,190	12,240	12,290	12,330	12,380	12,430	12,480	12,520	12,570	12,620	12,660	12,710	12,750	12,800	12,850	4.0
4.2	12,520	12,580	12,630	12,680	12,730	12,780	12,830	12,880	12,930	12,980	13,030	13,080	13,130	13,180	13,230	13,280	13,330	13,370	13,420	13,470	13,520	4.2
4.4	13,160	13,210	13,270	13,320	13,370	13,430	13,480	13,530	13,580	13,640	13,690	13,740	13,790	13,850	13,900	13,950	14,000	14,050	14,100	14,150	14,200	4.4
4.6	13,810	13,870	13,920	13,980	14,040	14,090	14,150	14,210	14,260	14,320	14,370	14,430	14,480	14,530	14,590	14,640	14,700	14,750	14,800	14,860	14,910	4.6
4.8	14,480	14,540	14,600	14,660	14,720	14,780	14,840	14,900	14,960	15,010	15,070	15,130	15,190	15,240	15,300	15,360	15,410	15,470	15,520	15,580	15,640	4.8
5.0	15,170	15,240	15,300	15,360	15,420	15,480	15,540	15,610	15,670	15,730	15,790	15,850	15,910	15,970	16,030	16,090	16,140	16,200	16,260	16,320	16,380	5.0
5.2	15,880	15,940	16,010	16,070	16,140	16,200	16,270	16,330	16,390	16,460	16,520	16,580	16,640	16,710	16,770	16,830	16,890	16,950	17,020	17,080	17,140	5.2
5.4	16,600	16,670	16,730	16,800	16,870	16,940	17,000	17,070	17,140	17,200	17,270	17,340	17,400	17,470	17,530	17,600	17,660	17,730	17,790	17,850	17,920	5.4
5.6	17,340	17,410	17,480	17,550	17,620	17,690	17,760	17,830	17,900	17,970	18,040	18,110	18,180	18,250	18,320	18,380	18,450	18,520	18,580	18,650	18,720	5.6
5.8	18,100	18,180	18,250	18,330	18,400	18,470	18,550	18,620	18,690	18,770	18,840	18,910	18,980	19,050	19,120	19,190	19,260	19,330	19,400	19,470	19,540	5.8
6.0	18,890	18,970	19,050	19,120	19,200	19,280	19,350	19,430	19,510	19,580	19,660	19,730	19,810	19,880	19,950	20,030	20,100	20,170	20,250	20,320	20,390	6.0
6.2	19,700	19,780	19,860	19,940	20,020	20,100	20,180	20,260	20,340	20,420	20,500	20,570	20,650	20,730	20,810	20,880	20,960	21,040	21,110	21,190	21,260	6.2
6.4	20,520	20,610	20,690	20,770	20,860	20,940	21,020	21,110	21,190	21,270	21,350	21,430	21,510	21,590	21,680	21,760	21,840	21,910	21,990	22,070	22,150	6.4
6.6	21,360	21,450	21,530	21,620	21,710	21,790	21,880	21,970	22,050	22,140	22,220	22,310	22,390	22,480	22,560	22,640	22,730	22,810	22,890	22,970	23,050	6.6
6.8	22,200	22,300	22,390	22,480	22,570	22,660	22,750	22,840	22,930	23,010	23,100	23,190	23,280	23,370	23,450	23,540	23,630	23,710	23,800	23,880	23,970	6.8
7.0	23,060	23,150	23,240	23,340	23,430	23,530	23,620	23,710	23,810	23,900	23,990	24,080	24,170	24,260	24,350	24,440	24,530	24,620	24,710	24,800	24,890	7.0
7.2	23,910	24,010	24,100	24,200	24,300	24,400	24,490	24,590	24,690	24,780	24,880	24,970	25,060	25,160	25,250	25,350	25,440	25,530	25,620	25,720	25,810	7.2
7.4	24,750	24,860	24,960	25,060	25,160	25,260	25,360	25,460	25,560	25,660	25,760	25,850	25,950	26,050	26,150	26,240	26,340	26,440	26,530	26,630	26,720	7.4
7.6	25,590	25,690	25,800	25,900	26,010	26,110	26,210	26,320	26,420	26,520	26,620	26,720	26,820	26,930	27,030	27,130	27,230	27,320	27,420	27,520	27,620	7.6
7.8	26,390	26,500	26,610	26,720	26,820	26,930	27,040	27,140	27,250	27,350	27,460	27,560	27,670	27,770	27,880	27,980	28,080	28,180	28,290	28,390	28,490	7.8
8.0	27,140	27,250	27,360	27,470	27,580	27,690	27,800	27,910	28,020	28,130	28,240	28,350	28,450	28,560	28,670	28,770	28,880	28,980	29,090	29,190	29,300	8.0
8.2	27,850	27,960	28,080	28,190	28,310	28,420	28,530	28,640	28,750	28,870	28,980	29,090	29,200	29,310	29,420	29,520	29,630	29,740	29,850	29,960	30,060	8.2
8.4	28,520	28,640	28,750	28,870	28,990	29,100	29,220	29,330	29,450	29,560	29,670	29,790	29,900	30,010	30,120	30,230	30,350	30,460	30,570	30,680	30,790	8.4
8.6	29,020	29,140	29,260	29,380	29,500	29,610	29,730	29,850	29,960	30,080	30,200	30,310	30,420	30,540	30,650	30,770	30,880	30,990	31,100	31,220	31,330	8.6
8.8	29,310	29,430	29,550	29,670	29,790	29,910	30,030	30,150	30,260	30,380	30,500	30,610	30,730	30,840	30,960	31,070	31,190	31,300	31,410	31,530	31,640	8.8
9.0	29,480	29,600	29,720	29,840	29,960	30,080	30,200	30,320	30,440	30,560	30,670	30,790	30,910	31,020	31,140	31,250	31,370	31,480	31,600	31,710	31,820	9.0
9.2	29,610	29,730	29,850	29,970	30,090	30,220	30,330	30,450	30,570	30,690	30,810	30,930	31,040	31,160	31,280	31,390	31,510	31,620	31,740	31,850	31,960	9.2
9.4	29,720	29,850	29,970	30,090	30,210	30,330	30,450	30,570	30,690	30,810	30,930	31,050	31,170	31,280	31,400	31,510	31,630	31,750	31,860	31,980	32,090	9.4
9.6	29,820	29,940	30,060	30,180	30,300	30,430	30,550	30,670	30,790	30,910	31,020	31,140	31,260	31,380	31,500	31,610	31,730	31,840	31,960	32,070	32,190	9.6
9.8	29,870	29,990	30,120	30,240	30,360	30,480	30,600	30,720	30,840	30,960	31,080	31,200	31,320	31,440	31,550	31,670	31,790	31,900	32,020	32,130	32,250	9.8
10.0	29,890	30,010	30,130	30,260	30,380	30,500	30,620	30,740	30,860	30,980	31,100	31,220	31,330	31,450	31,570	31,690	31,800	31,920	32,030	32,150	32,260	10.0

HEADWATER 1060 to 1080
TAILWATER 938 to 939.99

** Except for the first 1.0-foot gate opening in which gates 2, 4, 6, and 8 are 1.0-foot open while the other gates are closed.*

MARCH 1999

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DISCHARGE COEFFICIENTS FOR SPILLWAYS AT TVA DAMS

By Kenneth W. Kirkpatrick,[1] A. M. ASCE

Synopsis

Spillway ratings derived from model studies have been used in the preparation of spillway rating tables for the Tennessee Valley Authority dams. As a result of these studies, discharge coefficients for eleven of the Tennessee Valley Authority dams are given in this paper. Coefficients for both submerged and free discharge conditions are presented for discharges over standard spillway crests, irregular spillway crests, and a vertical-lift spillway gate. Discharge coefficients for Tainter gates placed on curved spillway crests are also given for various gate openings under free discharge conditions. In addition, data on the effect of model scale on the discharge coefficient and the effect of closing adjacent spillway bays and gates are presented. The coefficient relationships are shown in a form that may be used by designers as a guide in making determinations of the discharges for future spillways.

Notation

The letter symbols adopted for use in this paper are defined where they first appear, in the illustrations or in the text, and are arranged alphabetically, for convenience of reference, in the Appendix.

Introduction

The Tennessee Valley Authority (TVA) operates a system of nine dams on the Tennessee River and twenty-three on the tributary rivers. The successful operation of such a system requires accurate discharge ratings for each structure. Although enough water is seldom available to make complete ratings for most spillways from measurements conducted on the prototype structure, ratings can be determined from scale model tests. Therefore, the necessary ratings for the TVA spillways have been determined by this means. Model studies have been made at the TVA Hydraulic Laboratory at Norris, Tenn.,

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on nine different spillway crest shapes equipped with three types of control gates.

Seven of the nine crests were curved sections which approximated the shape of the lower nappe of a sharp-crested weir. The other two crests were flat. The two flat-crested weirs and one of the curved crests were equipped with double-leaf vertical lift gates. Five of the curved crests were equipped with Tainter gates and the other with vertical lift gates.

Data Presented.—Data are presented for the following conditions: (1) Free, ungated flow through a series of spillway bays; (2) submerged, ungated flow through a series of spillway bays; (3) free, ungated flow through a series of spillway bays, with adjacent bays fully open or closed; (4) free flow over a vertical lift gate; (5) submerged flow over a vertical lift gate; (6) flow under a series of Tainter gates set with equal openings; and (7) flow under a series of Tainter gates with adjacent gates closed.

Data are also presented to show the effect of model scale for the condition of free, ungated flow through a series of spillway bays.

General Model Arrangement.—The models were tested in flumes either 3.5 ft wide or 8 ft wide. Models installed in the smaller flume usually consisted of a reproduction of three of the prototype spillway bays. In the larger flume five or six spillway bays were reproduced. Each of these flumes was provided with glass panels for observation purposes. The models placed in the larger flume were constructed at scale ratios of from 1:28.72 to 1:50 with a ratio of approximately 1:35 generally used. Those tested in the smaller flume were built at scale ratios of 1:50, 1:100, and 1:200.

The models were usually provided with concrete crests and concrete piers to insure dimensional stability. Half piers were constructed on the ends of each model. If the model did not completely fill the flume one side was placed against the glass side of the flume and the other against a false wall. The river bed upstream and downstream from the model was reproduced at the elevation of the prototype river bed. Suitable baffling was provided to obtain a uniform distribution of flow in the spillway approach channel. The tailwater level was controlled at the end of the flumes by means of slat gates. Model discharges were determined from readings of a carefully calibrated diaphragm orifice located in the water supply line.

Headwater heights were measured at two piezometers at distances equal to approximately 5 and 8 times the design head upstream from the spillway crest. Tailwater heights were obtained at 2 piezometers at distances equal to approximately 9 and 12 times the design head downstream from the spillway crest—in all cases, sufficiently far enough downstream to eliminate the effect of the spillway apron.

In most studies the headwater and tailwater levels were determined by means of hook gages reading to 0.001 ft. For the 1/200-scale model the heads were measured with a micrometer point gage reading to 0.0001 ft.

Discharge Equations.—The model data have been reduced by the use of two commonly accepted discharge equations. For both free and submerged flow over a spillway crest the equation,

$$Q = C\,L\,H^{3/2} \qquad (1)$$

was used, in which Q is the discharge in cubic feet per second, C is the coefficient of discharge determined from the model tests, L is the length of the crest, and H is the total head as shown in Fig. 1(*a*). Use was made of the same equation in the reduction of the data for free and submerged flows over a vertical gate with D, H, d, and P (Fig. 1(*a*)) being measured from the top of the gate.

For flow under a gate the equation for a rectangular orifice under low head,

$$Q = C\,L\,[H^{3/2} - (D_1 + h)^{3/2}] \qquad (2)$$

was used, in which D_1 is the depth of water to the bottom of the gate as defined in Fig. 1(*b*) and h is the approach velocity head.

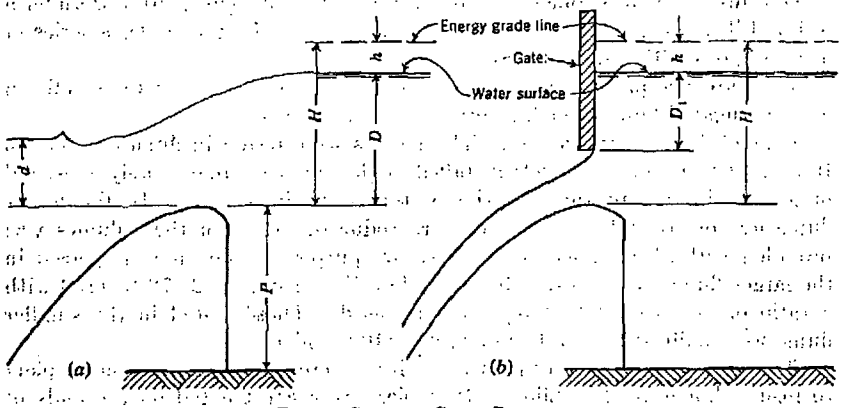

Fig. 1.—Spillway-Crest Diagram

Free-Discharge Coefficients, Flow over Spillway Crests

It is common practice for engineers to design spillway crests to approximate closely the shape of the lower portion of a jet issuing from a sharp-crested weir, and this type of crest is designated a standard crest.[2] Because the shape of the jet changes with the head on the weir, some particular head must be used for each design. This head for which a particular crest is designed is termed the design head. At this head, pressures approximating atmospheric pressure are developed at the spillway surface. At smaller heads, pressures are greater than atmospheric. Seven of the nine TVA crests for which data are available approximate standard crests in shape whereas the other two crests, which are flat, do not. Fig. 2 shows the basic details and dimensions of each of these crests. Fig. 3 presents the coefficient data obtained on the crests of Fig. 2. Pertinent design data concerning each crest, together with the scale to which each was modeled, appear in Table 1. Eleven spillways are also listed in Table 1. Two pairs of these, the Ocoee No. 3-Apalachia set, and the Douglas-Watts Bar set, both in Tennessee, have crest shapes that are identical within the pair but which were tested for different values of the approach depth, P.

[2] "Hydroelectric Handbook," by W. P. Creager and J. D. Justin, John Wiley & Sons, Inc., New York, N. Y., 2d Ed., 1950.

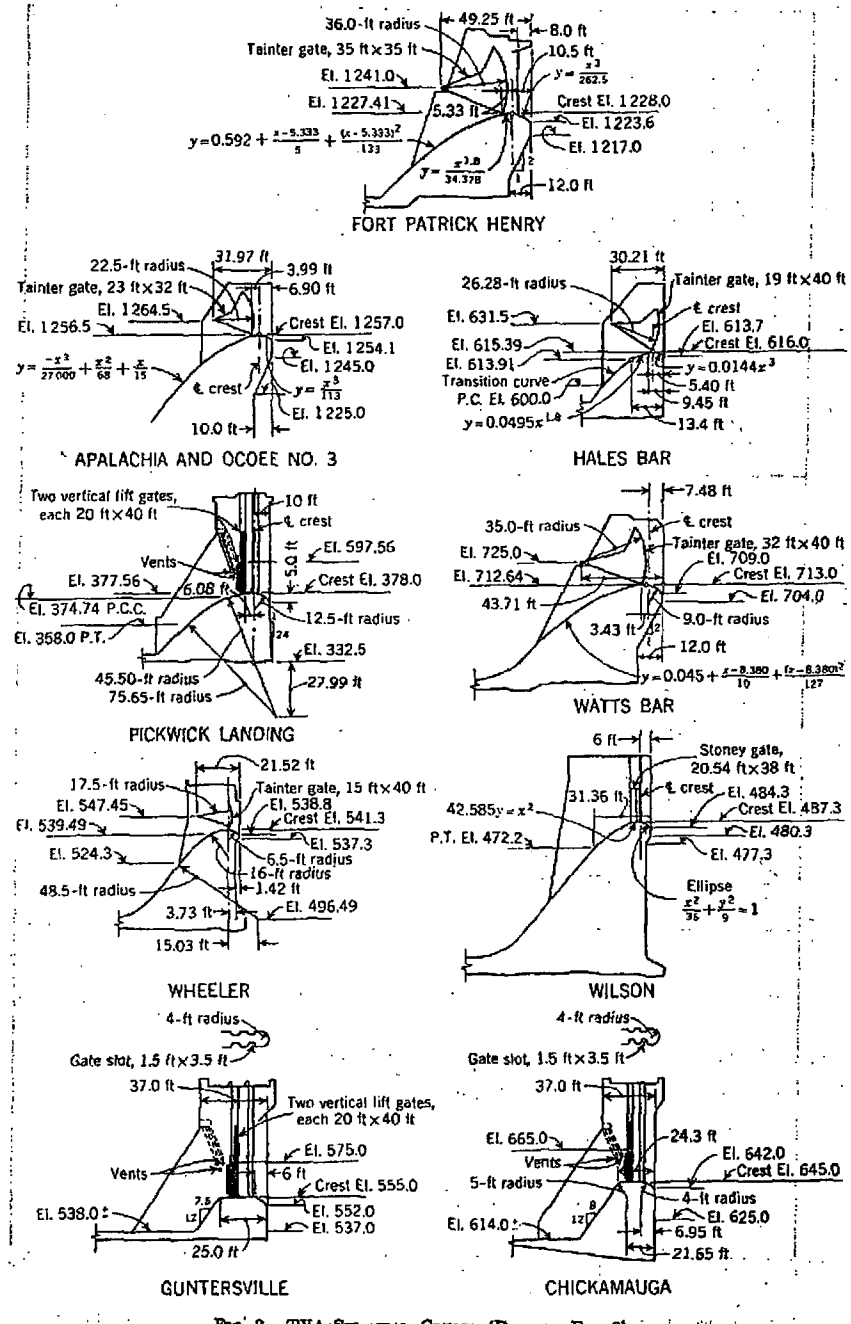

Fig. 2.—TVA Spillway Crests (Data in Fig. 3)

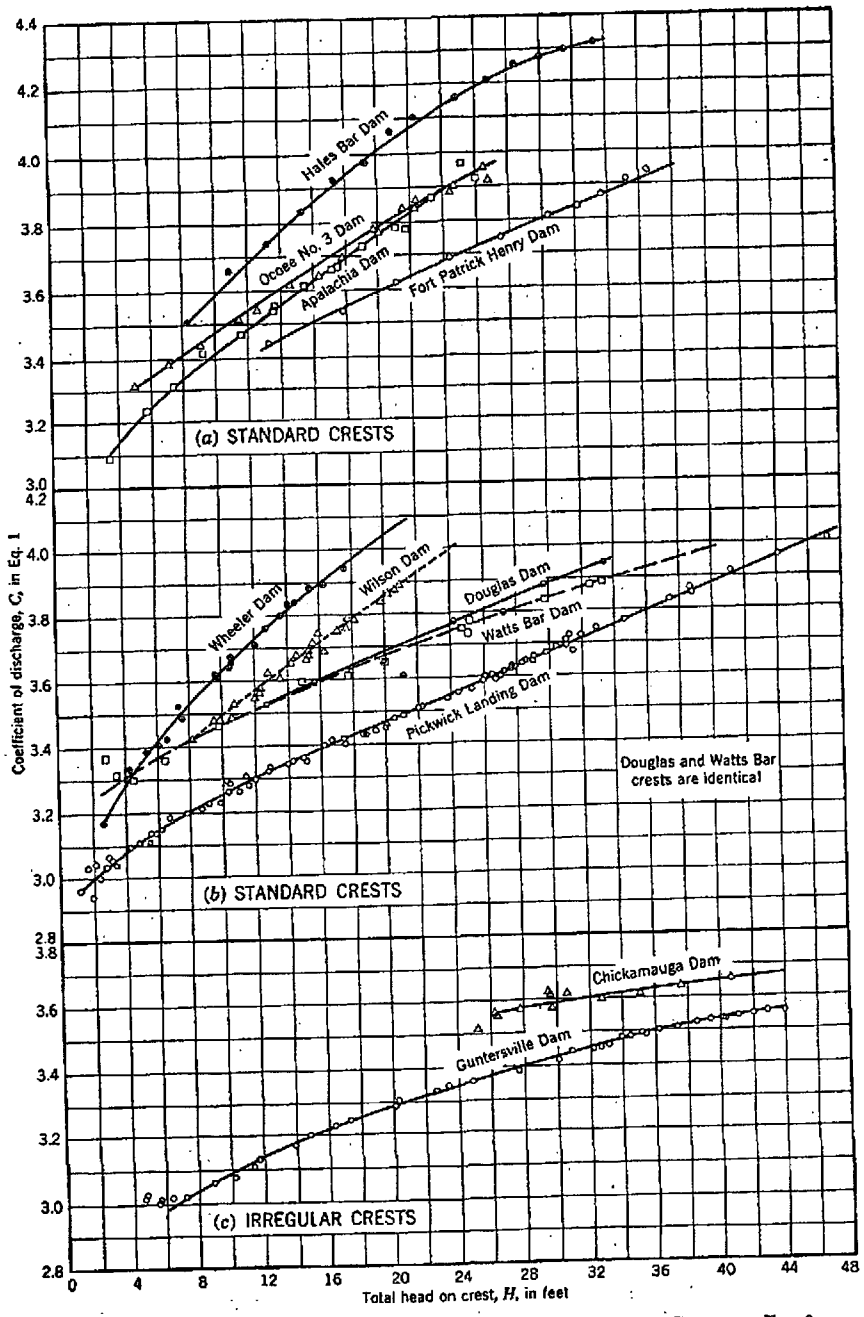

FIG. 3.—DISCHARGE COEFFICIENTS FOR FREE FLOW OVER THE SPILLWAY CRESTS OF FIG. 2

The accuracy of the data is evidenced by the plotting of the data points in Fig. 3. Except in some cases at low heads, the deviation of any plotted point from the coefficient curve does not exceed 0.5%.

Standard Crests.—It has been shown by various authors that the discharge coefficients for all standard crests can be related to each other and that, conversely, the coefficients to be used for a new design can be taken from previous test data.[2,3,4,5] Unfortunately, in most crest designs, due to other design considerations, it is necessary that the shape be varied from the standard form. Nevertheless, satisfactory coefficients can be obtained as sufficient data are now available on a range of crest shapes. By comparison of crest shapes designers may select a coefficient for any particular crest.

Dimensionless plotting provides a means for comparison of crest shapes. This method is used in Fig. 4 on which seven TVA crests which closely approximate standard crests are shown by the solid lines, with the dashed line representing a standard crest shape.[2] The horizontal coordinate, x, and the vertical coordinate, y, of the crest curve have been divided by the design head, H_o.

TABLE 1.—DESIGN DATA FOR ELEVEN MODELS OF TVA SPILLWAYS

Project	Model scale	Design head, H_o, in feet	Upstream depth, P, in feet	$\frac{H_o}{P}$	Pier nose radius, in feet
Hales Bar	1:34.76	18	32	0.56	3.00
Ocoee No. 3	1:28.72	23	67	0.35	3.00
Apalachia	1:28.72	23	97	0.24	3.00
Fort Patrick Henry	1:50	35	43	0.81	3.25
Wheeler	1:34.35	16.5	43	0.38	2.50
Wilson	1:39.4	19	75	0.25	4.00
Douglas	1:35	23.5	133	0.18	3.25
Watts Bar	1:35	23.5	52	0.45	3.25
Pickwick Landing	1:50	31.5	32	0.98	3.75
Chickamauga	1:50		20		4.00
Guntersville	1:50		18		4.00

The design head was determined by fitting the real and standard curves at the crest point ($x = 0$) and at the intersection of the curve with the upstream vertical face. These design-head values are presented in Table 1. The design-head discharge coefficients (C_o) determined from Fig. 3 are shown in Fig. 4.

The TVA crests all fairly closely approximate the standard curve from the upstream spillway face to a point somewhere downstream from the crest which was determined by the position of the gate seal. Below this latter point, the crest shape was modified to fit the trajectory of a jet issuing from under the gate when set at a small opening. The upstream face for a standard crest is vertical. The upstream face of the TVA crests, as shown in Fig. 4, deviates from the vertical. Other experimenters have established the fact that the shape of the upstream face generally has little influence on the discharge coefficient.[3]

[3] "Final Reports of Boulder Canyon Project," *Bulletin No. 3*, Part VI, Hydraulic Investigations, Bureau of Reclamation, U. S. Dept. of the Interior, Washington, D. C., 1947.

[4] "Engineering Hydraulics," edited by Hunter Rouse, John Wiley & Sons, Inc., New York, N. Y., 1950.

[5] "Discharge Coefficients for Irregular Overfall Spillways," by J. N. Bradley, *Engineering Monograph No. 9*, Bureau of Reclamation, U. S. Dept. of the Interior, Washington, D. C., 1952.

Fig. 4 indicates that the shape of the curve from the crest to a point somewhere in the neighborhood of $x/H_o = 0.5$ materially affects the coefficient. As the curve is raised above the standard curve, the coefficient is decreased. This can be seen by comparing the (y/H_o)-values at $x/H_o = 0.5$ with C_o. The comparative crests in Fig. 4 have been placed in the order of decreasing (Y/H_o)-values. No reasonable correlation of C_o with either upstream shape of H_o/P can be determined.

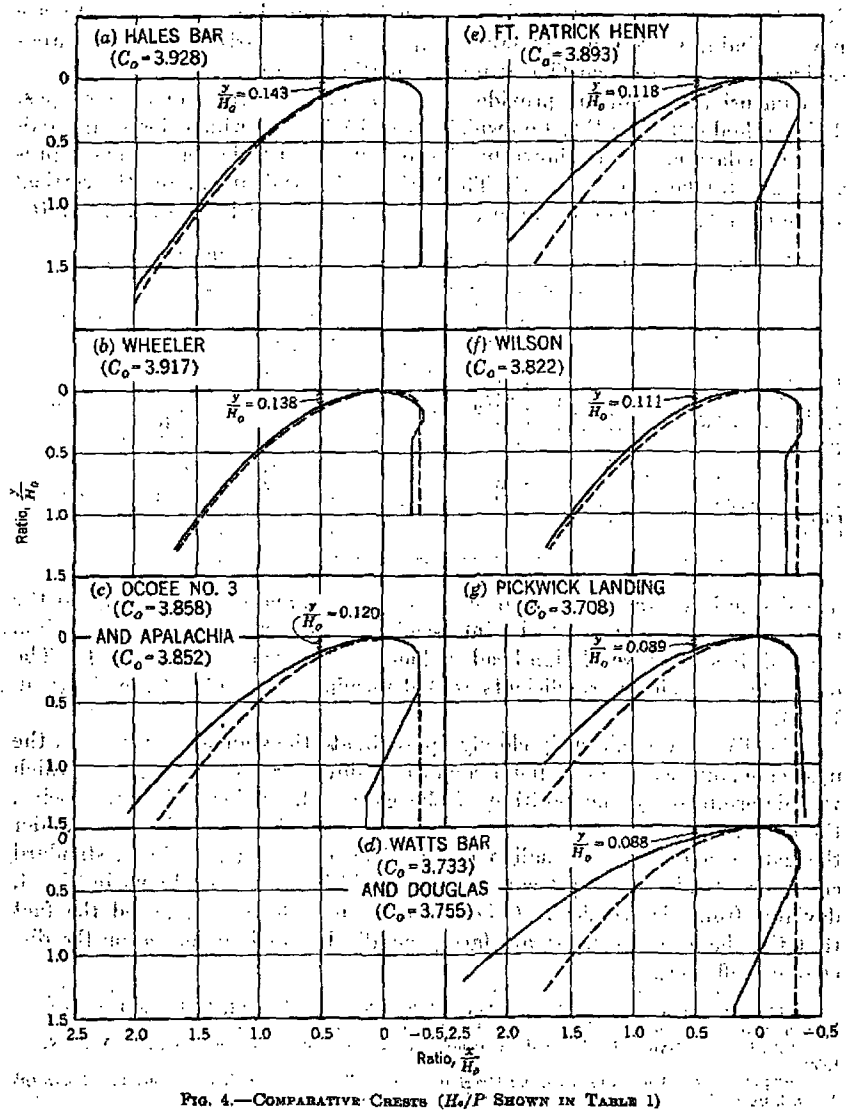

Fig. 4.—Comparative Crests (H_o/P Shown in Table 1)

The relationships between the discharge coefficient and the ratio of any head to the design head, H/H_o, are shown in Fig. 5. In Fig. 5(a) the value of C is plotted against H/H_o for the four crests—Apalachia, Ocoee No. 3, Hales Bar (Tennessee), and Fort Patrick Henry (Tennessee)—that most closely follow the standard crest shape. The maximum variation of the individual points from

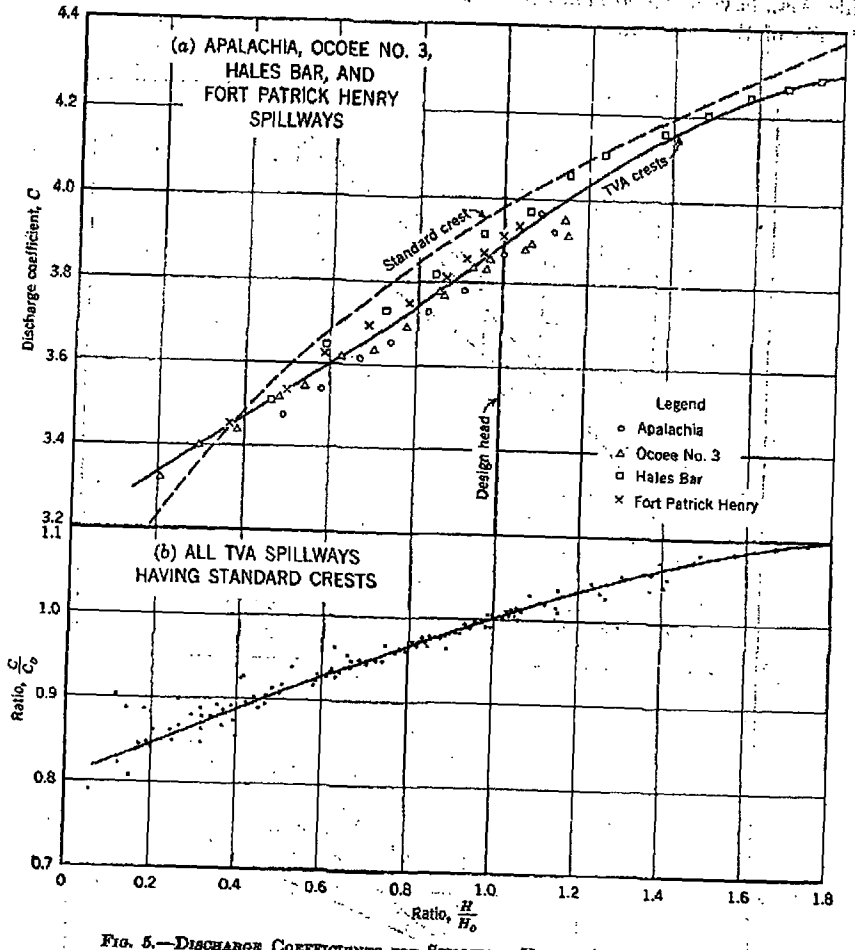

Fig. 5.—Discharge Coefficients for Spillways Having Standard Crests

the average curve for TVA crests is 0.5%. The standard-crest curve shown by the dashed line in Fig. 5 is that of W. P. Creager and J. D. Justin.[2] This curve is approximately 2% higher than the TVA curve. Fig. 5(b) is a dimensionless plot of the data from Figs. 3(a) and 3(b). The deviation of the points from the average curve is greater than in Fig. 5(a) because all crests are included, but for design purposes the curve should be useful. Actually, the

curve is more firmly established than it may appear because the curve itself obliterates several test points.

Irregular Spillway Crests.—The designation "irregular spillway crests" is used to distinguish between standard spillway crests and other crest forms. Only two of the TVA spillways, those at Chickamauga, Tenn., and Guntersville, Ala., have irregular spillway crests. Both are trapezoidal in cross section. Details of these spillway crests and the discharge coefficients computed using

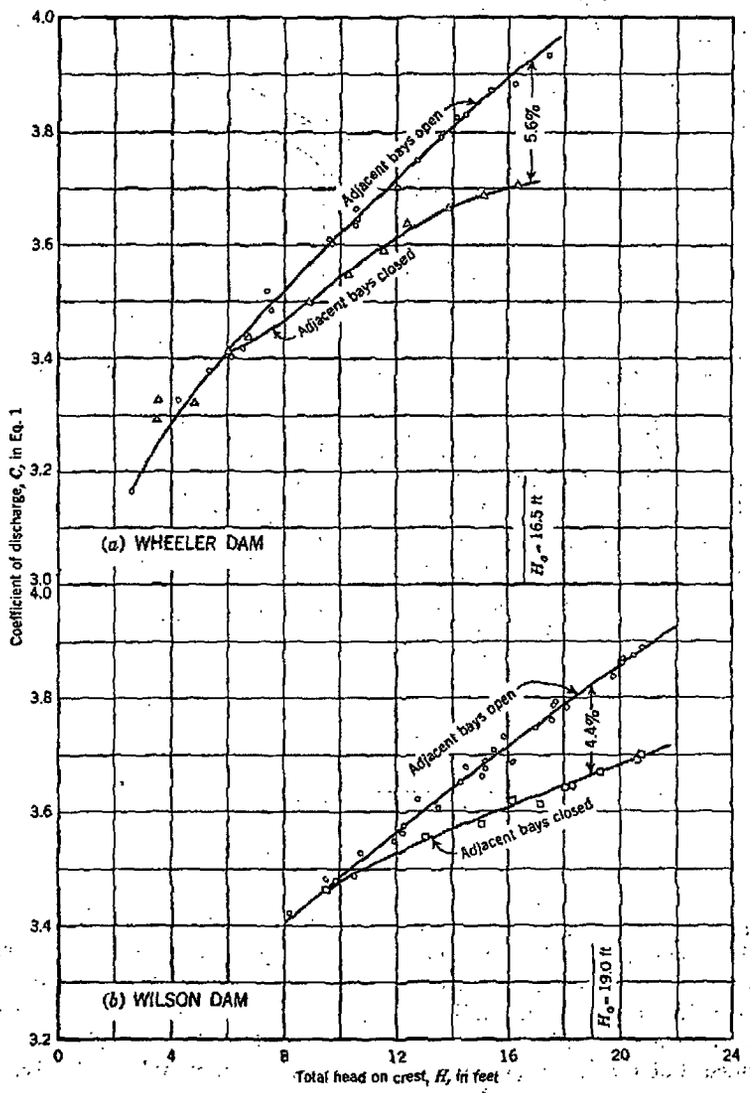

FIG. 6.—EFFECT OF OPERATION OF ADJACENT SPILLWAY BAYS

Eq. 1 from the model-study data are shown in Fig. 3(c). The two crests differ chiefly in the shape of the upstream and downstream edges of the crest and the height above the apron. Over the range of the tests of the Chickamauga spillway the coefficients are consistently from 3% to 5% greater than those for the Guntersville spillway. The additional height of the crest above the apron and the rounding of the near upstream edge of the Chickamauga crest would operate to increase the discharge coefficients.

The Effect of Operating Adjacent Spillway Bays.—In the TVA water-control operations, it is necessary to operate single spillway bays and groups of consecutive spillway bays. Because a greater contraction forms at a pier situated next to a closed bay, models of the Wilson and Wheeler spillways in Tennessee were tested with adjacent spillway bays open and closed to determine the difference in contraction effects at the piers.

Fig. 6 shows the head-coefficient relationships for the two conditions tested. The discharge coefficient at the design head was 5.6% higher at Wheeler Dam with adjacent bays opened and 4.4% higher at Wilson Dam than with these bays closed. These relationships show the importance of spillway pier contraction effects in spillway discharge determinations.

SUBMERGENCE DISCHARGE COEFFICIENTS FOR FLOW OVER SPILLWAY CRESTS

Chickamauga Dam, Guntersville Dam, Pickwick Landing Dam (Tennessee), and Watts Bar Dam are subject to submergence of the crest at periods of high discharge. To determine the effect of this submergence model tests were conducted by establishing a constant rate of discharge and varying the tailwater elevation to determine the relationship between the headwater and tailwater elevations. This procedure was repeated for several discharge rates covering the operating range at the dam.

Two flow conditions were observed in the model tests which are characterized as "plunging nappe" and "flowing nappe." In the condition of plunging nappe the discharge issuing from the spillway plunges down into the tailwater and appears to follow the boundary surface of the spillway.

In the condition of flowing nappe the flow is nearly horizontal, producing an undulating surface flow in the tailrace channel. The plunging nappe usually occurs with low submergence whereas the flowing nappe occurs with high submergence. When the headwater and tailwater head relationship at a constant rate of discharge was plotted for each series of tests, it was found that the change from plunging nappe to flowing nappe had no apparent effect on the discharge coefficient.

The results from these tests on the four spillways have been plotted in Fig. 7 in the dimensionless form, d/H, against C_s/C, in which d is the depth of submergence and H is the total head above the crest. The coefficient, C_s, was computed from Eq. 1 using the H-value for the submerged conditions; C was determined using the H-value for the free-flow condition.

No systematic variation of C_s/C could be determined for any variable except the (d/H)-ratio for any of the conditions tested. However, no relatively low discharges were tested because in practice the TVA installations can never be submerged at low discharges.

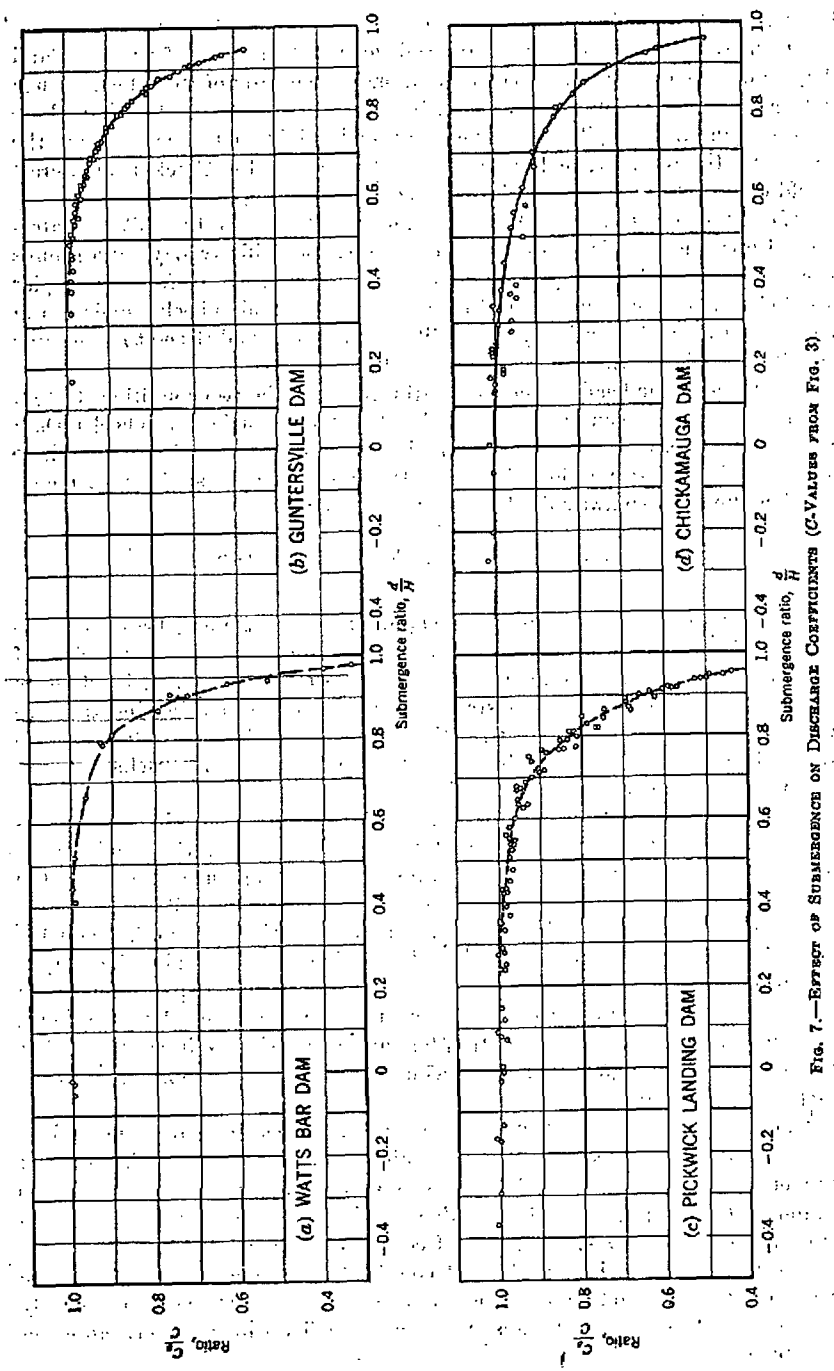

FIG. 7.—EFFECT OF SUBMERGENCE ON DISCHARGE COEFFICIENTS (C-VALUES FROM FIG. 3).

In Fig. 8 the four curves of Fig. 7 are shown on a single plot. Although the maximum spread between curves is about 10%, this is to be expected considering the wide range of crest shapes used in the tests.

FREE-DISCHARGE COEFFICIENTS FOR FLOW OVER VERTICAL LIFT GATES

The Pickwick Landing vertical lift gates are representative of this type of gate, which has been used on several TVA projects. In Fig. 9(a) are shown details of the lower spillway gate leaf. For heads greater than 2 ft, this gate is essentially a sharp-crested weir 40 ft long and 20 ft high with piers 7.5 ft thick at each end of the gate. Air intakes were installed in the sides of the piers just below the top of the gate to ventilate the underside of the nappe.[6] Model tests were conducted with the 1/50-scale, 3-bay spillway model.

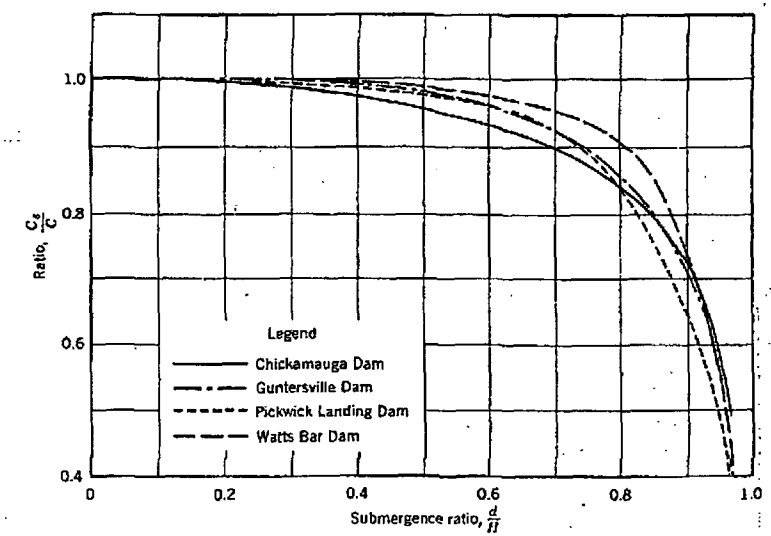

FIG. 8.—COMPARISON OF SUBMERGENCE EFFECTS FOR VARIOUS SPILLWAY CREST SHAPES

In Fig. 9(b) is shown the head-coefficient relationship for flow over the crest of the spillway gate. The coefficient, C, was computed from Eq. 1 using the top of the gate as crest elevation. The points define the head-coefficient relationship for heads between 3 ft and 28 ft. Each point was determined from the average of from 3 to 5 separate tests. A constant value of C equal to 3.428 is shown for heads in excess of 12 ft. For heads of from 12 ft to about 4 ft the model test curve shows a gradual rise in the coefficient, with an abrupt drop-off when the heads are approximately 4 ft and less. This curve takes the characteristic form for the coefficients of a sharp-crested weir, the rise and fall in the coefficient curve being due to the nappe clinging to the surface of the weir. This phenomenon is a function of the absolute head. Therefore, similarity between the model and prototype did not exist for prototype heads

[6] "Aeration of Spillways," by G. H. Hickox, *Transactions*, ASCE, Vol. 109, p. 537.

of less than 12 ft. Because the gate has a 10-in.-wide flat top, at low heads the prototype can be expected to exhibit discharge characteristics similar to those of the model. However, for a head in excess of about 2 ft the prototype can be expected to act similarly to a sharp-crested weir and to have a flat coefficient curve.

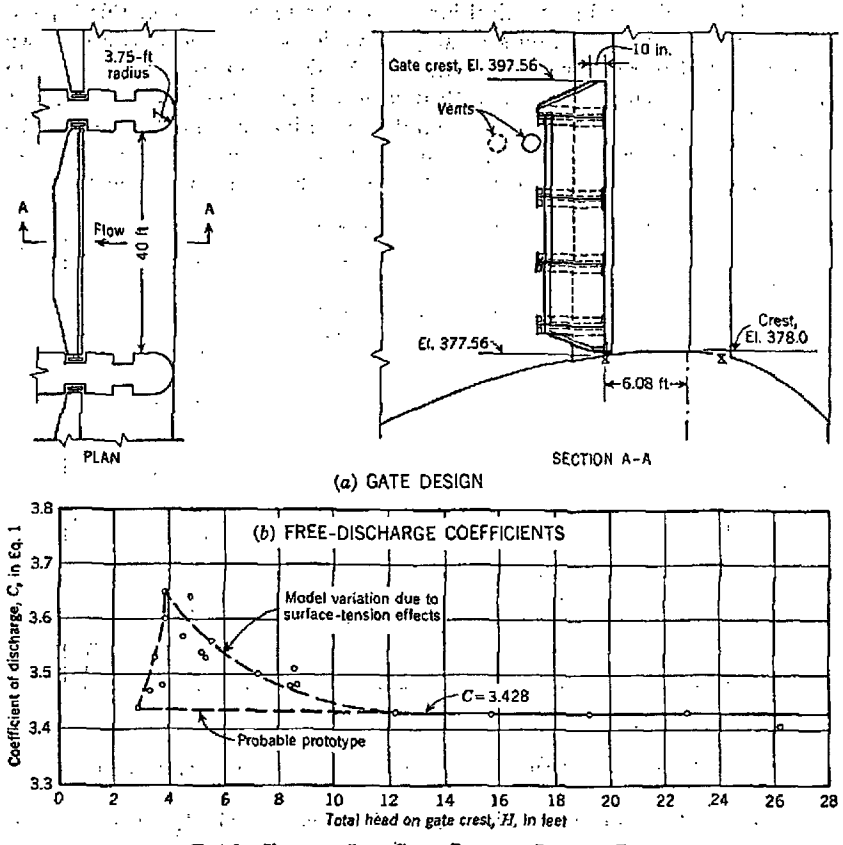

FIG. 9.—VERTICAL LIFT GATE, PICKWICK LANDING DAM

SUBMERGENCE DISCHARGE COEFFICIENTS FOR FLOW OVER A VERTICAL LIFT GATE

To obtain data on the effect of the submergence of flow over vertical-lift gates, model tests were conducted in a manner similar to that used in determining submergence effects on spillway crests. The coefficient, C_s, was computed from Eq. 1 in a manner similar to that used for the spillway crest data but using the top of gate as the crest elevation. Fig. 10 shows a plot of the headwater-tailwater relationships that have been determined. The data presented in Fig. 10 represent the rating of a three-bay, 1/50-scale model of the Pickwick Landing Dam. The total equivalent prototype crest width was

117.8 ft. The discharge was for three spillway bays. These curves illustrate the characteristic flow phenomena associated with this type of gate. Each constant-discharge curve begins with a horizontal line where the head-discharge relationship is not affected by the tailwater level. Just before the tailwater elevation reaches the gate crest level there is a drop in the headwater

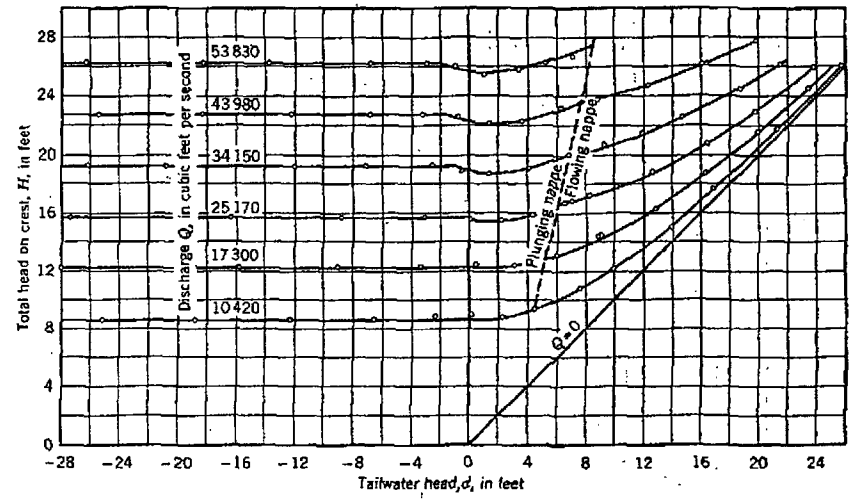

FIG. 10.—HEADWATER-TAILWATER RELATIONS FOR FLOW OVER A VERTICAL LIFT GATE (PROFILE SKETCH IN FIG. 11)

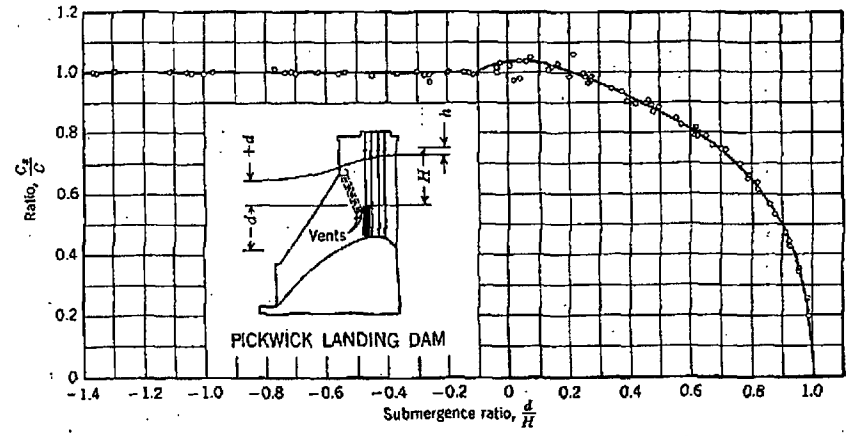

FIG. 11.—SUBMERGENCE EFFECT FOR FLOW OVER A VERTICAL LIFT SPILLWAY GATE (C = 2.428)

level for an increase in the tailwater level. Observations of the model operation showed that at this point the air vents, located in the sides of the piers just below the crest of the spillway gate, became submerged by the tailwater, reducing the contraction of the lower nappe issuing from the gate crest. The

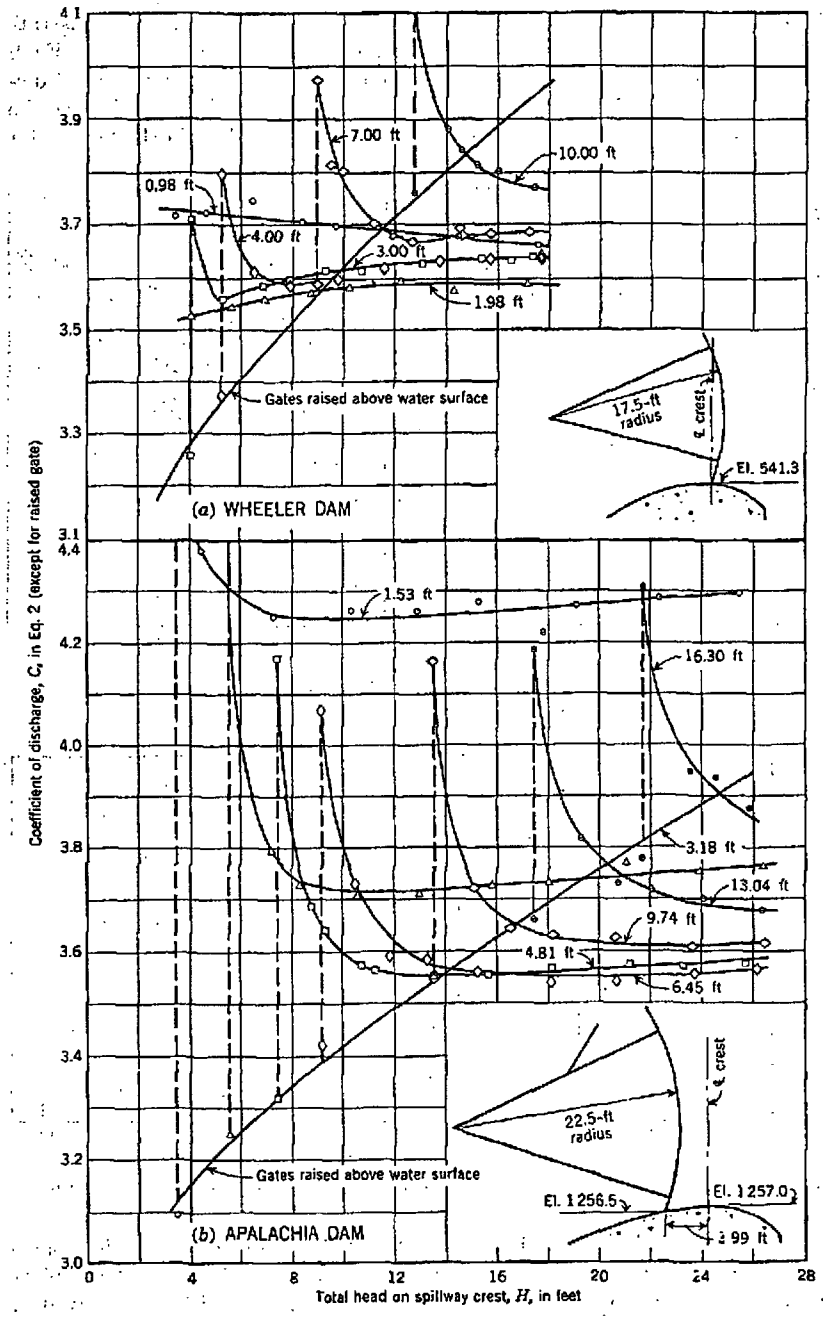

Fig. 12.—Tainter-Gate Spillway Discharge Coefficients (Dimensions on Curves Are Gate Openings)

discharge over the gate was thus increased with a consequent lowering of the headwater level.

The flow conditions of plunging nappe and flowing nappe, previously described, *also occurred in this type of flow.* In this case the change from one to the other is apparent in the data. The dashed line in Fig. 10 indicates the approximate location of the change. At these points the curves show a definite discontinuity in shape. The data of Fig. 10 can be reduced in coeffi-

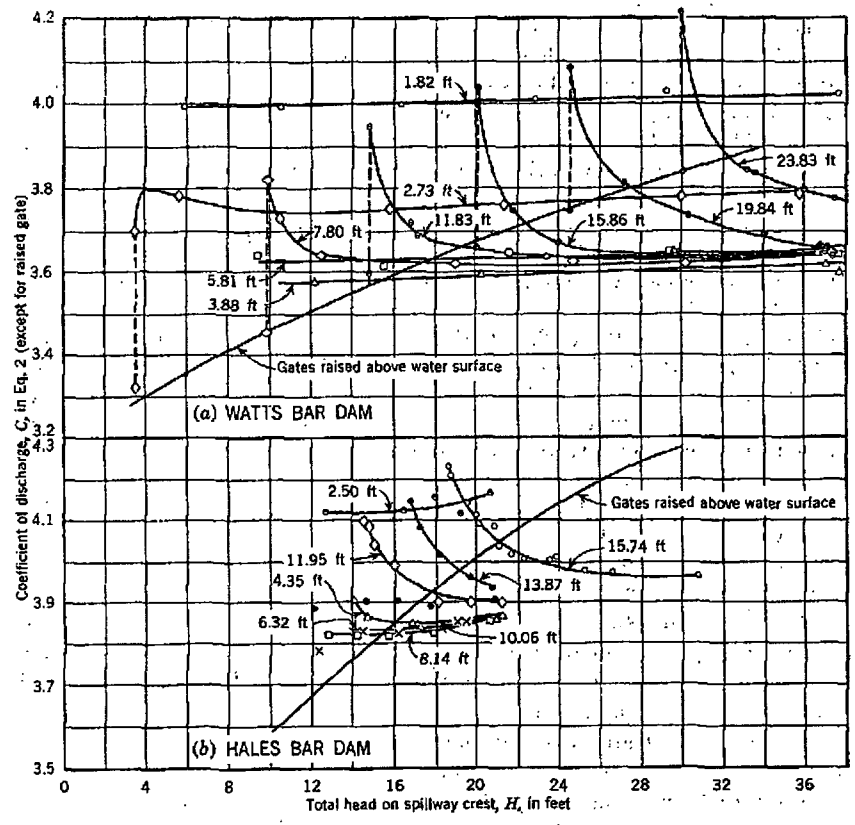

Fig. 13.—Tainter-Gate Spillway Discharge Coefficients (Dimensions on Curves Are Gate Openings)

cient form to the single-curve representation shown in Fig. 11. In this illustration, a constant value of C, equal to 3.428, was used in computing the ratio of C_s/C.

Discharge Coefficients for Flow Under Tainter Gates

The flow under Tainter gates mounted on curved crests is controlled by the geometry of three interrelated variables—*the crest shape, the gate,* and the gate setting. The major factors which influence the discharge relation-

ships are the position of the gate seal point with respect to the highest point of the spillway crest and the curvature of the upstream face of the gate. In obtaining the model data on the various TVA Tainter-gate installations no attempt has been made to determine the quantitative effect of these factors taken individually. The data presented in Figs. 12 and 13 for the gate settings at Wheeler Dam, Apalachia Dam, Watts Bar Dam, and Hales Bar Dam are not, therefore, applicable to other installations unless the several variables involved are similar.

Data on Tainter-gate coefficients previously published have, in most cases, been based on flow along a horizontal surface although many of these gates are installed on curved crests. The tests reported herein are for Tainter gates mounted on curved spillway crests where the pressure distribution differs considerably from that in a horizontal channel. The coefficients obtained from tests on a horizontal channel are not applicable to installations on curved crests.

The discharge coefficients for Figs. 12 and 13 were computed using Eq. 2, with the heads measured above the crest elevation. The curves designated "Gates raised above water surface" are the free-discharge curves taken from Figs. 3(*a*) and 3(*b*) for which *C*-values were computed using Eq. 1. The points connected by the dashed lines represent the point at which the water touched the bottom edge of the gate. The difference in the *C*-values is, of course, due to the use of Eq. 2 for the gate curve. The Hales Bar tests were not conducted in a manner that allowed the determination of the point of contact of the gate with the free water surface.

The gate opening was measured as the vertical distance above the crest. This definition leads to the somewhat peculiar variation in the coefficients for small gate openings. In Fig. 12(*a*) the data for Wheeler Dam are presented. The Wheeler gate was positioned, as shown in the insert, with the seal at the high point on the crest. With this design, except at the smallest opening, the coefficient curves for each gate position followed the general pattern of an increase in *C* for an increase in gate opening. In Fig. 12(*b*) the data for Apalachia Dam indicate that, when the gate seal is 3.99 ft downstream and 0.50 ft below the highest point on the crest, the coefficients for gate openings of less than 6.45 ft are increased materially with a decrease in gate opening. This is caused by an arbitrary use in Eq. 2 of an *H*-value as measured above the crest rather than as measured above the elevation of the spillway surface below the gate. Thus, although the *H*-value is consistently too small at the smaller gate openings, the effect becomes more appreciable and results in the increase in *C*.

Tainter-Gate Discharge Coefficients with Adjacent Gates Opened or Closed

The results of tests on the six-spillway-bay model of Wheeler Dam with one gate in operation and with six gates in operation are shown in Fig. 14. In operating with all six gates the contraction effect of the end piers was the same as that for the intermediate piers because the model was constructed

with half piers against the sidewalls of the flume. This operation thus represented the case in which all adjacent bays are open.

Effect of Model Scale on Free-Discharge Coefficients

In developing discharge ratings for prototype structures from model data, it is important that the scale at which the model is built be such that the coefficients determined are applicable to the prototype structure. One author has presented data to indicate that with an increase in the model size the discharge coefficients increase.[7] To study this relationship, a series of precise

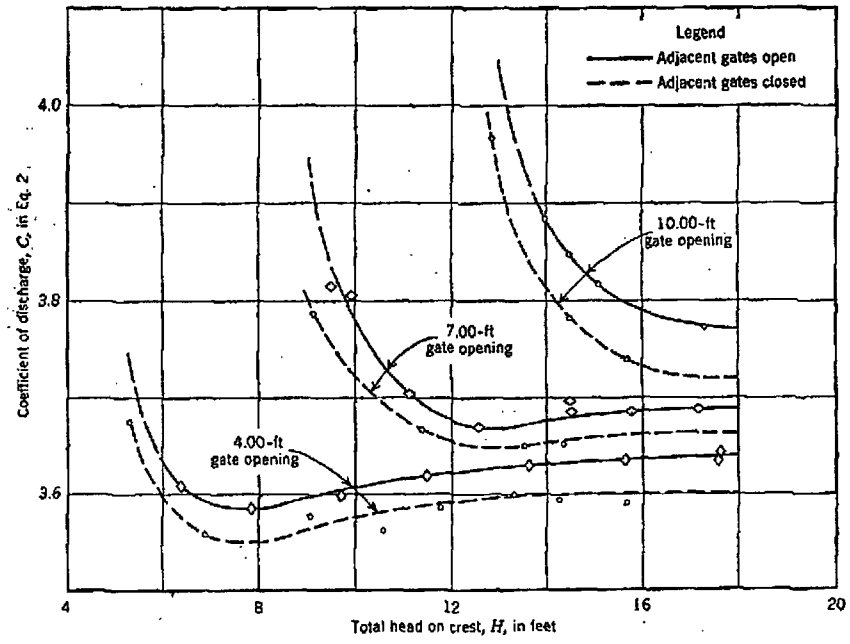

Fig. 14.—Tainter-Gate Discharge Coefficients, *C*, Wheeler Dam

tests was made at the TVA Hydraulic Laboratory under the joint sponsorship of the American Society for Engineering Education, the University of Tennessee (Knoxville) and the TVA.[8] In this study three models of Pickwick Landing spillway were constructed to scales of 1:50, 1:100, and 1:200. Each model consisted of a reproduction of three spillway bays. The shape of the spillway crest and the piers of Pickwick Landing Dam are shown in Figs. 2 and 9(*a*). Similar techniques were used in all tests with one exception. Hook gages reading to 0.0001 ft were used for the 1/200-scale

[7] "Überfallversuche in Berschiedener Modellgrosse," by F. Eisner, The Prussian Experiment Station for Hydraulic Structures and Shipbuilding, Berlin, 1933.

[8] "A Study of the Effect of Model Size on Spillway Coefficients," by C. R. Ownbey, thesis presented in 1949 to the University of Tennessee at Knoxville, in partial fulfilment of the requirements for the degree of Master of Science.

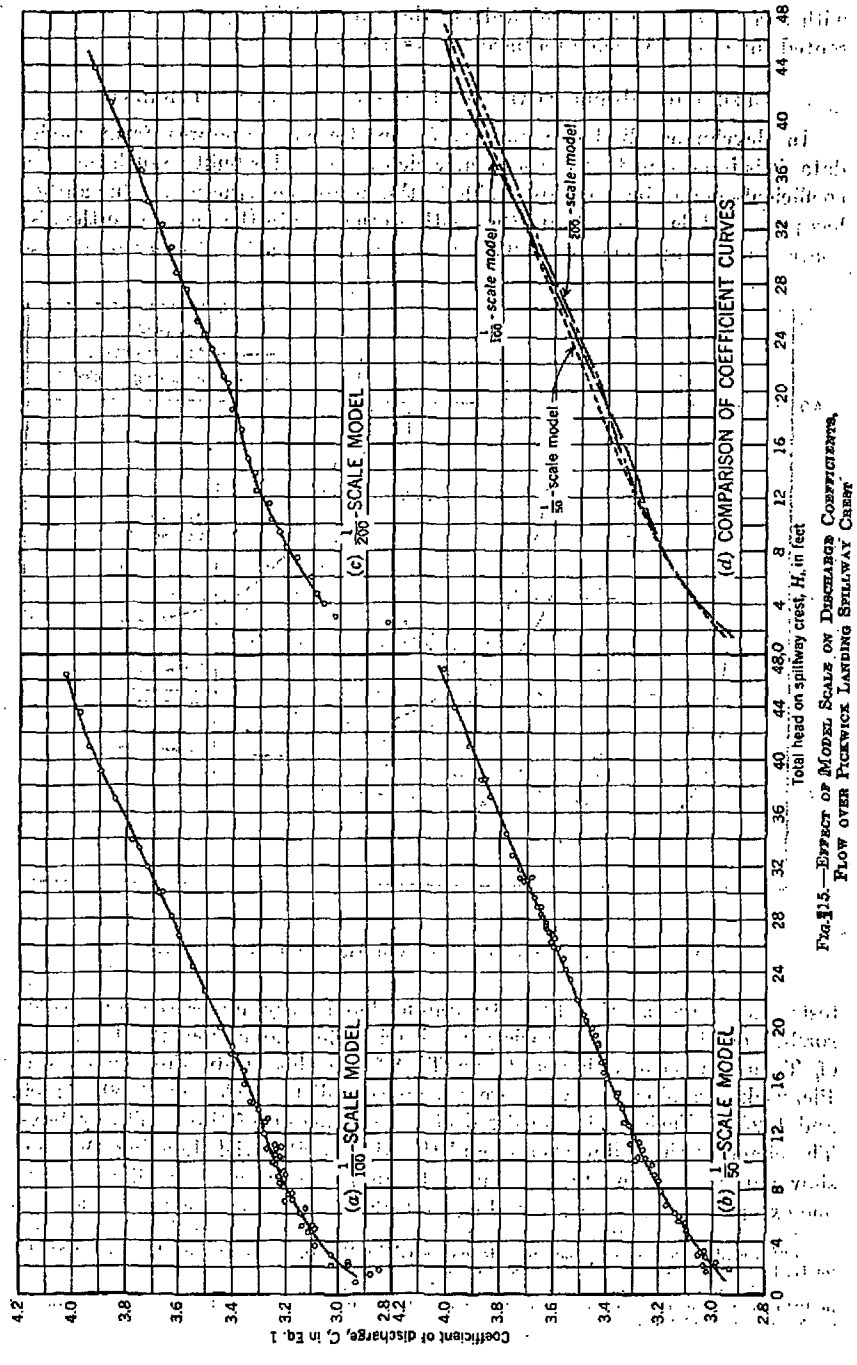

FIG. 15.—EFFECT OF MODEL SCALE ON DISCHARGE COEFFICIENTS, FLOW OVER PICKWICK LANDING SPILLWAY CREST

tests, and gages reading to 0.001 ft were used in the 1/50-scale tests and 1/100-scale tests.

Discharge coefficients for free flow over the crest of each model are shown in Figs. 15(*a*), 15(*b*), and 15(*c*). The coefficients of discharge were computed using Eq. 1. Each curve was drawn through the average of the plotted points.

A comparison of the three coefficient curves is shown in Fig. 15(*d*). The maximum spread of the curves does not exceed 2%. For prototype heads between 2 ft and 8 ft, the three coefficient curves are almost identical. At 13 ft the coefficient curve for the 1/100-scale model is approximately 1% lower than those for the 1/50-scale model and the 1/200-scale model. At 43 ft the curve for the 1/100-scale model is 1% higher than the data for the 1/50-scale model, and that of the 1/200-scale model is 1% lower than that of the 1/50-scale model. Because there is no consistent relationship between the coefficient curves, it is logical to conclude that these variations are merely the result of experimental error and that the model scale did not affect the stage-coefficient relationship. The close agreement of the coefficient curves at the three scales supports the validity of the preparation of prototype ratings based on model tests.

ACKNOWLEDGMENTS

The model studies were made under the general direction of Albert S. Fry, M. ASCE, chief of the Hydraulic Data Branch of the TVA, and under the immediate supervision of G. H. Hickox, M. ASCE, former head of the TVA Hydraulic Laboratory, and Rex A. Elder, M. ASCE, head of the TVA Hydraulic Laboratory. The assistance of Jack C. Jones, J. M. ASCE, is acknowledged in making the computations and preparing the illustrations in this paper. The writer also acknowledges the many helpful suggestions made by Mr. Hickox and Mr. Elder.

APPENDIX. NOTATION

The following letter symbols, adopted for use in the paper and for the guidance of discussers, conform essentially with American Standard Letter Symbols for Hydraulics (ASA-Z10.2-1942), prepared by a committee of the American Standards Association with Society representation, and approved by the Association in 1942:

C = coefficient of discharge for any head:
- C_o = coefficient of discharge for the design head;
- C_s = coefficient of discharge for submerged flow;

D = depth of flow above the crest, in feet (Fig. 1(*a*));
D_1 = depth, bottom of gate to water surface, in feet (Fig. 1(*b*));
d = submergence tailwater, measured above the crest, in feet (Fig. 1(*a*));
g = acceleration due to gravity, in feet per second per second;

H = total head above the crest, including the velocity head of approach, in feet (Fig. 1);
H_o = design head for a standard crest, including the velocity head of approach, in feet;
h = velocity head of approach, $v^2/2g$, in feet (Fig. 1);
L = spillway crest length, in feet;
P = depth of the approach channel, crest to river bed, in feet (Fig. 1(*a*));
Q = total discharge, in cubic feet per second;
v = average velocity of approach, in feet per second; and
X, Y = crest coordinates, in feet.

AMERICAN SOCIETY OF CIVIL ENGINEERS

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TRANSACTIONS

Paper No. 2856

WATER CONTROL IN CENTRAL AND SOUTHERN FLORIDA

By Harold A. Scott,[1] M. ASCE

Synopsis

This paper describes the historical efforts made to provide drainage and water control for central and southern Florida. Distribution and utilization of water in the comprehensive plan for flood control and multiple purposes are described. The need for a secondary water-control plan is emphasized.

Introduction

The area described in this paper (Fig. 1) lies south of an east-west line through Lake Harney (about 35 miles north of Cocoa) in Florida in the St. Johns River basin and east of the ridge that extends through Haines City and Sebring. The ridge divides the waters which flow into the Atlantic Ocean and those which flow into the Gulf of Mexico. Water-control problems are quite common throughout the area, although there are a few variations in topography and soil. The area consists of approximately 15,000 sq miles of groveland, pastures, rich agricultural lands, lakes, and marshlands. Elevations range from approximately 7 ft in the vicinity of Miami and 15 ft around Lake Okeechobee to 80 ft in the area of the headwaters of the Kissimmee River basin. (All stages and elevations throughout this paper refer to mean sea level data.) However, the lands of a large part of the area are extremely flat, and natural water courses are not common. Except for the St. Johns River, the Kissimmee River, Fisheating Creek, and a few minor streams, most of the water control is accomplished by man-made canals and drainage districts. Soils in the area vary from sand to peat with a small amount of marl. The areas with higher elevations in the St. Johns and Kissimmee River basins consist of sand mixed with a small amount of organic material in the upper 6 in. to 12 in. In the low areas and marshes, deposits of peat of thicknesses ranging to several feet are found. The Everglades is covered with a layer of peat of thickness ranging to approximately 15 ft at Lake Okeechobee and gradually diminishing to zero at

Note.—Published, essentially as printed here, in October, 1954, as *Proceedings-Separate No. 581*. Positions and titles given are those in effect when the paper was approved for publication in *Transactions*.
[1] Cons. Engr., Reynolds, Smith, and Hills, Jacksonville, Fla.

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Tennessee Valley Authority
Division of Water Control Planning
Engineering Laboratory

TAINTER GATE RATING DATA
DETERMINED FROM EIGHT TVA MODEL STUDIES

Norris, Tennessee
March 1962

TAINTER GATE RATING DATA

DETERMINED FROM EIGHT TVA MODEL STUDIES

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Tainter Gate Ratings

Basic Model and Prototype Data

	MODEL					PROTOTYPE		
Project	Model Scale	No. of Spill-way Bays	Crest Length L	Approach Width W	Up-stream Depth P	Crest Elev.	Design Head H_o	Pier Nose Radius R
Apalachia	1:28.72	6	6.684	8.00	3.38	1257.0	23.0	3.00
Boone	1:50	5	3.480	(1)	(1)	1350.0	35.0	12.75(2) 11.25(3) 3.50(4)
Ft. Patrick Henry	1:15	1	2.333(5)	2.77(5)	2.29	1228.0	35.0	3.25
Hales Bar	1:34.76	6	6.908(6) 6.905(7)	7.94	0.921	616.0	18.0	3.00
Hiwassee	1:55	7	4.050	8.00	6.35	1503.5		3.00
Watts Bar	1:35	6	6.866	8.00	1.5	713.0	23.5	3.25
Wheeler	1:34.35	6	6.984	7.97	1.253	541.3	16.5	2.50

(1) Variable because approach was reproduced in model.

(2) Right end pier.

(3) Left end pier.

(4) Intermediate piers.

(5) Except as noted on data tabulations.

(6) Gates partially opened.

(7) Gates raised above water surface.

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Definition of Symbols

Q = Total discharge in cubic feet per second.

D = Depth of flow above crest in feet.+

D_1 = Depth, bottom of gate to water surface.*

H = Total head above crest, including velocity head of approach in feet.*

H_o = Design head for standard crest, including velocity head of approach, in feet.

h = Velocity head of approach in feet.*

C = Coefficient of discharge for any head.

G.O. = Gate opening - vertical distance above spillway crest in feet.

b = Shortest distance between spillway surface and gate lip in feet.*

L = Length of spillway crest in feet.

P = Depth of model approach channel, crest to river bed, in feet.+

W = Width of model approach in feet.

x = Horizontal distance from upstream face of dam in feet.*

y = Vertical distance above spillway crest in feet.*

Discharge Equations

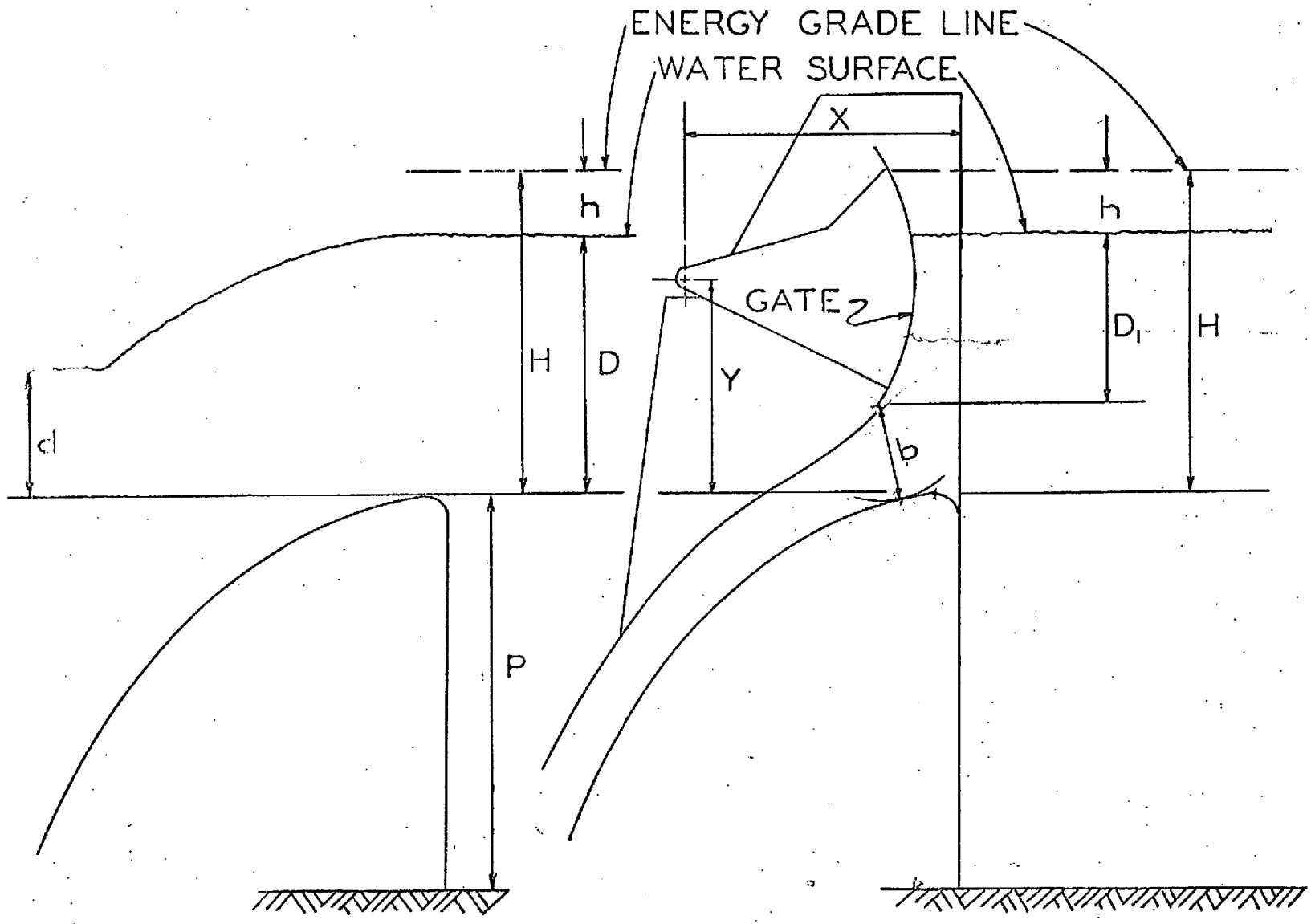
For flow under a gate:

$$Q = CL\ [H^{3/2} - (D_1 + h)^{3/2}] \qquad (A)$$

For flow over a spillway crest with the spillway gate raised above the water surface:

$$Q = CLH^{3/2} \qquad (B)$$

+See Figure 1(a) on page 4.
*See Figure 1(b) on page 4.



[a] FIGURE 1 [b]

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Apalachia Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.0532	0.117	0.826	0.000	1.53	3.36	3,650	3.09+ 5.19*
	0.154	0.828	0.000		4.42	3,660	4.38
	0.251	1.071	0.000		7.21	4,734	4.25
	0.358	1.305	0.000		10.28	5,769	4.26
	0.449	1.472	0.000		12.90	6,507	4.26
	0.533	1.618	0.000		15.31	7,152	4.28
	0.663	1.812	0.000		19.04	8,010	4.27
	0.778	1.973	0.000		22.34	8,721	4.28
	0.886	2.115	0.000		25.45	9,349	4.29
0.1107	0.190	1.796	0.000	3.18	5.46	7,939	3.25+ 4.43*
	0.246	1.838	0.000		7.07	8,125	3.80
	0.287	1.994	0.000		8.24	8,814	3.73
	0.367	2.302	0.000		10.54	10,180	3.71
	0.450	2.595	0.000		12.92	11,470	3.72
	0.549	2.916	0.000		15.77	12,890	3.73
	0.627	3.137	0.000		18.01	13,870	3.73
	0.732	3.451	0.000		21.02	15,250	3.77
	0.831	3.681	0.000		23.87	16,270	3.76
	0.917	3.888	0.000		26.34	17,190	3.76
0.1676	0.257	2.888	0.000	4.81	7.38	12,770	3.32+ 4.17*
	0.303	2.890	0.000		8.70	12,770	3.69
	0.393	3.330	0.000		11.29	14,720	3.57
	0.469	3.709	0.000		13.47	16,400	3.57
	0.545	4.066	0.000		15.65	17,970	3.56
	0.631	4.444	0.000		18.12	19,640	3.57
	0.739	4.866	0.000		21.22	21,510	3.57
	0.373	3.221	0.000		10.71	14,240	3.57
	0.322	2.977	0.000		9.25	13,160	3.64
	0.811	5.124	0.000		23.29	22,650	3.57
	0.894	5.418	0.000		25.68	23,950	3.58

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

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Apalachia Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.2247	0.364	4.184	0.000	6.45	10.45	18,490	3.73
	0.318	4.098	0.000		9.13	18,110	3.42+ 4.08*
	0.411	4.399	0.000		11.80	19,450	3.59
	0.461	4.752	0.000		13.24	21,010	3.58
	0.531	5.181	0.000		15.25	22,900	3.56
	0.627	5.742	0.001		18.04	25,380	3.54
	0.718	6.224	0.001		20.65	27,510	3.55
	0.825	6.771	0.001		23.72	29,930	3.56
	0.911	7.179	0.001		26.19	31,730	3.56
0.3393	0.469	7.647	0.001	9.74	13.50	33,800	3.55+ 4.16*
	0.526	7.490	0.001		15.14	33,110	3.72
	0.574	7.832	0.001		16.51	34,620	3.65
	0.631	8.344	0.001		18.15	36,880	3.63
	0.717	9.089	0.001		20.62	40,180	3.63
	0.821	9.882	0.001		23.61	43,680	3.61
	0.919	10.58	0.002		26.42	46,770	3.62
0.4541	0.604	11.54	0.002	13.04	17.40	51,010	3.66+ 4.19*
	0.617	11.84	0.002		17.78	52,340	4.22
	0.720	11.84	0.002		20.74	52,340	3.73
	0.668	11.42	0.002		19.24	50,480	3.81
	0.765	12.34	0.002		22.03	54,550	3.72
	0.838	13.10	0.002		24.12	57,910	3.70
	0.915	13.84	0.003		26.36	61,180	3.68
0.5677	0.751	16.55	0.004	16.30	21.68	73,160	3.77+ 4.31*
	0.895	17.14	0.004		25.82	75,770	3.87
	0.849	16.72	0.004		24.50	73,910	3.94
	0.815	16.24	0.004		23.52	71,790	3.95

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

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Apalachia Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D	Q	h	H	Q	C
ft.	cfs	ft.	ft.	cfs	
0.117	0.826	0.000	3.36	3,651	3.09
0.190	1.796	0.000	5.46	7,939	3.25
0.257	2.888	0.000	7.38	12,770	3.32
0.318	4.098	0.000	9.13	18,110	3.42
0.397	5.813	0.001	11.42	25,700	3.46
0.466	7.542	0.001	13.41	33,340	3.54
0.536	9.512	0.001	15.43	42,050	3.62
0.592	11.17	0.002	17.06	49,380	3.65
0.659	13.39	0.003	19.00	59,190	3.72
0.728	15.80	0.004	21.01	69,840	3.77
0.800	18.66	0.005	23.12	82,480	3.86
0.866	21.57	0.006	25.05	95,350	3.96
0.894	22.44	0.007	25.87	99,190	3.93
0.469	7.647	0.001	13.50	33,800	3.55
0.604	11.54	0.002	17.40	51,010	3.66
0.751	16.55	0.004	21.68	73,160	3.77

Tennessee Valley Authority

Boone Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.040	0.085	0.2810		2.00	4.25	4,968	3.26+ 5.28*
	0.149	0.3552			7.45	6,279	4.74
	0.234	0.4567			11.70	8,073	4.72
	0.274	0.4937			13.70	8,727	4.70
	0.351	0.5661			17.55	10,010	4.70
	0.428	0.6285			21.40	11,110	4.72
	0.504	0.6857			25.20	12,120	4.73
	0.581	0.7385			29.05	13,050	4.72
	0.626	0.7663			31.30	13,550	4.71
	0.700	0.8087			35.00	14,300	4.69
	0.110	0.3020			5.50	5,339	4.82
0.500	0.617	6.250		25.00	30.85	110,500	3.70+ 4.04*
	0.680	6.598	Negligible		34.00	116,600	3.92
	0.721	6.715			36.03	118,700	3.80
	0.633	6.456			33.15	114,100	3.91
0.400	0.493	4.355		20.00	24.65	76,990	3.61+ 3.93*
	0.558	4.638			27.90	81,990	3.77
	0.615	4.906			30.75	86,730	3.69
	0.685	5.279			34.25	93,320	3.66
	0.708	5.425			35.40	95,900	3.67
0.300	0.379	2.964		15.00	18.95	52,400	3.65+ 4.04*
	0.459	3.175			22.95	56,130	3.68
	0.517	3.453			25.85	61,040	3.67
	0.575	3.726			28.75	65,870	3.67
	0.648	4.044			32.40	71,490	3.67
	0.724	4.344			36.20	76,790	3.67

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

Tennessee Valley Authority

Boone Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.200	0.270	1.672		10.00	13.50	29,560	3.42+ 3.94*
	0.334	1.856			16.70	32,810	3.71
	0.409	2.133			20.45	37,710	3.69
	0.469	2.413			23.45	42,660	3.82
	0.539	2.626			26.95	46,420	3.80
	0.592	2.790			29.60	49,320	3.82
	0.670	2.896			33.50	51,200	3.68
	0.723	3.035			36.15	53,650	3.69
0.100	0.152	0.7015	Negligible	5.00	7.60	12,400	3.40+ 4.25*
	0.218	0.8119			10.90	14,350	3.81
	0.264	0.9232			13.20	16,320	3.83
	0.334	1.061			16.70	18,760	3.82
	0.391	1.174			19.55	20,750	3.86
	0.474	1.311			23.70	23,180	3.86
	0.599	1.496			29.95	26,450	3.87
	0.537	1.403			26.85	24,800	3.85
	0.630	1.537			31.50	27,170	3.87
	0.719	1.654			35.95	29,240	3.87
	0.177	0.7320			8.85	12,940	3.96
	0.234	0.8555			11.70	15,120	3.84
	0.299	0.9897			14.95	17,500	3.81

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

Tennessee Valley Authority

Boone Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D	Q	h	H	Q	C
ft.	cfs	ft.	ft.	cfs	
0.323	2.312	Negligible	16.15	40,870	3.62
0.367	2.928		18.35	51,760	3.79
0.432	3.575		21.60	63,200	3.62
0.492	4.399		24.60	77,770	3.66
0.545	5.166		27.25	91,320	3.69
0.609	6.155		30.45	108,800	3.72
0.664	7.044		33.20	124.500	3.74
0.706	7.809		35.30	138,000	3.78
0.252	1.522		12.60	26,910	3.46
0.190	0.9783		9.50	17,290	3.39
0.135	0.5736		6.75	10,140	3.33
0.088	0.2952		4.40	5,220	3.25
0.048	0.1170		2.40	2,068	3.21

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.200	2.214	4.040	0.000	3.00	33.21	3,520	3.97
	2.530	4.332	0.000		37.95	3,775	3.97
	1.714	3.511	0.000		25.71	3,060	3.95
	1.412	3.156	0.000		21.18	2,750	3.94
	1.110	2.755	0.000		16.65	2,401	3.92
	0.683	2.076	0.000		10.24	1,809	3.89
	0.556	1.831	0.000		8.34	1,596	3.88
	0.500	1.711	0.000		7.50	1,491	3.88
	0.424	1.552	0.000		6.36	1,352	3.91
	0.350	1.515	0.000		5.25	1,320	4.36
	0.362	1.510	0.000		5.43	1,316	4.24
	0.360	1.578	0.000		5.40	1,375	4.45
0.333	1.464	4.895	0.003	5.00	22.00	4,266	3.69
	1.133	4.218	0.003		17.04	3,676	3.68
	0.917	3.692	0.003		13.80	3,217	3.66
	0.742	3.217	0.002		11.16	2,803	3.65
	1.692	5.331	0.004		25.44	4,646	3.70
	1.913	5.716	0.004		28.76	4,981	3.71
0.667	1.226	7.822	0.010	10.00	18.54	6,816	3.55
	2.108	11.21	0.013		31.82	9,768	3.60
	1.556	9.169	0.012		23.52	7,990	3.55
	1.915	10.59	0.013		28.92	9,230	3.60
	0.995	6.828	0.009		15.06	5,950	3.61
	2.186	11.46	0.013		32.99	9,986	3.60
1.133	1.625	15.23	0.030	17.00	24.83	13,270	3.73
	1.947	17.28	0.034		29.72	15,060	3.69
	2.124	18.33	0.035		32.39	15,970	3.68
	2.361	19.68	0.036		35.96	17,150	3.68
1.400	1.966	21.05	0.049	21.00	30.22	18,340	3.79
	2.105	22.08	0.051		32.34	19,240	3.77
	2.359	23.67	0.052		36.16	20,630	3.72
	1.925	20.72	0.049		29.61	18,060	3.80
	1.925	20.83	0.049		29.61	18,150	3.82
	1.828	20.11	0.048		28.14	17,520	3.84
	1.807	20.03	0.048		27.82	17,460	3.87
	1.786	19.94	0.048		27.51	17,380	3.89
	1.766	19.92	0.049		27.22	17,360	3.92

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
1.667	2.326	27.84	0.073	25.00	35.98	24,260	3.86
	2.296	27.65	0.073		35.49	24,100	3.88
	2.253	27.40	0.073		34.89	23,880	3.89
	2.233	27.26	0.073		34.59	23,760	3.91
	2.179	26.96	0.073		33.78	23,493	3.94
	2.144	26.74	0.073		33.26	23,300	3.96
	1.995	27.89	0.086		31.22	24,304	4.37
0.867	2.396	15.55	0.022	13.00	36.27	13,550	3.65
	2.036	13.99	0.021		30.86	12,190	3.63
	1.756	12.66	0.020		26.64	11,030	3.62
	1.408	10.85	0.018		21.39	9,455	3.62
	1.281	10.15	0.016		19.46	8,845	3.64
	1.070	9.504	0.016		16.29	8,282	3.96
	1.149	9.582	0.016		17.48	8,350	3.75
	1.136	9.548	0.016		17.28	8,320	3.77
0.533	1.141	6.240	0.007	8.00	17.22	5,438	3.58
	1.466	7.389	0.008		22.11	6,439	3.61
	1.797	8.391	0.008		27.08	7,312	3.63
	2.378	9.885	0.009		35.80	8,614	3.64
0.433	1.991	7.402	0.006	6.50	29.96	6,450	3.66
	1.595	6.497	0.006		24.02	5,662	3.65
	1.238	5.544	0.005		18.64	4,831	3.62
	0.765	4.036	0.004		11.54	3,517	3.61

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D ft.	Q cfs	h ft.	H ft.	Q cfs	C
1.274	13.09	0.027	19.52	11,410	3.78
1.440	16.17	0.038	22.17	14,090	3.86
1.691	21.55	0.059	26.25	18,780	3.99
1.890	26.26	0.080	29.55	22,880	4.07
1.972	28.34	0.090	30.93	24,700	4.10
0.9916	8.551	0.014	15.09	7,451	3.63
0.8044	6.045	0.008	12.18	5,268	3.54
0.5831	3.578	0.003	8.79	3,118	3.42
0.3610	1.673	0.001	5.43	1,458	3.29

This is for special 1:15 model tests in which Fort Pat crest was replaced with a standard crest for comparison purposes.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

Trunnion Locations						
b	L	x	y	D	h	Q
ft.	ft.	ft.	ft.	ft.	ft.	cfs
0.200	2.325	2.486	1.430	3.069	0.001	4.388
				3.048	0.001	4.374
				2.124	0.001	3.605
				1.282	0.001	2.734
				0.577	0.001	1.700
				0.283	0.000	0.999
0.203	2.325	2.808	0.550	0.601	0.001	1.714
				1.361	0.001	2.757
				2.240	0.001	3.600
				2.771	0.001	4.016
0.200	2.325	2.808	0.550	0.217	0.000	0.745
				0.402	0.001	1.309
				0.934	0.001	2.210
				1.882	0.001	3.244
				2.720	0.001	3.912
0.200	2.325	2.822	-0.077	1.389	0.001	2.652
				2.444	0.001	3.590
				1.945	0.001	3.180
				0.539	0.001	1.556
0.701	2.320	2.410	1.924	2.959	0.017	15.14
				2.374	0.017	13.27
				1.856	0.015	11.32
				0.970	0.009	6.688
				1.393	0.013	9.186
0.700	2.320	2.732	1.044	0.952	0.008	6.469
				1.525	0.012	9.396
				2.189	0.015	11.95
				3.047	0.015	14.52
0.700	2.320	2.746	0.417	0.795	0.007	5.691
				0.893	0.008	6.140
				1.488	0.012	9.080
				2.150	0.014	11.50
				2.727	0.014	13.25
1.199	2.320	2.333	2.418	1.305	0.027	12.94
				1.434	0.029	13.97
				1.641	0.035	16.00
				2.117	0.043	20.00
				2.765	0.048	24.40

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

Trunnion Locations						
b ft.	L ft.	x ft.	y ft.	D ft.	h ft.	Q cfs
1.199	2.320	2.655	1.538	2.746	0.045	23.29
				2.337	0.042	20.77
				1.787	0.036	16.90
				1.444	0.028	13.89
1.199	2.320	2.669	0.911	1.500	0.030	14.34
				1.803	0.036	16.92
				2.389	0.042	20.84
				2.851	0.043	23.43
1.698	2.320	2.579	2.032	1.926	0.065	23.58
				2.173	0.073	26.47
				2.465	0.080	29.47
1.701	2.320	2.593	1.405	1.798	0.063	22.55
				1.978	0.067	24.25
				2.278	0.076	27.62
				2.456	0.080	29.49
0.199	2.328	2.397	1.897	0.546	0.001	1.699
				1.129	0.001	2.698
				1.944	0.002	3.668
				2.949	0.002	4.594
0.199	2.328	2.917	1.118	2.835	0.001	4.102
				2.103	0.001	3.501
				1.276	0.001	2.661
				0.620	0.001	1.731
0.197	2.329	3.100	0.200	0.651	0.001	1.703
				1.461	0.001	2.693
				2.470	0.001	3.565
				3.099	0.001	4.013
0.198	2.329	3.018	-0.421	0.570	0.001	1.583
				1.439	0.001	2.645
				1.950	0.001	3.112
				2.549	0.001	3.534
0.200	2.328	3.018	-0.421	0.298	0.000	1.219
				0.424	0.001	1.346
				1.022	0.001	2.217

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

b	L	Trunnion Locations x	Trunnion Locations y	D	h	Q
ft.	ft.	ft.	ft.	ft.	ft.	cfs
0.699	2.328	2.397	2.397	1.000	0.010	7.197
				1.338	0.013	9.270
				1.623	0.016	10.78
				2.074	0.018	12.86
				2.547	0.019	14.64
				2.862	0.019	15.71
0.699	2.328	2.917	1.618	1.007	0.010	7.094
				1.585	0.014	9.894
				2.199	0.016	12.31
				2.848	0.017	14.48
0.699	2.328	3.100	0.700	0.923	0.010	7.094
				1.036	0.010	7.133
				1.619	0.013	9.609
				2.163	0.014	11.60
				2.894	0.015	13.76
0.701	2.328	3.018	0.079	1.028	0.010	7.107
				1.663	0.012	9.609
				2.234	0.013	11.46
				2.911	0.014	13.52
1.199	2.328	2.917	2.118	1.628	0.035	16.08
				1.944	0.040	18.41
				2.349	0.044	21.30
				2.804	0.046	24.13
1.198	2.328	3.100	1.200	1.641	0.034	15.90
				1.972	0.036	18.05
				2.323	0.040	20.31
				2.797	0.042	22.93
1.200	2.328	3.018	0.579	1.483	0.036	15.88
				1.629	0.034	15.87
				2.001	0.037	18.08
				2.292	0.039	19.86
				2.571	0.040	21.43
1.699	2.328	2.917	2.618	2.016	0.083	27.31
				2.158	0.078	27.28
				2.217	0.079	27.83

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

b	L	Trunnion Locations x	Trunnion Locations y	D	h	Q
ft.	ft.	ft.	ft.	ft.	ft.	cfs
0.200	2.333	3.115	1.451	0.415	0.001	1.557
				1.081	0.001	2.723
				1.882	0.002	3.677
				3.083	0.002	4.760
0.200	2.333	3.456	0.578	0.471	0.001	1.594
				1.164	0.001	2.630
				1.905	0.001	3.417
				2.679	0.001	4.084
0.198	2.333	3.437	-0.357	0.497	0.001	1.587
				0.923	0.001	2.201
				1.692	0.001	3.010
				2.584	0.001	3.737
0.194	2.333	3.224	-0.946	0.379	0.001	1.745
				0.620	0.001	1.733
				1.002	0.001	2.201
				1.550	0.001	2.727
				2.047	0.001	3.150
0.697	2.333	3.222	-1.940	1.372	0.015	9.915
				1.947	0.018	12.53
				2.472	0.019	14.44
				3.039	0.019	16.29
0.700	2.333	3.563	1.067	1.382	0.014	9.453
				1.976	0.016	11.74
				2.462	0.016	13.39
				2.983	0.017	14.93
0.697	2.333	3.544	0.132	1.086	0.016	9.420
				1.467	0.013	9.439
				1.940	0.014	11.09
				2.459	0.015	12.60
				2.972	0.015	14.07
0.701	2.333	3.331	-0.457	1.345	0.013	8.977
				1.739	0.014	10.31
				2.232	0.014	11.86
				2.497	0.014	12.57

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

b	L	Trunnion Locations x	Trunnion Locations y	D	h	Q
ft.	ft.	ft.	ft.	ft.	ft.	cfs
1.200	2.333	3.329	2.428	1.886	0.048	20.08
				2.113	0.050	21.53
				2.332	0.052	23.08
				2.666	0.054	25.26
1.198	2.333	3.670	1.555	1.863	0.045	19.30
				2.134	0.046	20.66
				2.402	0.047	22.31
				2.784	0.048	24.40
1.199	2.333	3.651	0.620	1.881	0.043	18.94
				2.192	0.043	20.46
				2.514	0.044	22.19
				2.816	0.045	23.85
1.201	2.333	3.438	0.031	1.698	0.053	20.27
				2.010	0.043	19.44
				2.234	0.043	20.61
				2.548	0.043	22.13
				2.837	0.043	23.40
1.990	2.335	3.670	1.004	0.441	0.001	1.877
				0.442	0.001	2.247
				0.949	0.001	2.695
				1.779	0.002	3.678
				2.959	0.002	4.741
0.199	2.335	3.872	0.090	0.512	0.001	1.880
				1.156	0.001	2.735
				2.046	0.001	3.614
				2.860	0.001	4.279
0.198	2.335	3.709	-0.832	0.443	0.001	1.705
				0.834	0.001	2.233
				1.289	0.001	2.726
				2.138	0.001	3.473
0.701	2.334	3.851	1.470	1.409	0.018	10.65
				1.510	0.018	11.05
				1.795	0.019	12.16
				2.417	0.019	14.41
				2.962	0.019	16.10

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Fort Patrick Henry Project

Tainter Gates Partially Opened

Gate Trunnion at Various Locations

MODEL TEST DATA

Trunnion Locations						
b ft.	L ft.	x ft.	y ft.	D ft.	h ft.	Q cfs
0.700	2.334	4.053	0.556	1.495	0.015	10.34
				2.064	0.016	12.28
				2.457	0.017	13.45
				2.838	0.017	14.59
0.697	2.334	3.890	-0.366	1.208	0.021	11.16
				1.530	0.014	10.10
				1.911	0.015	11.31
				2.208	0.015	12.06
				2.602	0.015	13.12
1.199	2.334	4.033	1.936	1.825	0.065	22.95
				2.071	0.054	22.37
				2.210	0.055	23.16
				2.404	0.055	24.20
				2.585	0.056	25.33
				2.731	0.056	26.10
1.198	2.334	4.235	1.022	1.924	0.051	21.00
				2.020	0.051	21.22
				2.225	0.050	22.02
				2.467	0.050	23.22
				2.704	0.050	24.42
1.199	2.334	4.072	0.100	2.141	0.046	21.14
				2.260	0.048	21.83
				2.577	0.046	23.06
				2.797	0.046	23.94
0.199	2.338	4.101	0.677	0.518	0.001	2.247
				1.082	0.002	3.019
				1.928	0.002	3.914
				2.748	0.002	4.626
0.200	2.338	4.233	-0.250	0.492	0.002	2.673
				0.512	0.001	2.118
				1.293	0.002	3.054
				2.007	0.002	3.692
				2.678	0.002	4.247

Width of model approach channel (W) = 2.74 ft.
Model layout is shown on page 44.

Tennessee Valley Authority

Hales Bar Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.4529	0.595	11.53	0.014	15.74	21.17	82,140	4.04
	0.666	12.52	0.015		23.67	89,190	4.00
	0.869	15.01	0.018		30.83	106,900	3.96
	0.527	10.81	0.014		18.81	77,010	4.21
	0.561	11.17	0.014		19.99	79,570	4.11
	0.526	10.84	0.014		18.77	77,220	4.23
	0.612	11.74	0.014		21.76	83,630	4.02
	0.548	11.02	0.014		19.54	78,500	4.14
	0.588	11.55	0.014		20.93	82,280	4.08
	0.565	11.18	0.014		20.13	79,640	4.09
	0.669	12.59	0.016		23.81	89,700	4.01
	0.628	11.97	0.015		22.35	85,270	4.01
	0.712	13.10	0.016		25.31	93,320	3.98
	0.751	13.59	0.016		26.66	96,810	3.97
0.3991	0.588	10.18	0.011	13.87	20.82	72,520	3.94
	0.558	9.824	0.011		19.78	69,980	3.96
	0.517	9.346	0.010		18.32	66,580	4.02
	0.486	8.994	0.010		17.24	64,070	4.08
	0.475	8.946	0.010		16.86	63,730	4.14
0.3438	0.604	9.169	0.009	11.95	21.31	65,320	3.90
	0.562	8.706	0.008		19.81	62,020	3.90
	0.518	8.191	0.008		18.28	58,350	3.90
	0.457	7.560	0.007		16.13	53,850	3.99
	0.430	7.269	0.007		15.19	51,780	4.04
	0.414	7.135	0.007		14.63	50,830	4.10
	0.422	7.235	0.007		14.91	51,540	4.09
0.2894	0.483	6.723	0.006	10.06	17.00	47,890	3.85
	0.605	7.928	0.007		21.27	56,480	3.88
	0.403	5.938	0.005		14.18	42,300	3.91
	0.493	6.809	0.006		17.35	48,500	3.84
	0.419	6.049	0.005		14.74	43,090	3.86
	0.592	7.776	0.007		20.82	55,390	3.86

Tennessee Valley Authority

Hales Bar Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.1818	0.354	3.650	0.002	6.319	12.37	26,000	3.78
	0.547	4.915	0.003		19.12	35,010	3.86
	0.462	4.393	0.002		16.13	31,290	3.83
	0.413	4.096	0.002		14.43	29,180	3.83
	0.488	4.574	0.003		17.07	32,580	3.85
	0.580	5.095	0.003		20.27	36,290	3.86
	0.559	4.972	0.003		19.54	35,420	3.85
0.2342	0.410	5.019	0.003	8.141	14.36	35,750	3.83
	0.368	4.636	0.003		12.90	33,020	3.83
	0.450	5.354	0.004		15.78	38,140	3.82
	0.590	6.461	0.004		20.65	46,030	3.86
0.1251	0.601	3.719	0.002	4.348	20.96	26,490	3.91
	0.512	3.382	0.001		17.83	24,090	3.89
	0.422	3.034	0.001		14.70	21,610	3.90
	0.348	2.693	0.001		12.13	19,180	3.89
	0.466	3.215	0.001		16.23	22,900	3.90
0.0720	0.475	2.039	0.000	2.503	16.51	14,530	4.12
	0.555	2.216	0.001		19.33	15,790	4.12
	0.596	2.330	0.001		20.75	16,600	4.17
	0.518	2.153	0.001		18.04	15,340	4.16
	0.365	1.762	0.000		12.69	12,550	4.12

Tennessee Valley Authority

Hales Bar Project

Tainter Gates Raised Above the Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D	Q	h	H	Q	C
ft.	cfs	ft.	ft.	cfs	
0.896	27.80	0.058	33.16	198,000	4.32
0.851	25.43	0.051	31.35	181,100	4.30
0.817	23.66	0.046	30.00	168,500	4.27
0.775	21.62	0.040	28.33	154,000	4.26
0.731	19.44	0.034	26.59	138,500	4.21
0.684	17.26	0.028	24.75	122,900	4.16
0.579	12.93	0.018	20.75	92,100	4.06
0.537	11.24	0.015	19.19	80,060	3.97
0.617	14.47	0.022	22.21	103,100	4.10
0.483	9.387	0.011	17.17	66,870	3.92
0.430	7.647	0.008	15.22	54,470	3.82
0.372	5.957	0.005	13.10	42,400	3.72
0.306	4.321	0.003	10.74	30,780	3.64
0.242	2.919	0.002	8.48	20,790	3.51
0.654	15.88	0.025	23.60	113,100	4.11
0.568	12.39	0.017	20.33	88,260	4.01

Tennessee Valley Authority

Hiwassee Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.0213	0.280	0.3292		1.17	15.40	7,385	4.96
	0.185	0.2692			10.18	6,039	5.03
	0.070	0.1636			3.85	3,670	5.24
	0.310	0.3456			17.05 ~~1.71~~	7,753	4.96
	0.449	0.4161			24.70	9,335	4.92
	0.385	0.3849			21.18	8,635	4.92
	0.048	0.1296			2.64	2,907	5.25
	0.051	0.1372			2.80	3,078	5.38
	0.052	0.1415			2.86	3.174	5.46
	0.051	0.1404			2.80	3,150	5.51
	0.056	0.1520			3.08	3,410	5.61
	0.063	0.1568			3.46	3,518	5.37
	0.077	0.1725			4.24	3,870	5.20
	0.084	0.1812			4.62	4,065	5.27
	0.124	0.2188			6.82	4,909	5.15
	0.229	0.3010	Negligible		12.60	6,753	5.06
	0.322	0.3555			17.71	7,975	5.01
0.0421	0.142	0.3687		2.32	7.81	8,271	4.16
	0.100	0.3133			5.50	7,029	4.39
	0.196	0.4123			10.78	9,250	3.86
	0.277	0.5273			15.24	11,830	4.08
	0.385	0.6276			21.18	14,080	4.08
	0.473	0.6983			26.02	15,670	4.08
	0.203	0.4465			11.16	10,020	4.10
0.0767	0.120	0.5475		4.22	6.60	12,280	4.13
	0.188	0.6886			10.34	15,450	3.82
	0.261	0.8201			14.36	18,400	3.72
	0.318	0.9188			17.49	20,610	3.72
	0.374	1.003			20.57	22,500	3.71
	0.440	1.094			24.20	24,540	3.69
0.0762	0.172	0.6546		4.19	9.46	14,690	3.88
	0.203	0.7079			11.16	15,880	3.78

Tennessee Valley Authority

Hiwassee Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.1302	0.229	1.222		7.16	12.60	27,410	3.85
	0.277	1.344			15.24	30,150	3.71
	0.389	1.612			21.40	36,160	3.59
	0.447	1.751			24.59	39,280	3.59
	0.483	1.833			26.57	41,120	3.59
	0.425	1.703			23.38	38,210	3.60
	0.346	1.512			19.03	33,920	3.62
0.1293	0.300	1.382		7.11	16.50	31,000	3.65
	0.347	1.505			19.08	33,760	3.62
	0.477	1.817			26.24	40,760	3.62
	0.237	1.229			13.04	27,570	3.80
	0.248	1.255			13.64	28,150	3.76
0.187	0.402	2.282	Negligible	10.28	22.11	51,190	3.63
	0.350	2.130			19.25	47,780	3.72
	0.320	2.057			17.60	46,150	3.83
	0.452	2.438			24.86	54,690	3.59
	0.491	2.563			27.00	57,500	3.59
0.186	0.317	2.041		10.23	17.44	45,790	3.84
	0.320	2.037			17.60	45,700	3.81
0.238	0.445	3.051		13.09	24.48	68,450	3.72
	0.491	3.213			27.00	72,080	3.66
	0.381	2.908			20.96	65,240	3.96
	0.388	2.909			21.34	65,260	4.04
0.294	0.501	4.033		16.17	27.56	90,480	3.82
	0.422	3.993			23.21	89,580	4.32
	0.422	3.989			23.21	89,490	4.31
	0.460	3.989			25.30	89,490	4.03
	0.465	3.989			25.58	89,490	4.00

Tennessee Valley Authority

Hiwassee Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D	Q	h	H	Q	C
ft.	cfs	ft.	ft.	cfs	
0.199	1.224		10.94	27,460	3.40
0.238	1.616		13.09	36,250	3.44
0.303	2.348		16.66	52,680	3.48
0.353	3.002		19.42	67,350	3.54
0.463	4.673		25.46	104,800	3.66
0.083	0.3053		4.56	6,849	3.15
0.081	0.2932		4.46	6,578	3.13
0.150	0.7790		8.25	17,480	3.31
0.113	0.4982		6.22	11,180	3.24
0.147	0.7553		8.08	16,940	3.31
0.157	0.8340		8.64	18,710	3.31
0.217	1.404	Negligible	11.94	31,500	3.43
0.252	1.769		13.86	39,690	3.45
0.283	2.116		15.56	47,470	3.47
0.293	2.244		16.12	50,340	3.49
0.319	2.548		17.54	57,160	3.49
0.371	3.254		20.40	73,000	3.56
0.289	2.200		15.90	49,350	3.50
0.498	5.274		27.39	118,300	3.71
0.314	2.498		17.27	56,040	3.50
0.426	4.059		23.43	91,060	3.60
0.054	0.1572		2.97	3,527	3.11
0.120	0.5475		6.60	12,280	3.25
0.347	2.893		19.08	64,900	3.49
0.347	2.911		19.08	65,310	3.52
0.422	3.993		23.21	89,580	3.60
0.280	2.082		15.40	46,710	3.47
0.048	0.1296		2.64	2,907	3.05
0.081	0.2886		4.46	6,474	3.08

Tennessee Valley Authority

Watts Bar Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.052	0.168	0.803	0.000	1.82	5.88	5,819	3.99
	0.301	1.119	0.000		10.54	8,110	3.99
	0.463	1.411	0.000		16.20	10,230	3.99
	0.650	1.695	0.000		22.75	12,280	4.01
	0.831	1.932	0.000		29.08	14,000	4.03
	1.068	2,198	0.000		37.38	15,930	4.02
~~0.078~~	0.100	0.719	0.000	~~2.73~~	3.50	5,211	3.31+ ~~3.70~~* 4.96
0.078	1.023	3.024	0.000	2.73	35.80	21,920	3.79
	0.608	2.278	0.000		21.28	16,510	3.76
	0.856	2.746	0.000		29.96	19,900	3.78
	0.451	1.932	0.000		15.78	14,000	3.75
	0.165	1.072	0.000		5.78	7,769	3.78
	0.299 0.127	1.523 1.025	0.000 0.000		10.46 4.44	11,040 7,428	3.72 3.30+ 4.34*
0.111	0.346	2.196	0.000	3.88	12.11	15,910	3.57
	0.576	2.962	0.000		20.16	21,470	3.59
	0.842	3.703	0.001		29.50	26,840	3.65
	1.074	4.161	0.001		37.62	30,160	3.61
	1.056	4.140	0.001		37.00	30,000	3.62
	~~0.183~~ 1.044	~~1.803~~ 4.149	0.0001		36.~~46~~ 58	~~13,070~~ 30,070	~~3.35+~~ 3.65
~~0.166~~	~~1.044~~	~~4.149~~	~~0.001~~	~~5.81~~	~~36.58~~	~~30,070~~	~~3.65~~
0.166	0.271	2.679	0.001	5.81	9.52	19,420	3.63
	1.068	6.182	0.001		37.42	44,800	3.64
	0.837	5.417	0.001		29.33	39,260	3.65
	0.616	4.552	0.001		21.60	32,990	3.65
	0.441	3.688	0.001		15.47	26,730	3.61
0.223	0.280	3.538	0.001	7.80	9.84	25,640	3.46+ 3.82*
	0.356	4.102	0.001		12.50	29,730	3.64
	0.540	5.436	0.002		18.97	39,400	3.62
	0.702	6.396	0.002		24.64	46,350	3.62
	0.858	7.189	0.002		30.10	52,100	3.62
	1.064	8.186	0.002		37.31	59,330	3.65

+Gate lip touching nappe C from Equation B.
*Gate lip touching nappe C from Equation A.

Tennessee Valley Authority

Watts Bar Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.338	1.061	11.98	0.005	11.83	37.28	86,820	3.64
	0.854	10.49	0.005		30.06	76,020	3.64
	0.663	8.894	0.004		23.34	64,460	3.64
	0.484	7.141	0.003		17.04	51,750	3.68
	0.420	6.781	0.003		14.8	49,140	3.59+ 3.95*
	0.476	7.102	0.003		16.76	51,470	3.70
	1.050	11.94	0.005		36.92	86,530	3.65
0.453	0.616	10.82	0.006	15.86	21.77	78,410	3.74
	0.565	10.85	0.007		20.02	78,630	3.65+ 4.04*
	0.679	11.48	0.007		24.01	83,200	3.67
	0.840	13.33	0.008		29.68	96,600	3.65
	1.047	15.50	0.009		36.96	112,300	3.66
0.567	0.688	15.07	0.012	19.84	24.50	109,200	3.75+ 4.09*
	0.765	15.39	0.011		27.16	111,500	3.81
	0.854	16.46	0.012		30.31	119,300	3.73
	0.957	17.72	0.013		33.95	128,400	3.69
	1.035	18.60	0.013		36.68	134,800	3.67
0.681	0.833	20.71	0.019	23.83	29.82	150,100	3.84+ 4.21*
	0.937	20.81	0.018		33.42	150,800	3.84
	1.007	21.82	0.018		35.88	158,100	3.80
	1.048	22.36	0.019		37.34	162,000	3.78
	0.928	20.69	0.018		33.11	149,900	3.85

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

Tennessee Valley Authority

Watts Bar Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D	Q	h	H	Q	C
ft.	cfs	ft.	ft.	cfs	
0.100	0.717	0.000	3.50	5,211	3.31
0.183	1.803	0.000	6.40	13,070	3.35
0.280	3.538	0.001	9.84	25,640	3.46
0.420	6.781	0.003	14.80	49,140	3.59
0.565	10.85	0.007	20.02	78,630	3.65
0.688	15.07	0.012	24.50	109,200	3.75
0.833	20.71	0.019	29.82	150,100	3.84
0.920	24.51	0.025	33.08	177,600	3.89
0.561	10.73	0.007	19.88	77,760	3.65
0.703	15.63	0.012	25.02	113,300	3.77
0.127	10.24	0.000	4.44	7,421	3.30
0.900	23.64	0.024	32.34	171,300	3.88
0.699	15.34	0.012	24.88	111,200	3.73
0.498	8.833	0.005	17.61	64,010	3.61
0.080	0.527	0.000	2.82	3,819	3.40

Tennessee Valley Authority

Wheeler Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G. O. ft.	H ft.	Q cfs	C
0.0286	0.096	0.3164	0.000	0.98	3.30	2,188	3.71
	0.131	0.3794	0.000		4.50	2,624	3.72
	0.240	0.5280	0.000		8.24	3,651	3.71
	0.279	0.5704	0.000		9.58	3,945	3.70
	0.417	0.6987	0.000		14.32	4,832	3.68
	0.344	0.6346	0.000		11.82	4,389	3.70
	0.184	0.4629	0.000		6.32	3,201	3.74
	0.508	0.7730	0.000		17.45	5,346	3.66
0.0575	0.160	0.7723	0.000	1.98	5.50	5,341	3.54
	0.197	0.8797	0.000		6.77	6,083	3.56
	0.114	0.6192	0.000		3.92	4,282	3.53
	0.251	1.015	0.000		8.62	7,019	3.57
	0.294	1.112	0.000		10.10	7,690	3.59
	0.355	1.235	0.000		12.19	8,541	3.59
	0.412	1.338	0.000		14.15	9,253	3.58
	0.497	1.480	0.000		17.07	10,230	3.59
0.0875	0.116	0.8990	0.000	3.00	3.98	6,220	3.26+ 3.71*
	0.151	1.061	0.000		5.19	7,340	3.56
	0.195	1.273	0.000		6.70	8,803	3.58
	0.229	1.416	0.000		7.87	9,792	3.59
	0.269	1.568	0.000		9.24	10,840	3.61
	0.310	1.706	0.000		10.65	11,800	3.61
	0.379	1.922	0.000		13.02	13,290	3.63
	0.447	2.116	0.000		15.35	14,630	3.64
	0.478	2.196	0.000		16.42	15,190	3.64
	0.504	2.261	0.000		17.31	15,640	3.64
0.1166	0.151	1.385	0.000	4.00	5.19	9,578	3.38+ 3.79*
	0.186	1.560	0.000		6.39	10,790	3.61
	0.228	1.796	0.000		7.83	12,420	3.59
	0.283	2.080	0.000		9.72	14,380	3.60
	0.334	2.320	0.001		11.51	16,040	3.62
	0.396	2.576	0.001		13.64	17,810	3.63
	0.454	2.793	0.001		15.63	19,310	3.64
	0.512	2.997	0.001		17.62	20,730	3.64
	0.511	2.990	0.001		17.59	20,680	3.64

*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

Tennessee Valley Authority

Wheeler Project

Tainter Gates Partially Opened

MODEL TEST DATA				EQUIVALENT PROTOTYPE			
G.O. ft.	D ft.	Q cfs	h ft.	G.O. ft.	H ft.	Q cfs	C
0.2037	0.258	3.299	0.001	7.00	8.90	22,810	3.58+ 3.98*
	0.276	3.358	0.001		9.51	23,220	3.82
	0.288	3.467	0.001		9.93	23,980	3.80
	0.322	3.684	0.001		11.10	25,480	3.70
	0.365	4.007	0.002		12.61	27,710	3.67
	0.418	4.430	0.002		14.43	30,640	3.70
	0.456	4.677	0.002		15.73	32,340	3.68
	0.497	4.945	0.002		17.14	34,200	3.69
	0.421	4.434	0.002		14.53	30,660	3.68
0.2912	0.365	5.866	0.003	10.00	12.64	40,570	3.76+ 4.16*
	0.404	5.977	0.003		13.98	41,330	3.88
	0.418	6.081	0.003		14.46	42,050	3.85
	0.436	6.243	0.003		15.08	43,170	3.82
	0.461	6.502	0.004		15.97	44,960	3.81
	0.500	6.841	0.004		17.31	47,310	3.77

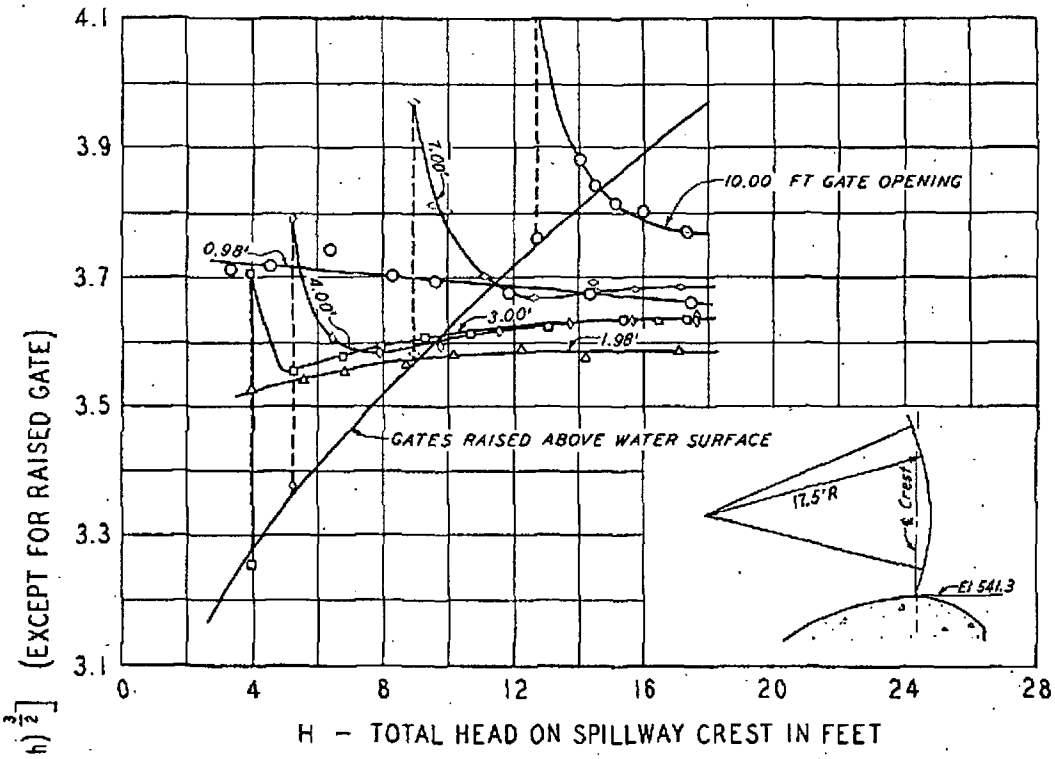
*Gate lip touching nappe C from Equation A.
+Gate lip touching nappe C from Equation B.

Tennessee Valley Authority

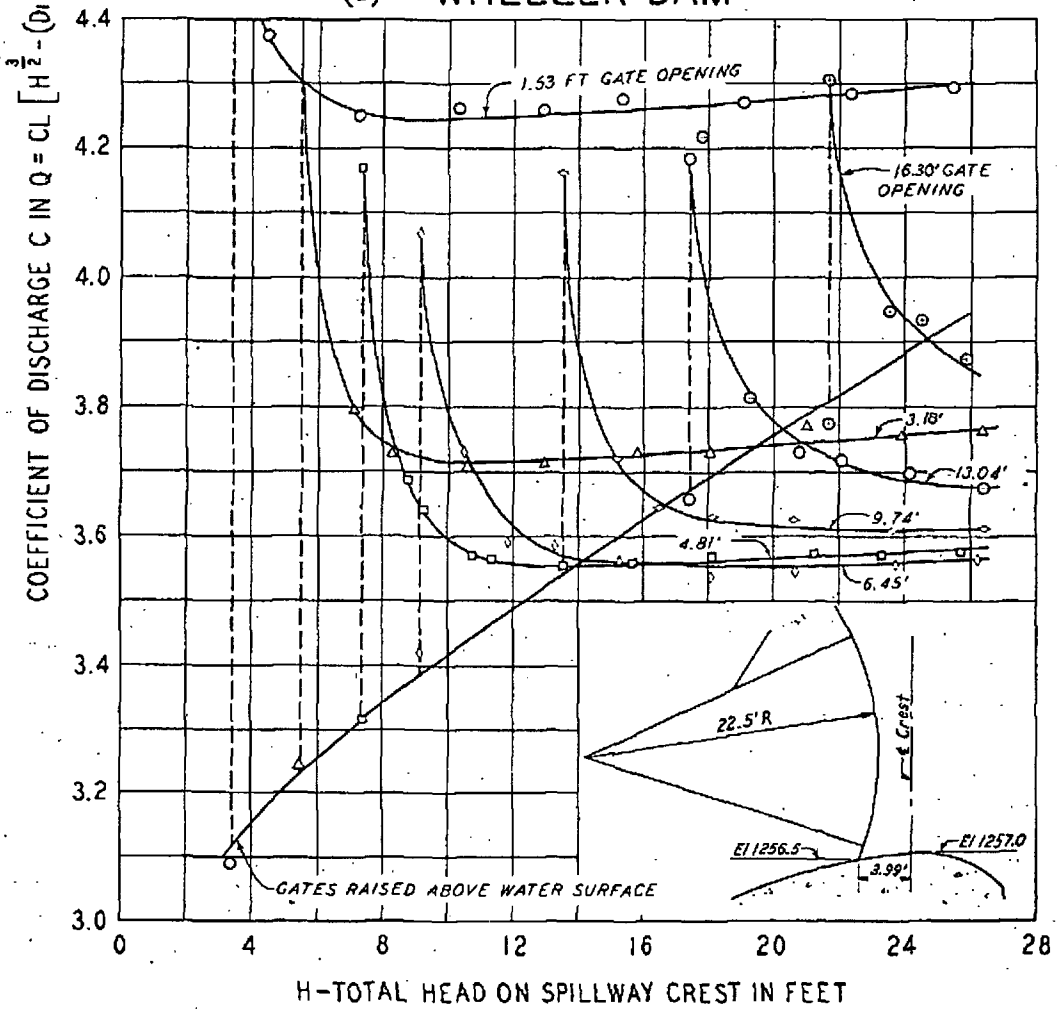
Wheeler Project

Tainter Gates Raised Above Water Surface

MODEL TEST DATA			EQUIVALENT PROTOTYPE		
D ft.	Q cfs	h ft.	H ft.	Q cfs	C
0.178	1.786	0.000	6.11	12,350	3.41
0.214	2.444	0.001	7.39	16,900	3.51
0.281	3.788	0.002	9.72	26,200	3.60
0.307	4.386	0.002	10.58	30,330	3.67
0.347	5,348	0.003	12.02	36,980	3.70
0.390	6.559	0.004	13.53	45,360	3.80
0.440	8,038	0.006	15.32	55,590	3.86
0.405	6.998	0.004	14.05	48,400	3.83
0.366	5.892	0.003	12.68	40,750	3.76
0.191	1.996	0.000	6.56	13,800	3.42
0.218	2.490	0.001	7.52	17,220	3.48
0.279	3.742	0.002	9.65	25,880	3.60
0.306	4.366	0.002	10.58	30,190	3.66
0.416	7.316	0.005	14.46	50,590	3.83
0.465	8.775	0.006	16.18	60,680	3.89
0.499	9.914	0.009	17.45	68,560	3.92
0.305	4.314	0.002	10.55	29,830	3.63
0.076	0.464	0.000	2.61	3,209	3.16
0.123	1.004	0.000	4.23	6,943	3.34
0.155	1.444	0.000	5.32	9,986	3.39
0.116	0.8990	0.000	3.98	6,220	3.26
0.151	1.385	0.000	5.19	9,578	3.38
0.258	3.299	0.001	8.90	22,810	3.58
0.365	5.866	0.003	12.64	40,570	3.76



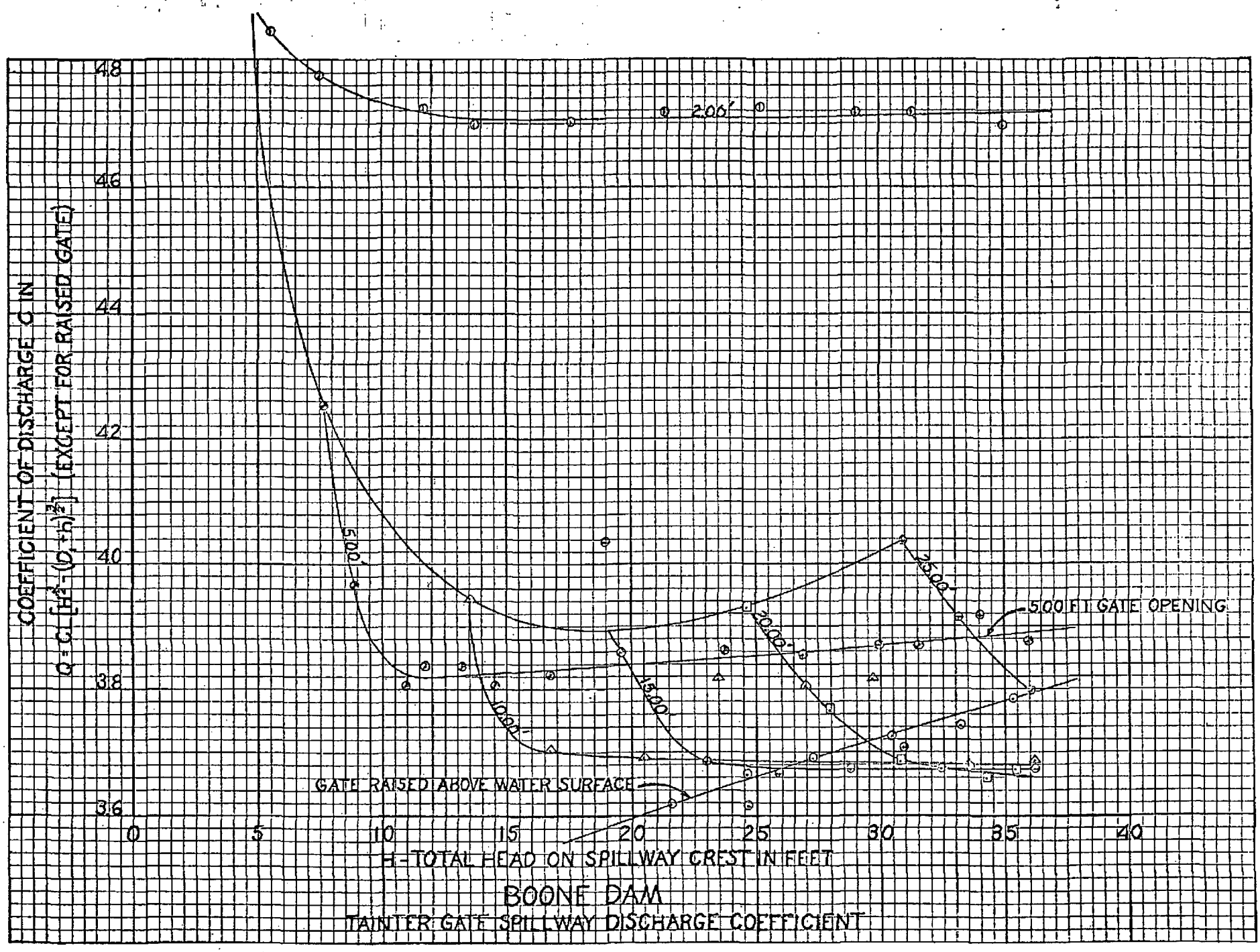
(a) WHEELER DAM



(b) APALACHIA DAM

TAINTER GATE SPILLWAY DISCHARGE COEFFICIENTS

K+E 10 X 10 TO THE INCH 359-5
KEUFFEL & ESSER CO. MADE IN U.S.A.



BOONE DAM
TAINTER GATE SPILLWAY DISCHARGE COEFFICIENT

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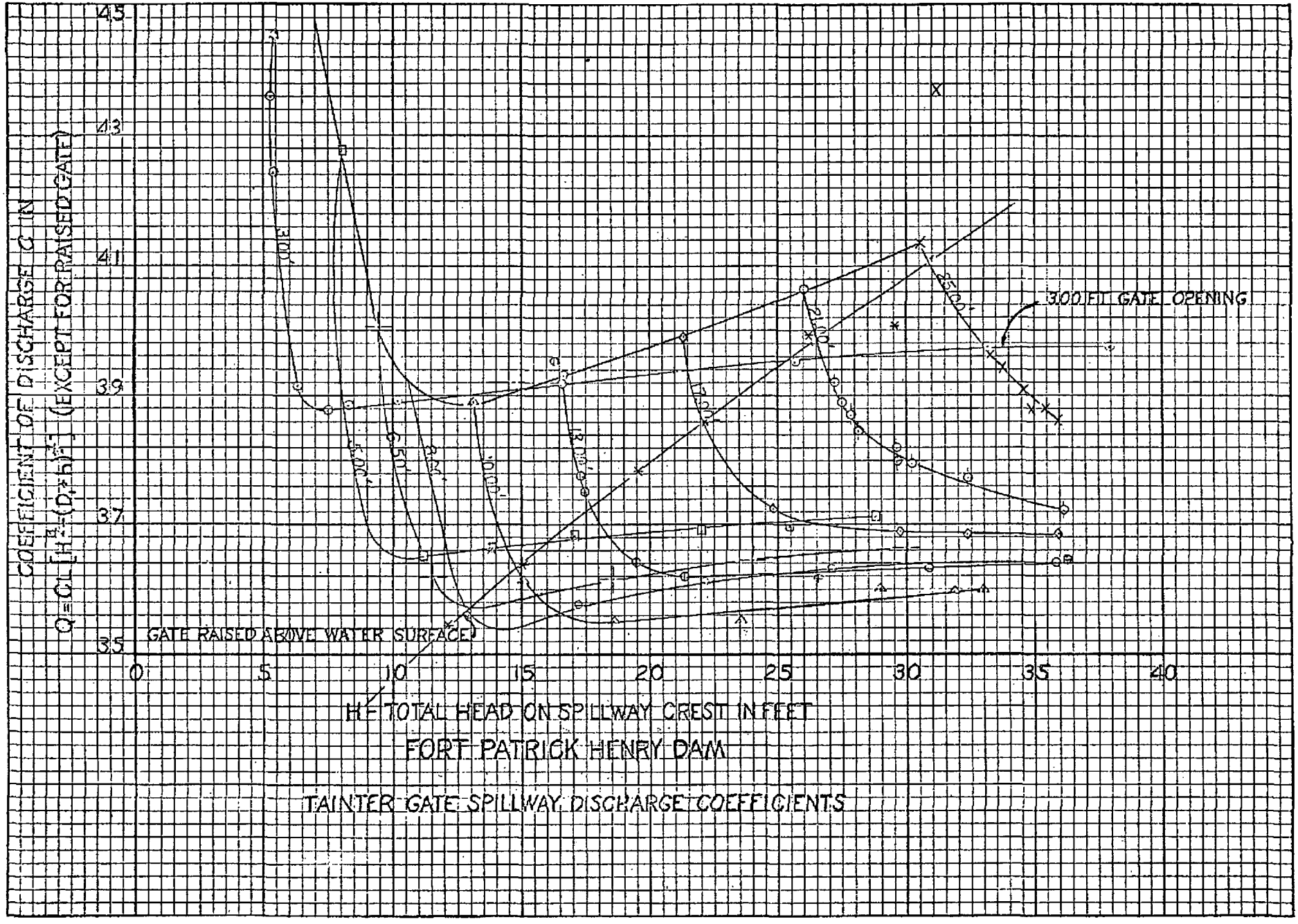
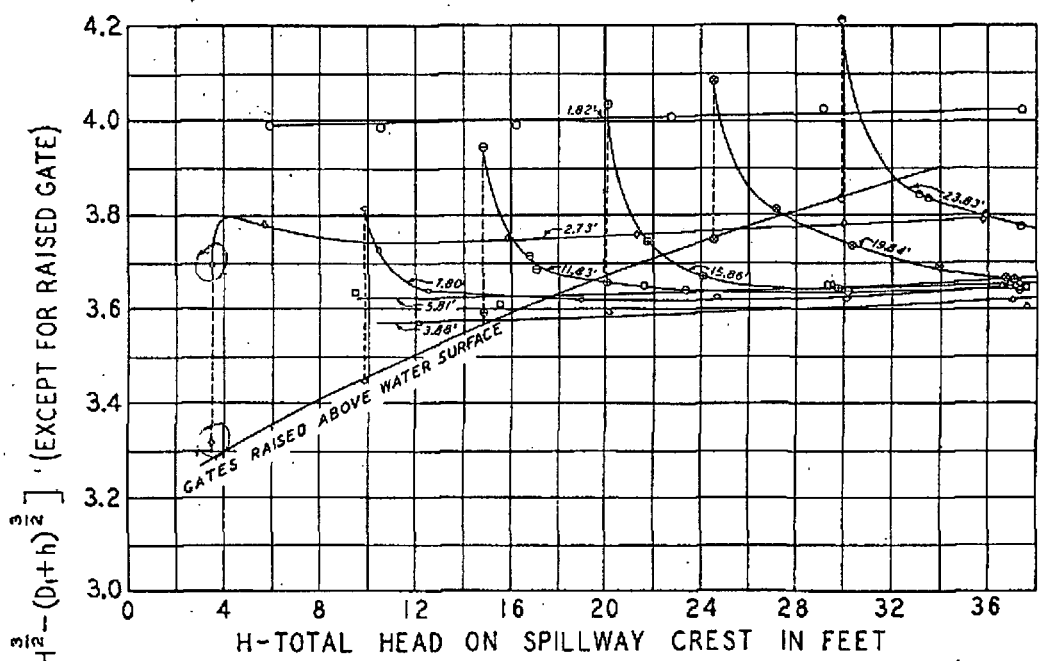
KEUFFEL & ESSER CO. MADE IN U.S.A.

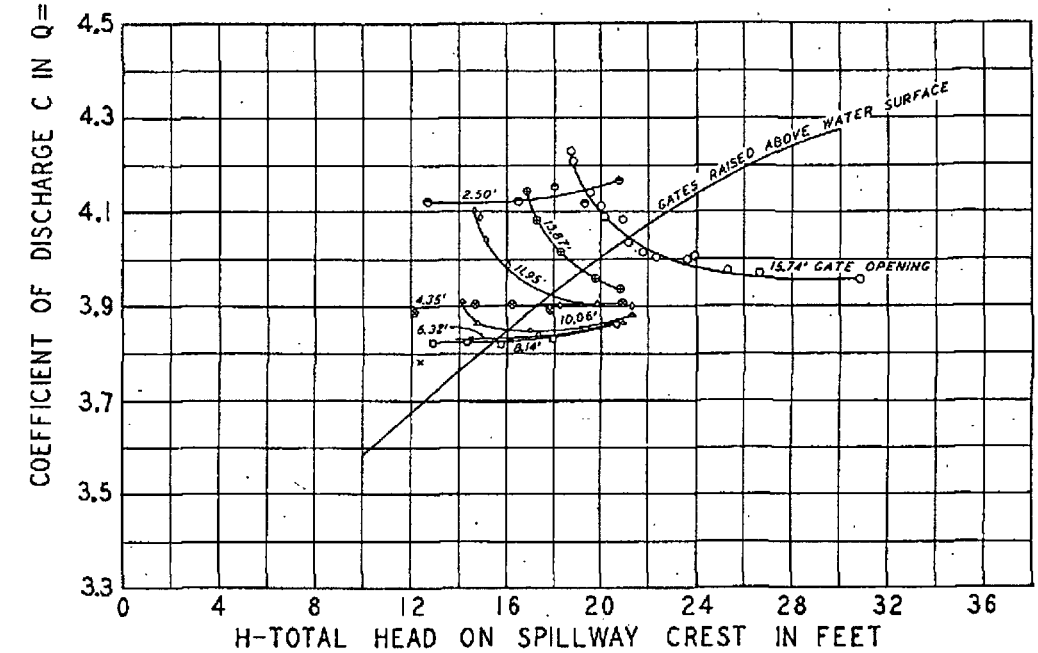


FORT PATRICK HENRY DAM

TAINTER GATE SPILLWAY DISCHARGE COEFFICIENTS

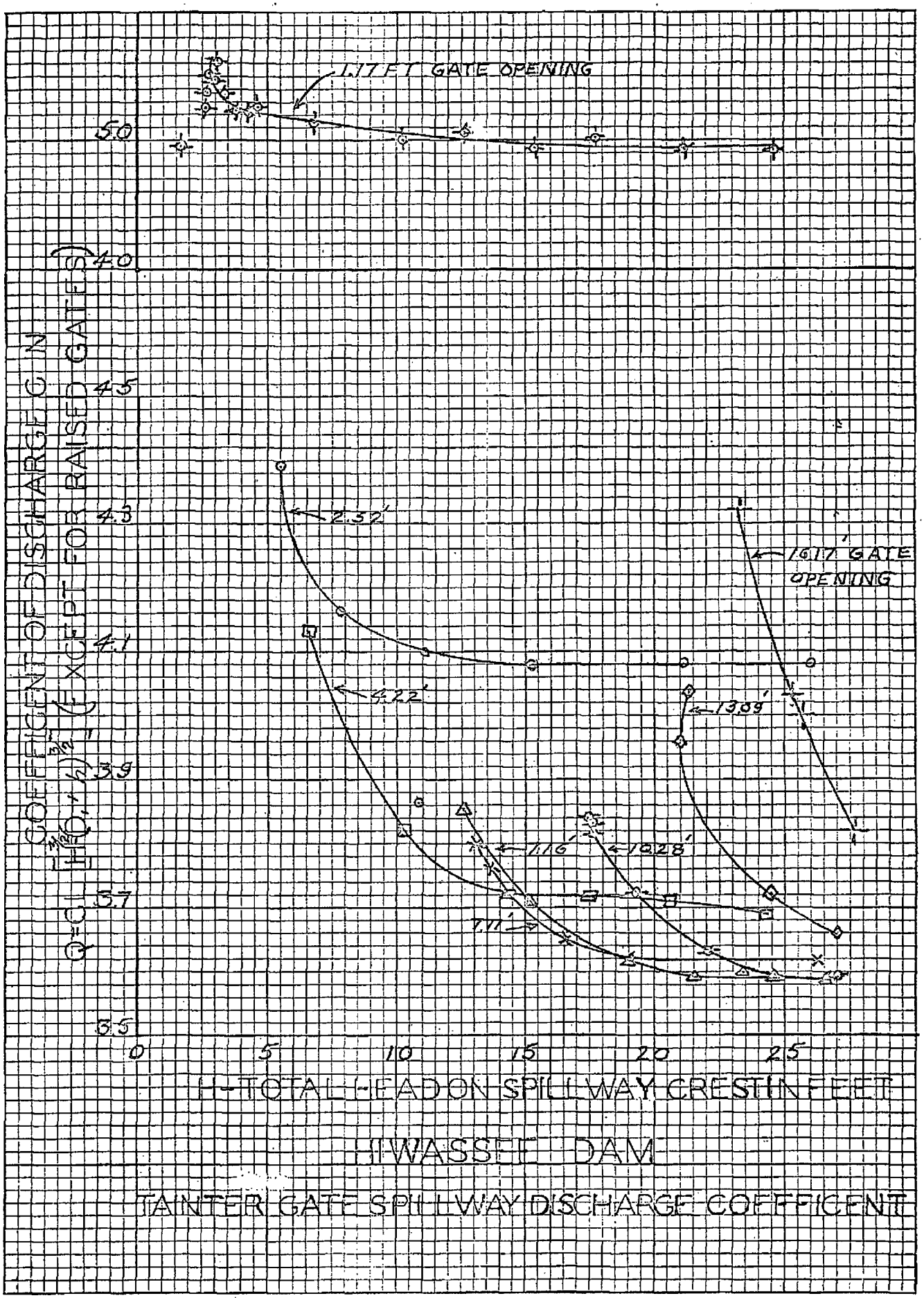


(a) WATTS BAR DAM



(b) HALES BAR DAM

TAINTER GATE SPILLWAY DISCHARGE COEFFICIENTS



HIWASSEE DAM

TAINTER GATE SPILLWAY DISCHARGE COEFFICENT

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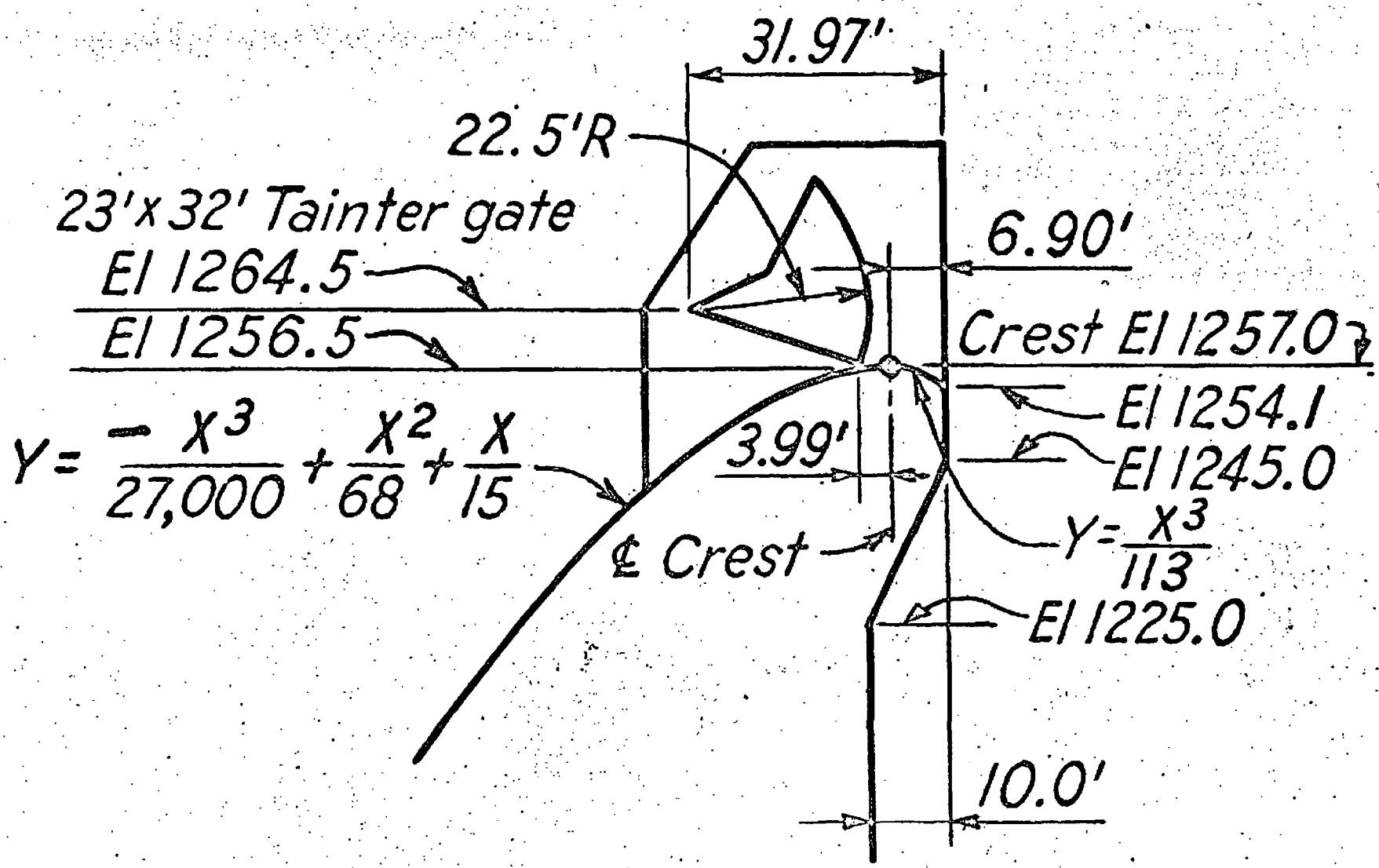
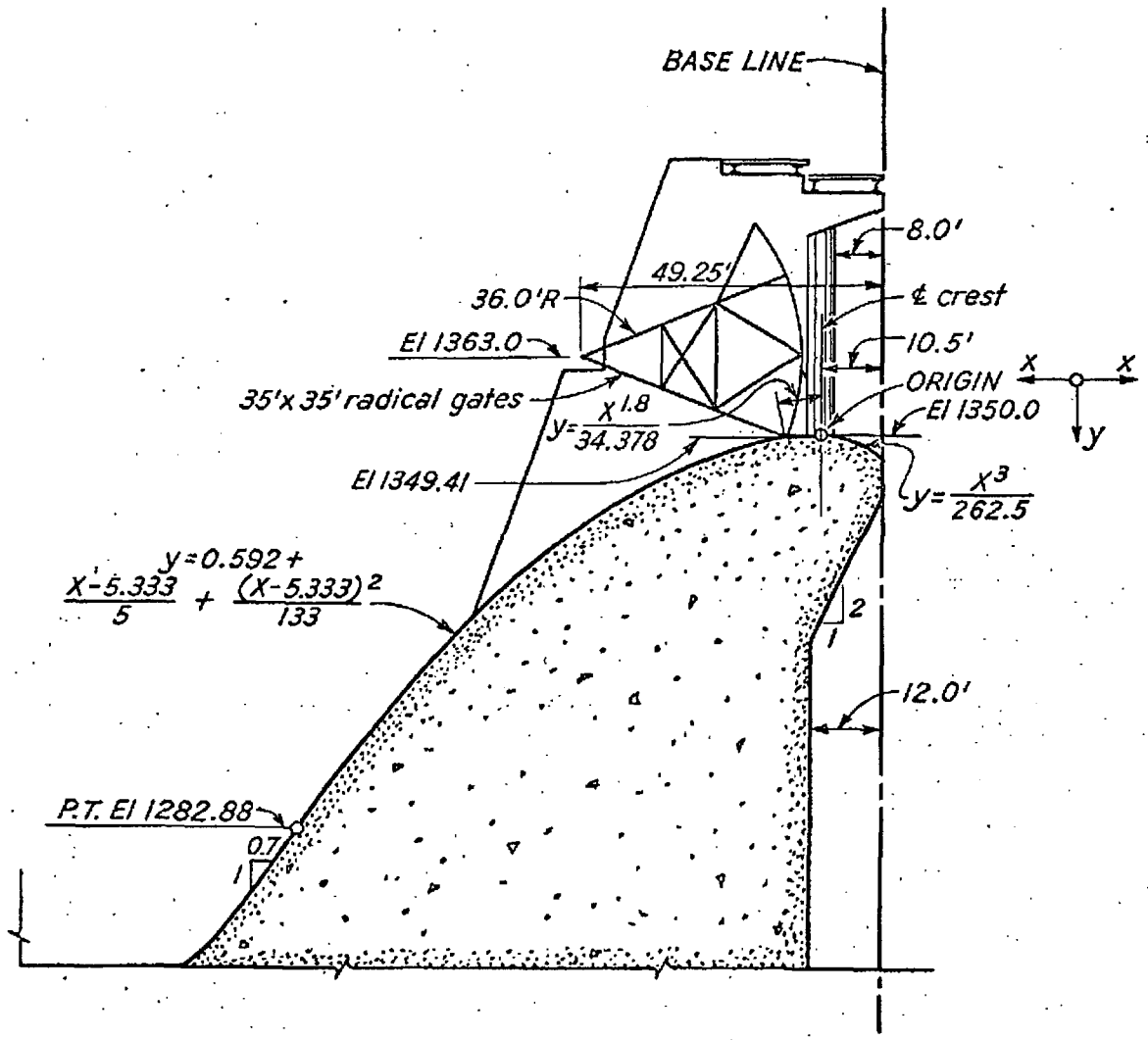
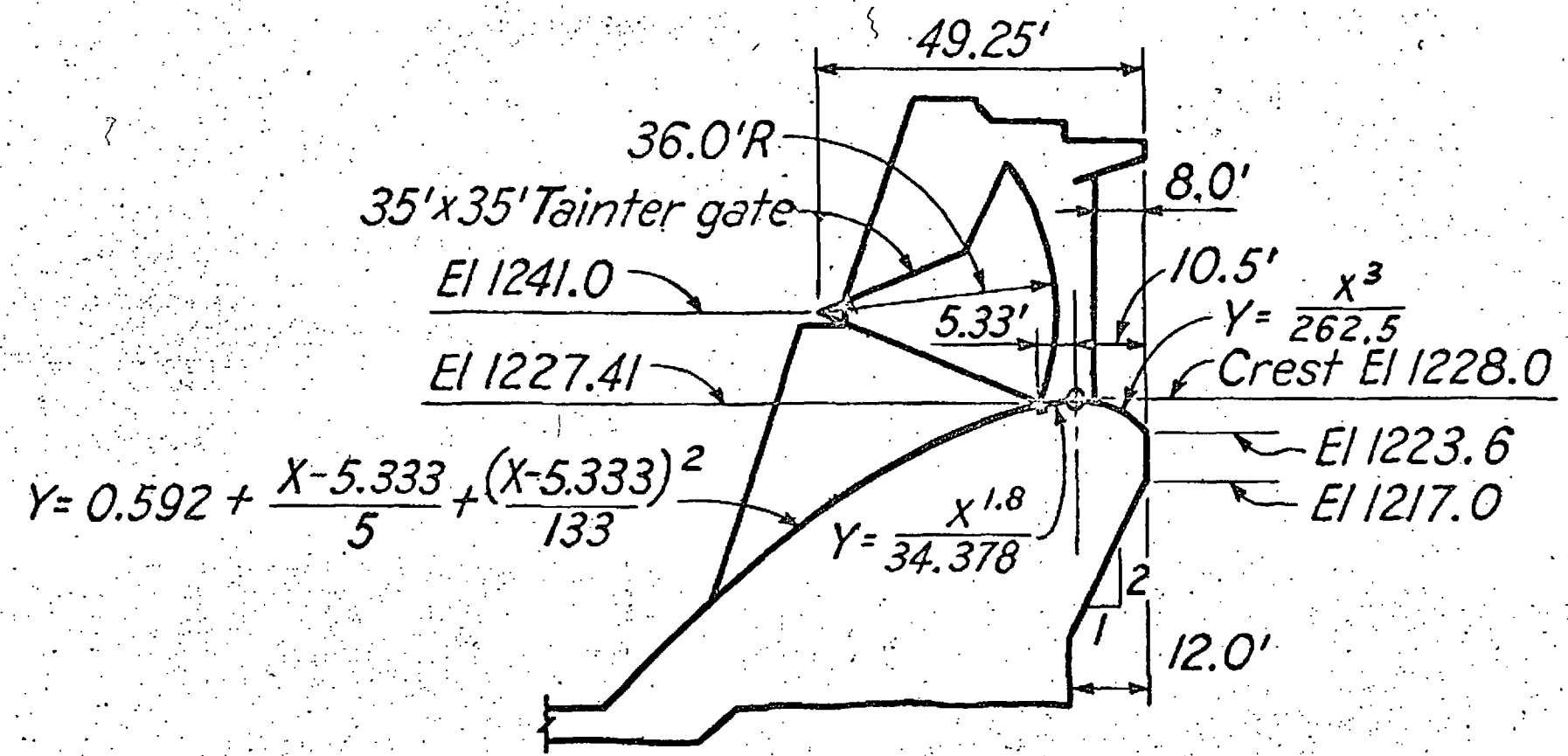


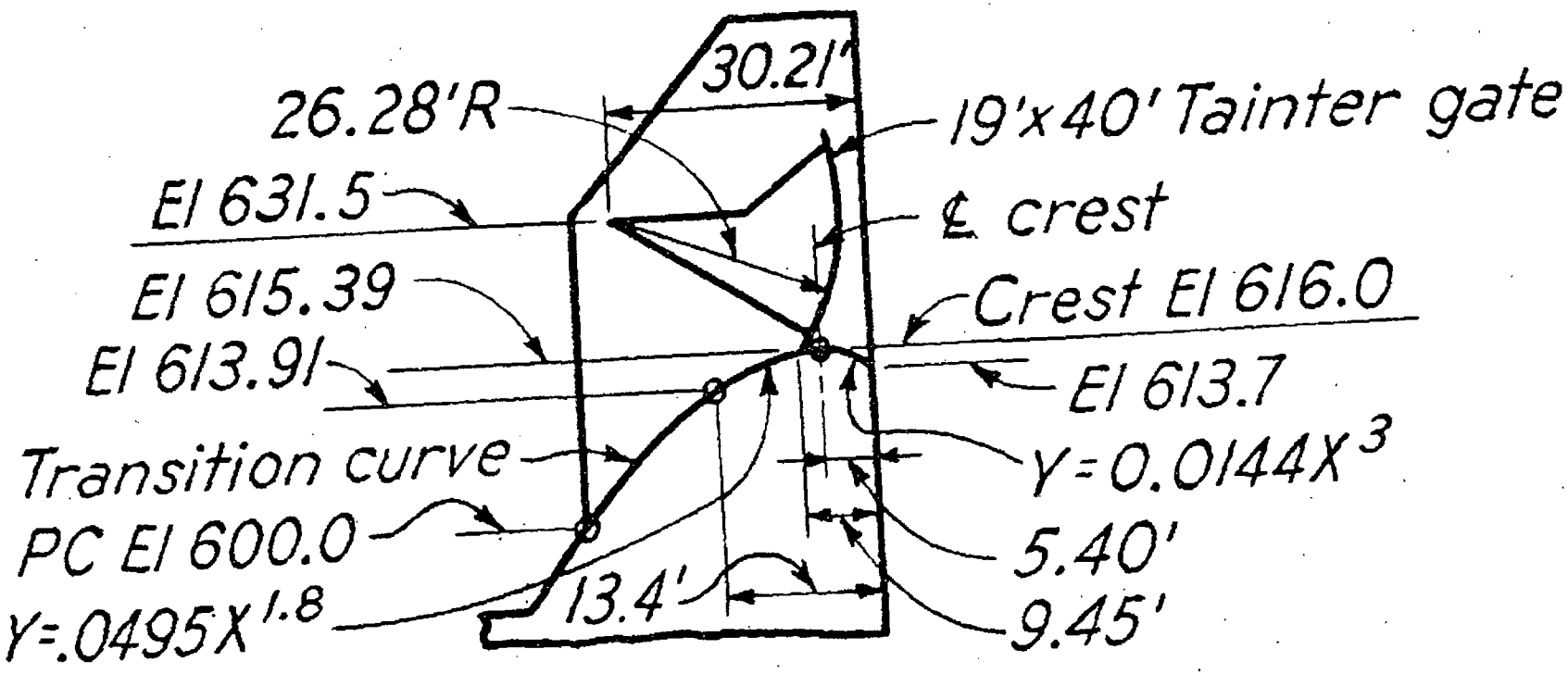
APALACHIA PROJECT



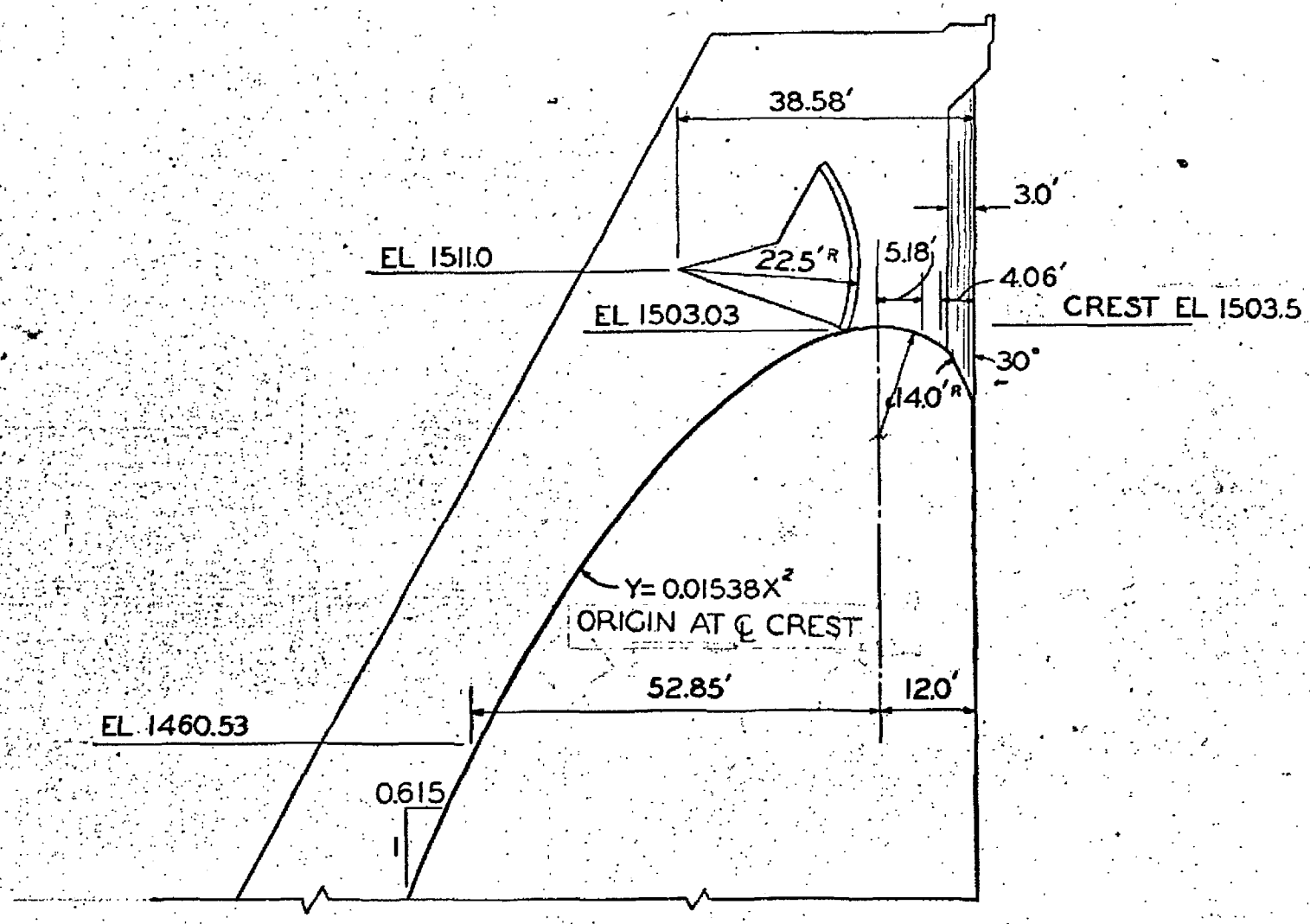
BOONE PROJECT



FORT PATRICK HENRY PROJECT



HALES BAR PROJECT



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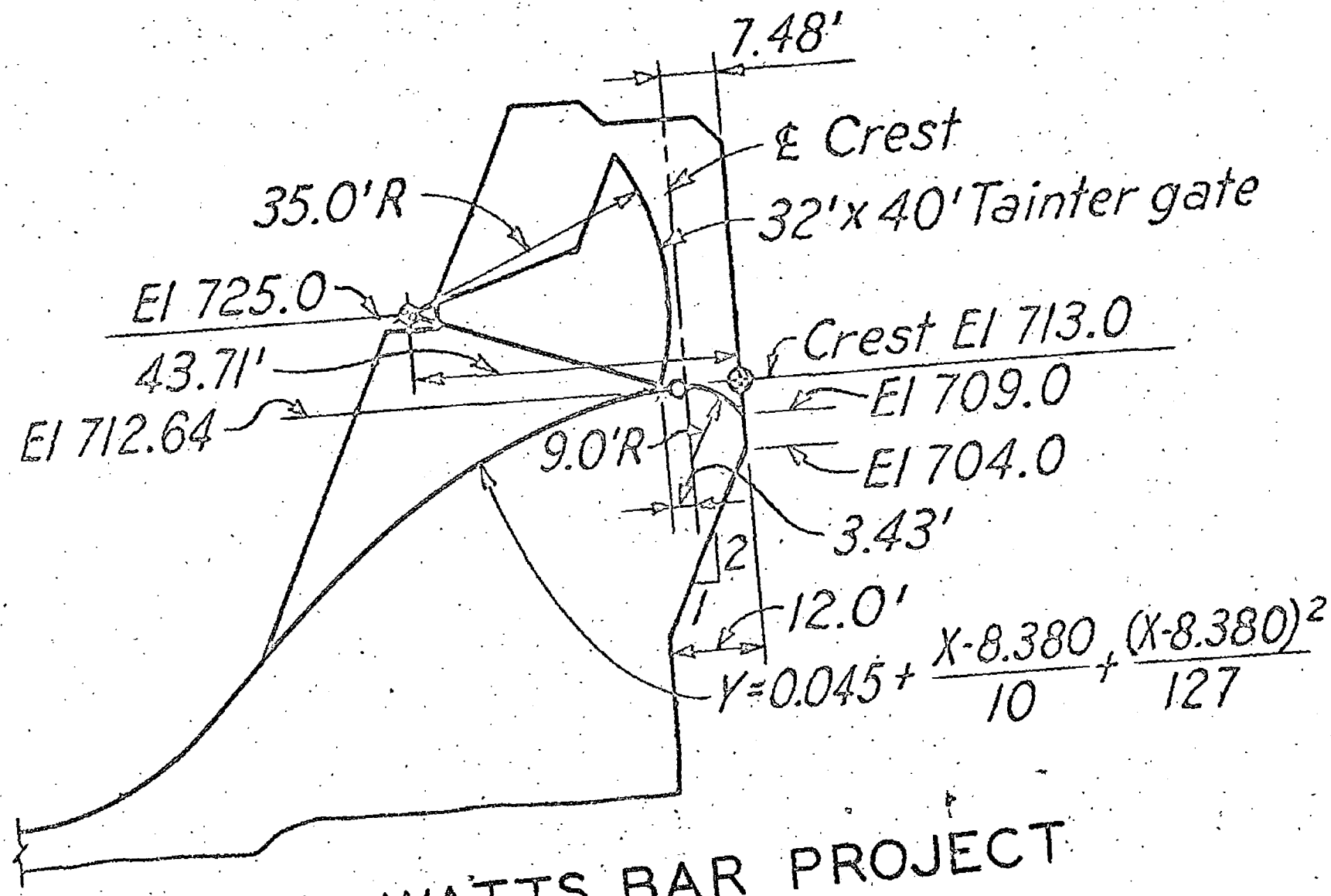
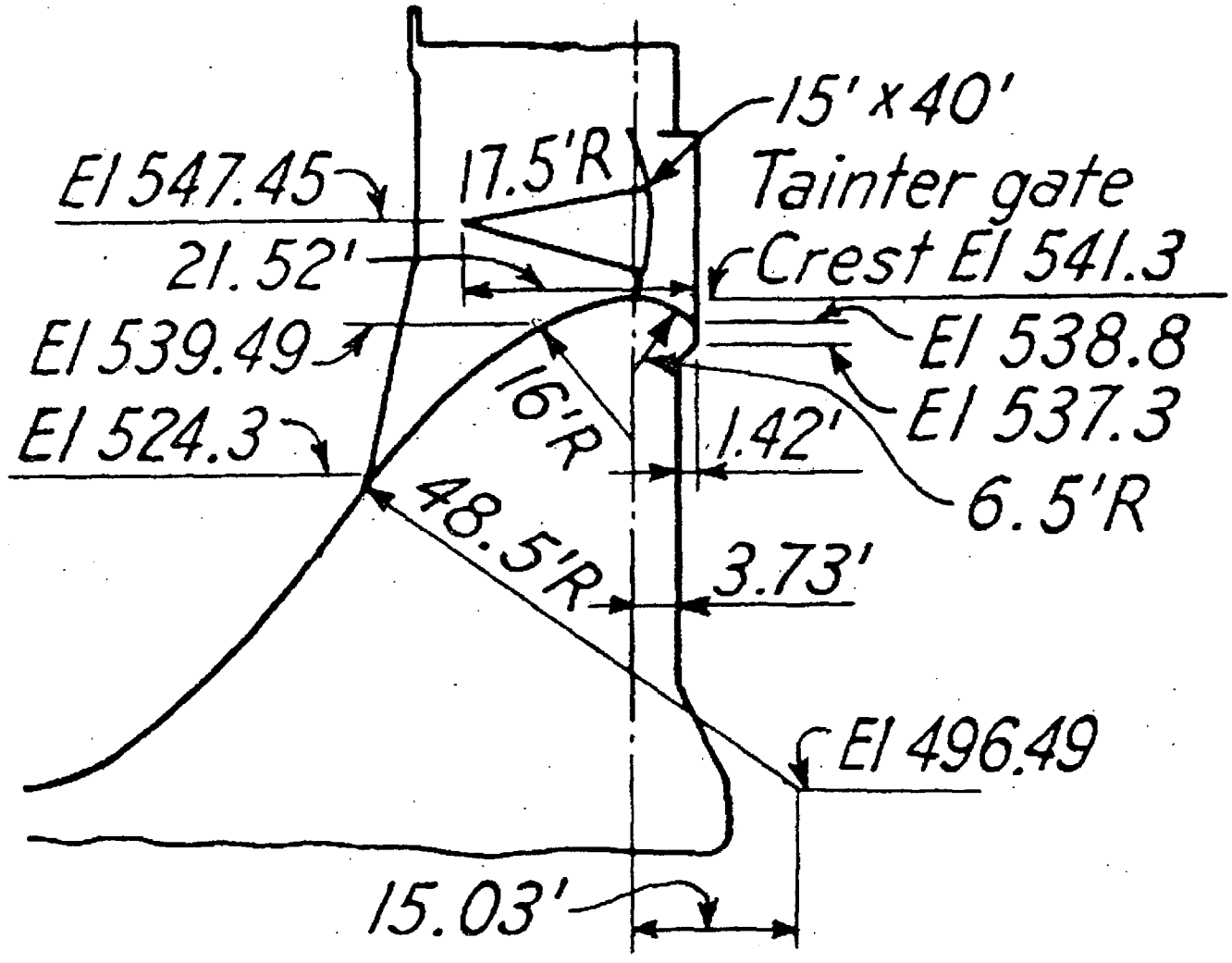
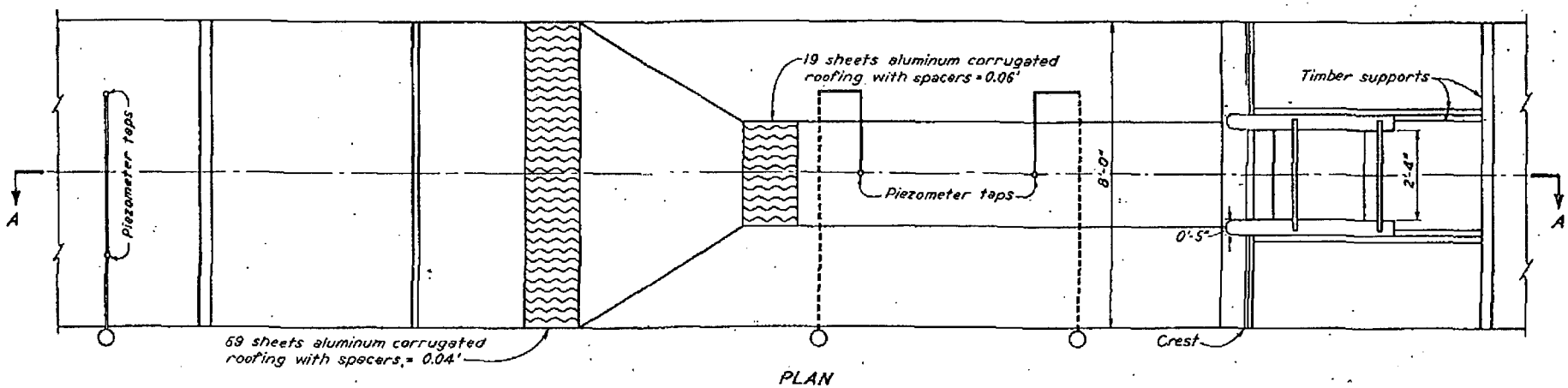


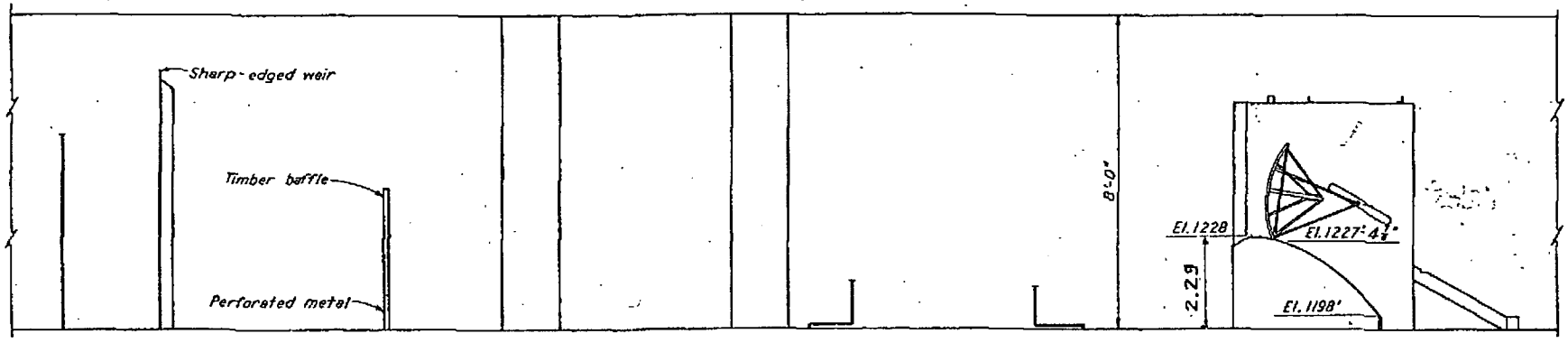
WATTS BAR PROJECT



WHEELER PROJECT



PLAN



SECTION A-A

Scales

1 Model 0 1 2 3 4 5 6 7 8 9 10 Feet

Prototype 0 20 40 60 80 100 Feet

NOTE:

Elevations refer to the prototype.
Dimensions refer to the model.

TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
HYDRAULIC DATA BRANCH

FORT PATRICK HENRY PROJECT
HYDRAULIC MODEL STUDIES

1:15 SCALE MODEL LAYOUT

44

Tennessee Valley Authority
Division of Water Control Planning
Engineering Laboratory

NORRIS DAM

DISCHARGE RATINGS

FOR ASSUMED DAM FAILURES

DURING AN EARTHQUAKE

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Advance Report No. 1

--o--

Norris, Tennessee
January 1974

Report No. 2-633

NORRIS DAM
DISCHARGE RATINGS
FOR ASSUMED DAM FAILURES
DURING AN EARTHQUAKE

INTRODUCTION

At the request of the Flood Control Branch, Division of Water Control Planning, a study was conducted by the Engineering Laboratory to establish discharge rating curves for various debris configurations resulting from a failure of Norris Dam. This study was authorized by the Project Management Corporation, Clinch River Breeder Reactor. The study was made to supply flow data to be used in the determinations of the necessary flood protection works for the Clinch River Breeder Reactor. Six failure cases detailed on Plate 1 were tested. The discharge ratings for the six cases are shown on Plates 2 and 3.

THE MODEL

A 1:150 scale model of Norris Dam duplicating the failure section and the topography immediately upstream from the dam and a 2400-foot reach downstream from the dam was installed in the eight-foot laboratory flume. A general view of the model with failure Case A installed is shown in Figure 1. The topography both upstream and downstream from the dam was obtained from drawing 232-D-264 shown on Plate 4. Model discharges were obtained from readings of a carefully calibrated diaphragm orifice located in the water supply line or a calibrated eight-foot sharp crested weir located at the upstream end of the eight-foot flume. The eight-foot weir was used whenever the discharge exceeded 2,000,000 cfs. Headwater heights were measured at two piezometers located 1200 and 1800 feet upstream from the dam. The headwater levels were determined by means of hook gages reading to .001 foot. Tailwater heights were taken from a staff gage located 1300 feet downstream from the dam. The tailwater level was controlled at the end of the flume by means of slot gates.

TEST PROCEDURE

During each discharge rating test a constant discharge was set up using the appropriate tailwater level shown on Plate 5. Recordings were then made of the headwater elevation, tailwater elevation and the discharge. The test procedure was repeated at other constant flows so that sufficient information was obtained to establish a discharge rating curve of headwater elevation vs. discharge for each case tested.

TEST CASES

Six failure schemes designated as cases A, B, C, D, E and F_{1-5} were rated. Details of the schemes are shown on Plate 1. The existing topography both upstream and downstream from the dam was duplicated in the model from contours given on Plate 4. The debris configuration was assumed to be as shown on Plate 1 for each case.

Case E was identical to case A except that the sideflow to the left and right of the debris was prevented by constructing sheet metal walls as shown on Plate 1. The difference between the discharge of case A and E at any headwater elevation will give the discharge not going over the top of the debris.

Four tests labeled No TW Effect on Plate 2 were conducted with the tailwater level lowered so that it would have no influence on the headwater level. At near maximum test Q the headwater level was reduced 5.4, 5.3 and 7.6 feet for cases A, B and D, respectively, by eliminating the tailwater effect.

For case F_{1-5} the remains of the dam, assumed broken off at elevation 970, was moved to five different positions as shown on Plate 1. A discharge rating was obtained for each location so that data would be available to estimate discharge coefficients which might be applicable to failures at other dams.

TEST RESULTS

The discharge rating curves for each case are shown on Plates 2 and 3. Tabulations of the rating data are given on Tables 1 to 10. A summary of the discharges at headwater elevations 970 and 1035 is given on Table 11 to show the spread in discharge between the various cases tested.

Photographs of the dry and operating model are shown on Figures 1 to 22 for each scheme. Additional photographs and color slides of the model operation are available at the TVA Engineering Laboratory.

TABLES

Table

1 Data Tabulations, Case A

2 Data Tabulations, Case B

3 Data Tabulations, Case C

4 Data Tabulations, Case D

5 Data Tabulations, Case E

6 Data Tabulations, Case F_1

7 Data Tabulations, Case F_2

8 Data Tabulations, Case F_3

9 Data Tabulations, Case F_4

10 Data Tabulations, Case F_5

11 Summary of Discharge, H.W. 970 and 1035

FIGURES

Figure

1 Case A, Dry Model

2 Case A, Dry Model

3 Case A, Discharge - 2,709.400

4 Case B, Dry Model

5 Case B, Discharge - 3,010,000

6 Case C, Discharge - 2,824,000

7 Case D, Dry Model

8 Case D, Discharge - 388,100

9 Case D, Discharge - 2,196,500

10 Case E, Dry Model

Figure

11 Case E, Discharge - 1,569,600

12 Case F_1, Dry Model

13 Case F_2, Discharge - 98,500

14 Case F_3, Discharge - 1,994,200

15 Case F_4, Discharge - 2,409,000

16 Case F_5, Discharge - 3,014,700

PLATES

Plate

1 Details of Cases

2 Discharge Rating, Case A to E

3 Discharge Rating, Case F_1 to F_5

4 Topography

5 Tailwater Curve

TABLE 1

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE A

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
1A	965.42	421,800	
2A	982.75	656,500	
3A	992.97	920,300	919.0
4A	1001.80	1,181,200	932.5
5A	1011.85	1,520,300	948.0
6A	1019.65	1,805,500	959.5
7A	1028.80	2,119,400	970.2
8A	1036.60	2,436,300	981.5
9A	1045.63	2,709,400	990.0
10A	1040.20	2,709,400	T.W. Low
11A	1030.45	2,196,100	973.0
12A	912.86	95,100	
13A	925.45	141,500	
14A	939.70	214,800	
15A	1037.03	2,462,700	982.0

TABLE 2

NORRIS DAM FAILURE STUDY
SUMMARY OF TESTS RESULTS
DISCHARGE RATING
CASE B

Test No.	H. W. Elev.	Q cfs	T.W. Elev.
26B	955.53	397,000	885.0
27B	966.18	625,300	902.0
28B	973.08	800,800	913.0
29B	980.13	1,004,000	923.0
30B	986.28	1,197,000	934.0
31B	991.98	1,377,000	942.0
32B	998.43	1,597,000	950.0
33B	1004.58	1,802,000	959.0
33B	1003.38	1,802,000	Low T.W.
34B	1010.28	2,003,000	967.0
35B	1017.03	2,203,000	974.0
36B	1022.43	2,413,000	981.0
37B	1028.13	2,594,000	987.0
38B	1033.38	2,799,000	993.0
39B	1038.27	3,010,000	999.0
39B	1032.93	3,009,000	Low T.W.
40B	949.83	293,800	875.0
41B	937.68	194,900	865.0

TABLE 3

NORRIS DAM FAILURE STUDY
SUMMARY OF TESTS RESULTS
DISCHARGE RATING
CASE C

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
59C	942.23	100,900	853.0
60C	960.11	192,000	864.0
61C	973.52	295,200	876.0
62C	978.62	389,800	885.0
63C	984.62	508,700	894.5
64C	991.82	692,900	906.5
65C	998.27	901,900	918.5
66C	1004.12	1,103,000	928.5
67C	1009.67	1,295,000	938.0
68C	1014.77	1,493,000	946.5
69C	1019.42	1,686,000	954.0
70C	1024.67	1,889,000	962.5
71C	1029.47	2,095,000	969.8
72C	1033.67	2,291,000	976.0
73C	1038.50	2,493,000	983.0
74C	1043.42	2,703,000	990.0
75C	1045.79	2,824,000	994.0
76C	1043.27	2,824,000	Low T.W.
77C	930.47	57,600	845.0
78C	909.62	20,700	839.0

TABLE 4

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE D

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
42D	888.48	99,800	851.00
43D	907.15	192,800	865.00
44D	920.20	296,100	876.00
45D	929.35	388,100	885.5
46D	941.80	591,000	900.5
47D	950.13	756,200	910.5
48D	959.53	952,900	921.0
49D	971.05	1,199,800	933.0
50D	982.00	1,418,700	943.0
51D	991.00	1,599,100	951.0
52D	1000.15	1,806,400	959.0
53D	1009.60	1,996,900	966.5
54D	1018.60	2,196,500	973.5
55D	1028.05	2,421,100	981.0
56D	1035.62	2,589,800	986.5
57D	1043.20	2,778,300	993.0
58D	1027.90	2,784,900	Low T.W.

TABLE 5

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE E

Test No.	H.W. Elev.	Q cfs	T.W.(1) Elev.
16E	979.00	68,400	
17E	987.25	170,300	
18E	993.70	271,000	
19E	998.95	367,200	
20E	1010.20	601,200	900.8
21E	1018.09	781,400	912.8
22E	1025.95	979,400	923.0
23E	1033.19	1,175,600	932.2
24E	1040.80	1,386,300	942.5
25E	1046.50	1,569,600	949.8

(1) No tailwater effect

TABLE 6

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE F_1

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
81	1007.35	384,100	885.0
82	1018.63	596,600	900.5
83	1027.25	801,300	912.7
84	1035.85	997,000	923.4
85	1043.15	1,207,100	933.5
86	1049.65	1,401,700	943.0
87	1055.80	1,598,700	951.0
88[1]	983.80	96,800	851.5
89[1]	992.80	198,700	865.0
90[1]	1000.00	296,700	875.5

[1]Model flow was unstable because of the small head on the crest. Test classified as unreliable.

TABLE 7

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE F_2

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
91[1]	982.45	98,500	851.0
92[1]	991.15	199,600	864.5
93[1]	997.90	295,700	876.0
94	1004.20	392,000	885.5
95	1014.70	594,400	900.5
96	1023.85	796,400	912.5
97	1031.65	997,100	923.0
98	1038.70	1,192,900	933.0
99	1045.42	1,400,400	942.5
100	1051.90	1,604,900	951.3

[1]Model flow was unstable because of the small head on the crest. Test classified as unreliable.

TABLE 8

NORRIS DAM FAILURE STUDY
SUMMARY OF TESTS RESULTS
DISCHARGE RATING
CASE F_3

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
101	1037.65	1,609,300	951.5
102	1042.98	1,797,000	959.0
103	1048.45	1,994,200	966.0
104	1031.17	1,397,600	942.5
105	1024.65	1,196,800	933.0
106	1017.85	998,400	923.0
107	1009.90	796,100	912.50
108	1001.20	602,700	901.0
109	990.22	396,100	885.5
110	954.13	100,500	859.0
111	975.42	198,100	864.5
112	983.35	295,600	876.0

TABLE 9

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST DATA
DISCHARGE RATING
CASE F_4

Test No.	H.W. Elev.	Q cfs	T.W. Elev.
113	919.35	100,100	851.5
114	943.00	200,100	865.0
115	959.95	297,400	876.0
116	972.85	388,300	885.0
117	985.45	590,000	900.5
118	995.50	797,800	912.5
119	1003.75	994,400	923.0
120	1011.10	1,191,700	933.0
121	1017.85	1,395,000	942.5
122	1024.00	1,594,500	951.0
123	1030.22	1,807,200	959.0
124	1035.70	2,003,700	966.5
125	1041.25	2,197,500	973.5
126	1046.35	2,409,000	980.5

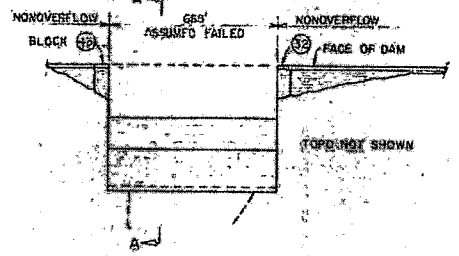
TABLE 10

NORRIS DAM FAILURE STUDY
SUMMARY OF TEST RESULTS
DISCHARGE RATING
CASE F_5

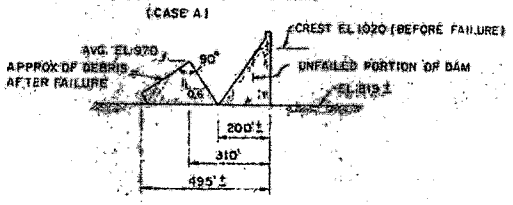
Test No.	H.W. Elev.	Q cfs	T.W. Elev.
127	1042.68	2,598,000	987.00
128	1037.65	2,399,600	980.00
129	1047.77	2,797,700	993.00
130	1054.47	3,014,700	999.00
131	1033.09	2,190,300	973.00
132	1028.65	2,007,200	966.50
133	1023.03	1,797,200	959.00
134	1016.80	1,594,400	951.00
135	1010.20	1,394,000	942.50
136	1003.30	1,196,000	933.00
137	995.98	998,500	923.40
138	987.40	799,700	912.50
139	977.65	604.300	900.50
140	959.50	393,700	885.50
141	911.35	102,100	852.00
142	931.00	199,400	864.50
143	946.00	296,200	876.00

TABLE 11
SUMMARY OF DISCHARGE
CASE A THRU F_1-F_5
HEADWATER ELEVATIONS 970 & 1035

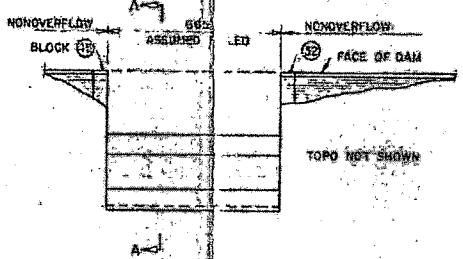
CASE	H.W. ELEV.	Q CFS	H.W. ELEV.	Q CFS
A	970	475,000	1035	2,370,000
B	970	740,000	1035	2,880,000
C	970	260,000	1035	2,310,000
D	970	1,180,000	1035	2,590,000
E	970	0	1035	1,230,000
F_1	970	0	1035	970,000
F_2	970	0	1035	1,105,000
F_3	970	165,000	1035	1,510,000
F_4	970	378,000	1035	1,980,000
F_5	970	505,000	1035	2,270,000



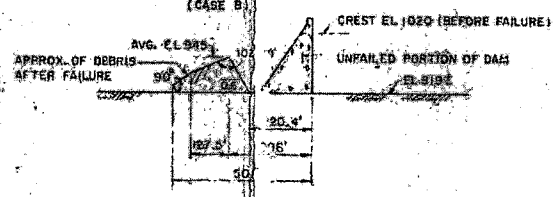
PLAN (ASSUMED AFTER FAILURE)
(CASE A)



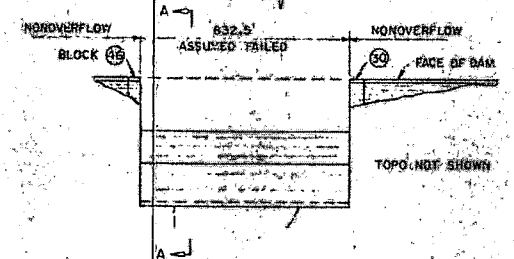
SECTION A-A



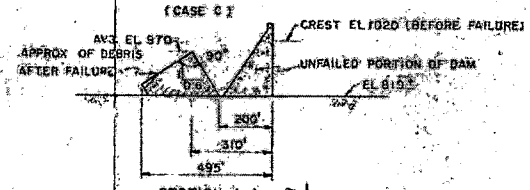
PLAN (ASSUMED AFTER FAILURE)
(CASE B)



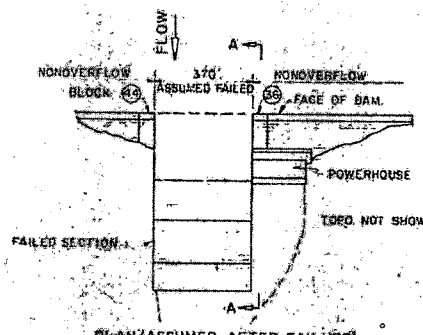
SECTION A-A



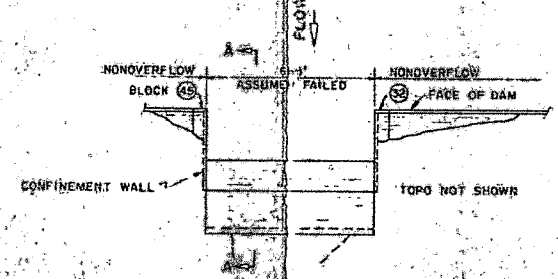
PLAN (ASSUMED AFTER FAILURE)
(CASE C)



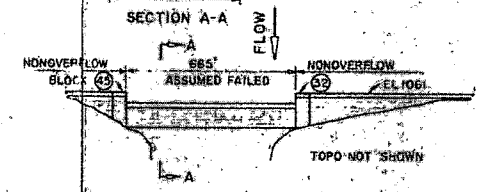
SECTION A-A



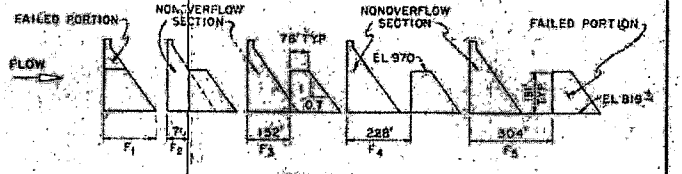
PLAN (ASSUMED AFTER FAILURE)
(CASE D)



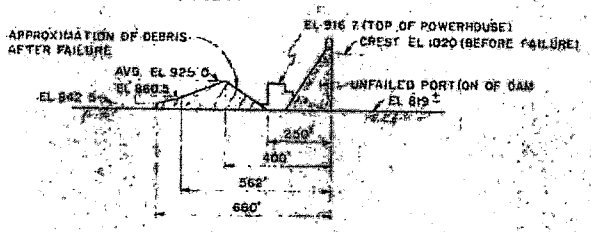
PLAN (ASSUMED AFTER FAILURE)
(CASE E)



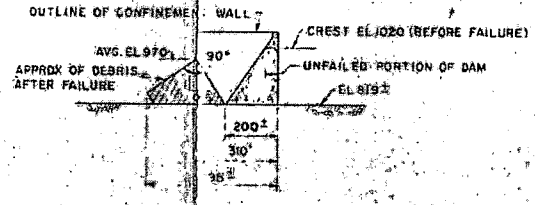
PLAN (ASSUMED AFTER FAILURE)
(CASE F)



SECTION A-A



SECTION A-A



SECTION A-A

NORRIS DAM FAILURE STUDY

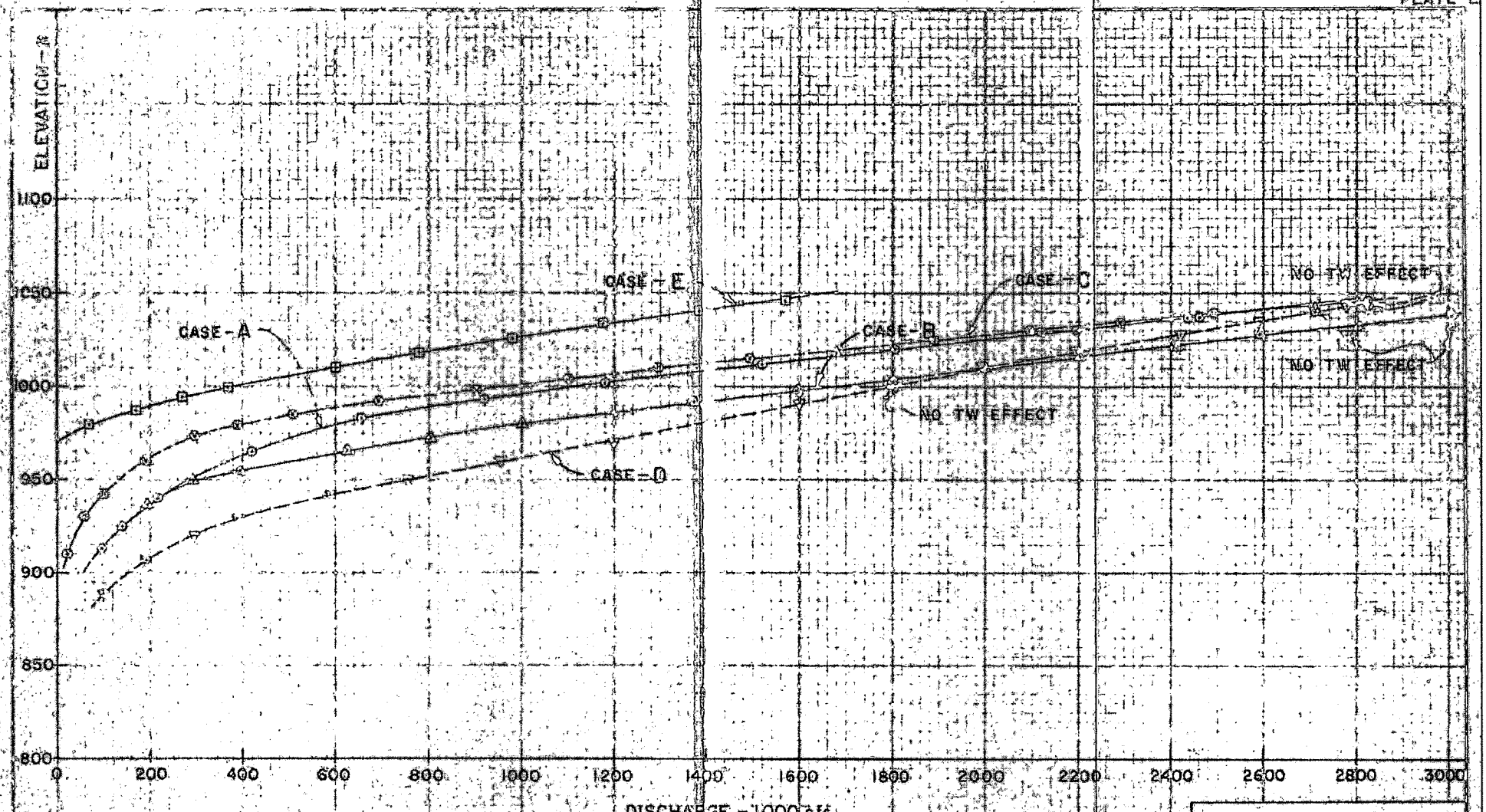
DETAILS OF

CASES A, B, C, D, E, & $F_{1 \text{ TO } 5}$

NORRIS DAM PROJECT
TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
ENGINEERING LABORATORY, CHATTANOOGA

12-18-73	2-EL-98-K-109

PLATE 2



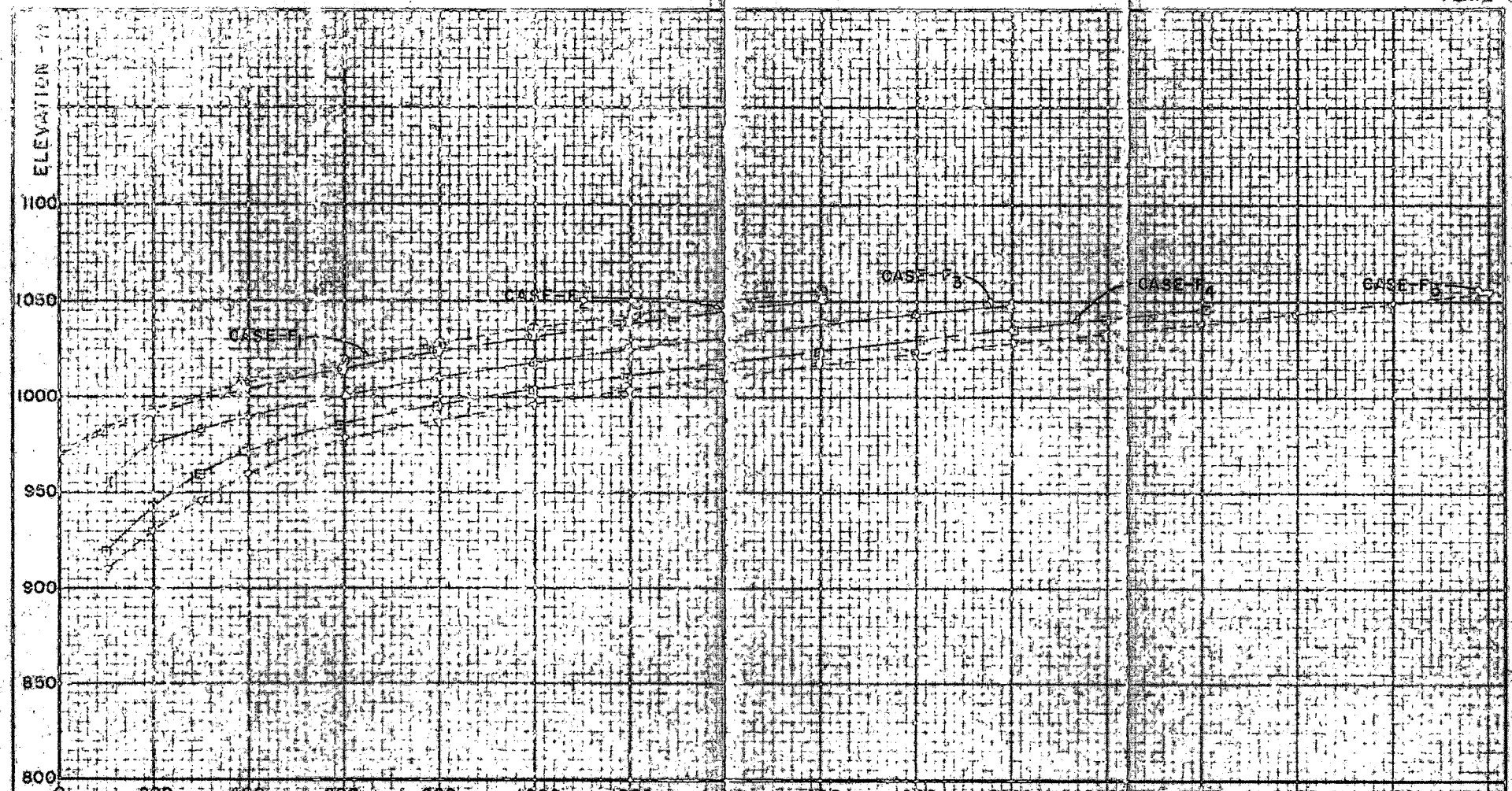
NOTE.
Tests marked NO TW EFFECT were conducted with the tailwater lowered so that it would have no influence on the headwater level.

NORRIS DAM FAILURE STUDY

DISCHARGE RATING
CASE A, B, C, D AND E

NORRIS DAM PROJECT
TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
ENGINEERING LABORATORY

NORRIS	11-9-73	2	ex. 98	B-107R



NOTE:
HEAD ON CREST OF DEBRIS
HAS NOT BEEN CORRECTED
FOR VELOCITY OF APPROACH

NORRIS DAM FAILURE STUDY

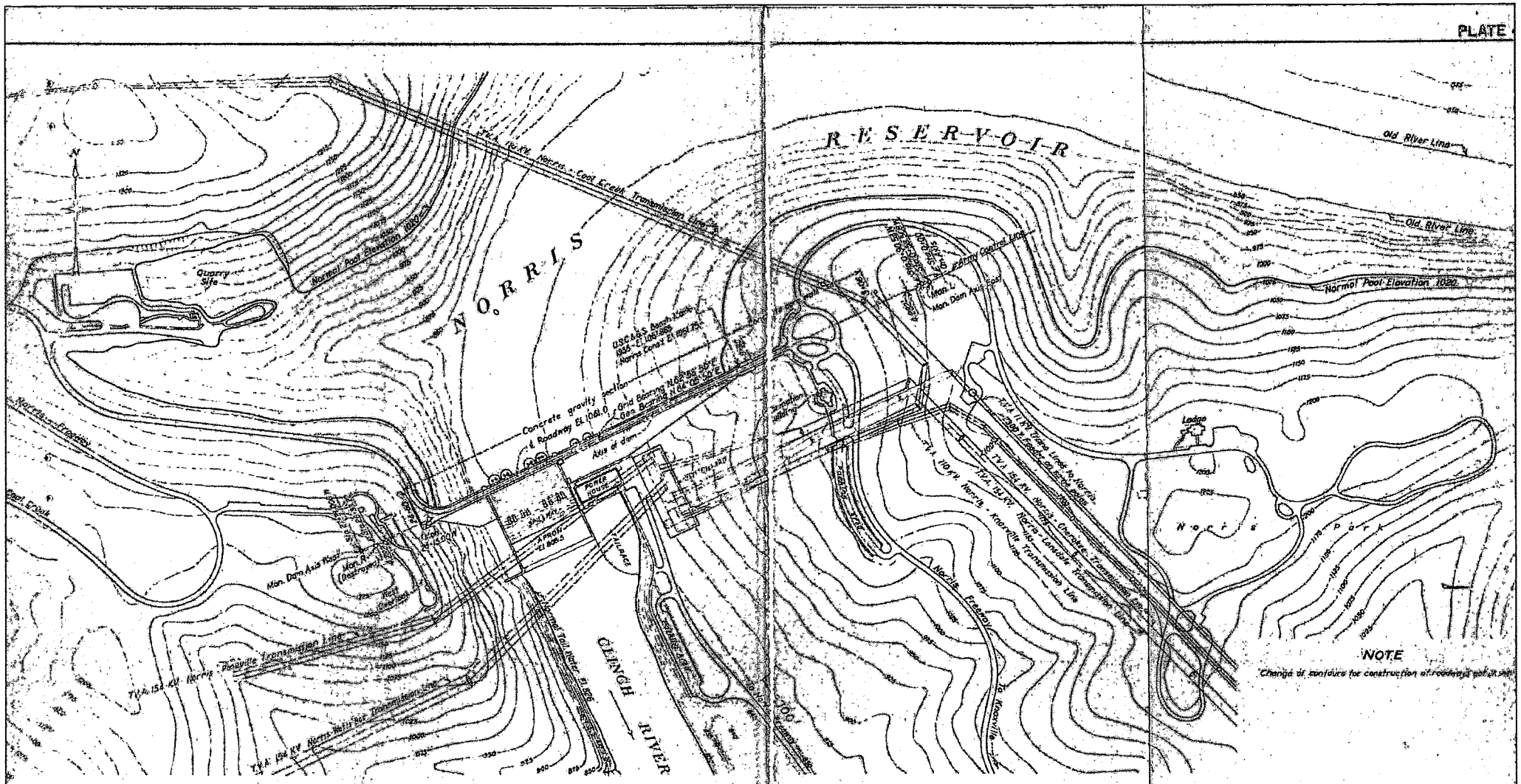
DISCHARGE RATING

CASES F_1 THRU F_5

NORRIS DAM PROJECT
TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
ENGINEERING LABORATORY

NORRIS	12-19-73	2	EL	98	8-108

PLATE



MONUMENT	CO-ORDINATES Tennessee Lambert Proj.	GEOGRAPHIC POSITION	ELEVATION Mean Sea Level Datum U.S.C.&G.S. 1929 Adj.	ELEVATION U.S.C.&G.S. 1935
L	E = 2,564,254.47 N = 672,249.78	Lat. 36°13'25.03" Long. 84°05'12.87"	1153.401	
R Destroyed	E = 2,561,902.93 N = 672,058.58	Lat. 36°13'23.63" Long. 84°05'31.89"	1199.476	
DAM AXIS EAST	E = 2,564,219.60 N = 673,236.77		1149.325	
U.S.C.&G.S. B.M. 1935			1061.75	1061.805
24-1500 N	E = 2,562,142.84 N = 672,150.78		1061.797	
DAM AXIS WEST	E = 2,561,876.24 N = 672,041.77		1062.218	

UNITED STATES
TENNESSEE VALLEY AUTHORITY
NORRIS PROJECT

NORRIS DAM
GENERAL LAYOUT

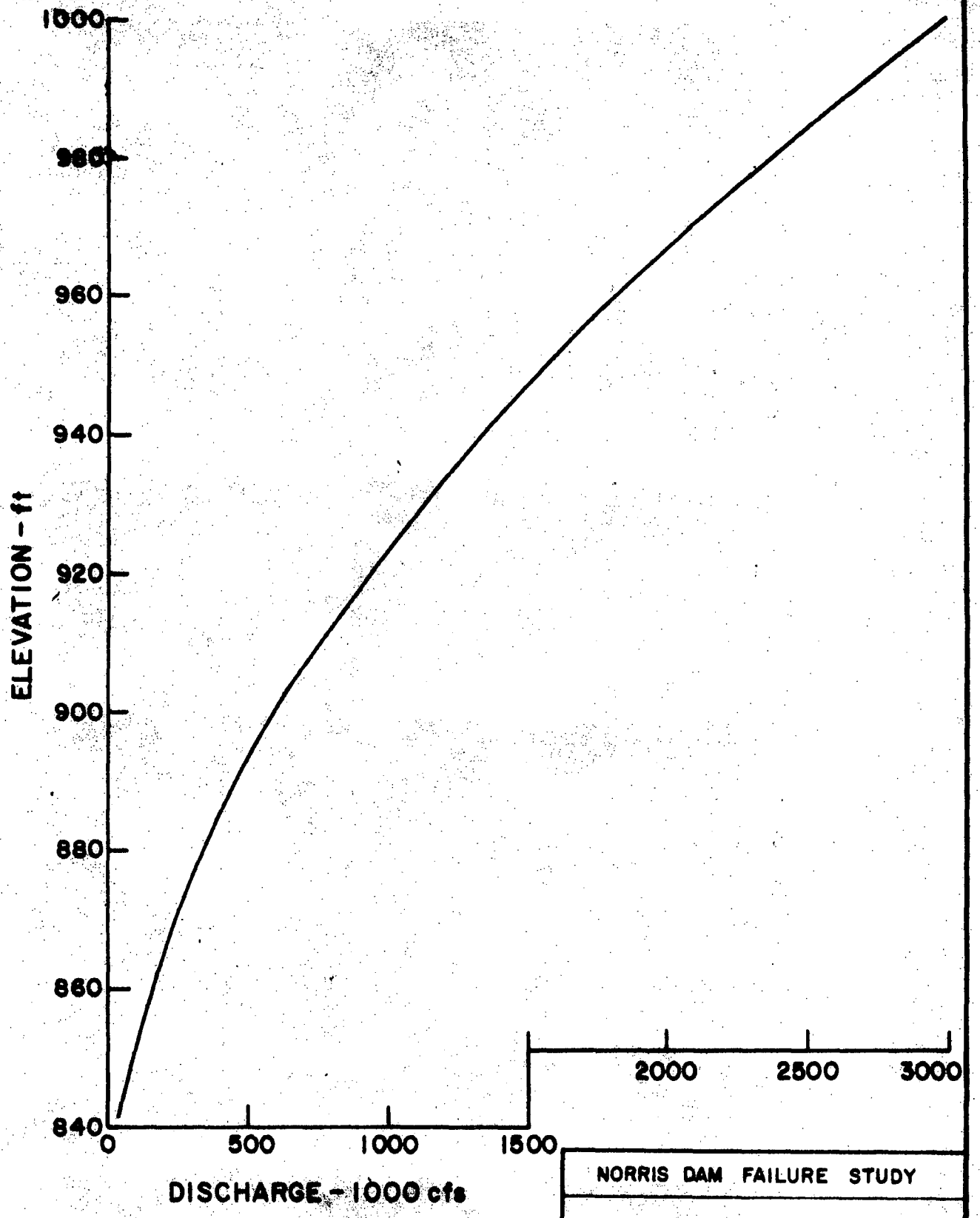
Rev. 6-17-46
Rev. 11-15-37
Reference: 100.12-3-37
R.C.S.

DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
DENVER, COLO. WINE LIBRA
232-D-26A

UNITED STATES
TENNESSEE VALLEY AUTHORITY
SUBMITTED
RECOMMENDED
APPROVED

RECORD COPY TO RS. CONSTRUCT.

PLATE 9



NORRIS DAM FAILURE STUDY

TAILWATER RATING CURVE

NORRIS DAM
TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING
ENGINEERING LABORATORY

NORRIS	1-18-74	2	EL	98	A-110

DRAWN BPW | ENGINEER KWK
CHECKED ARS | APPROVED EED

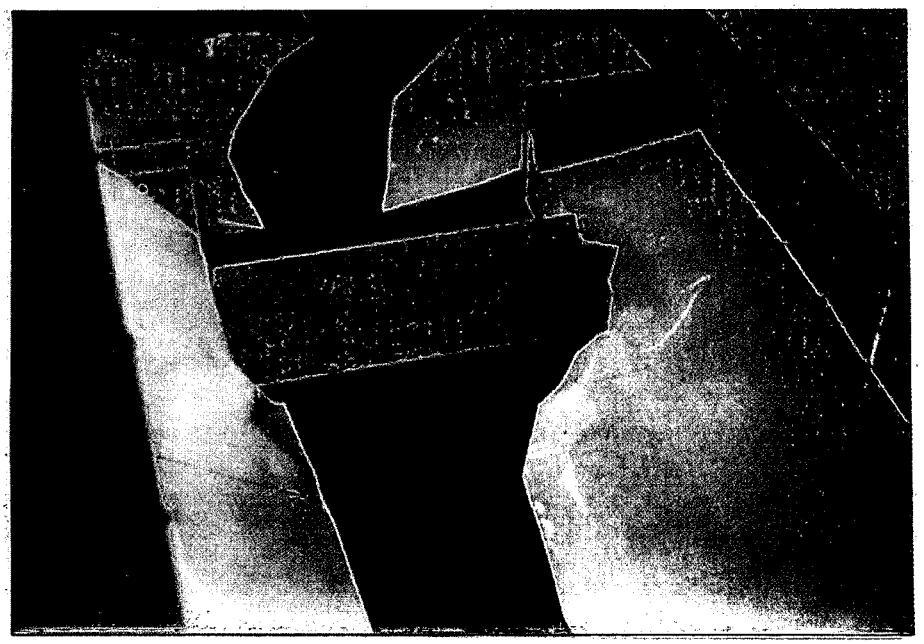


Figure 1 - General view of model
Case A - Looking upstream

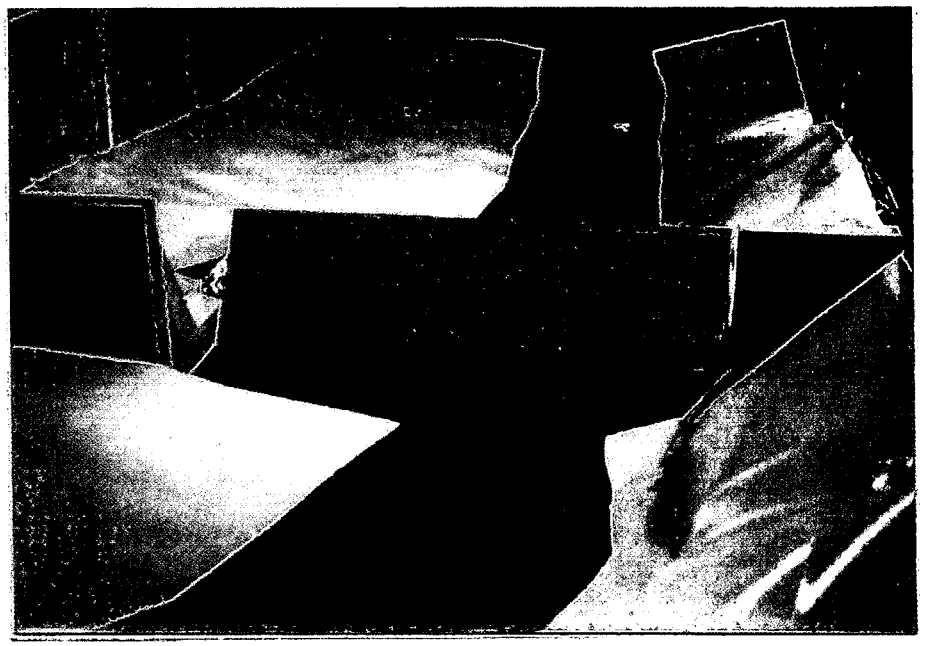


Figure 2 - General view of model
Case A - Looking downstream

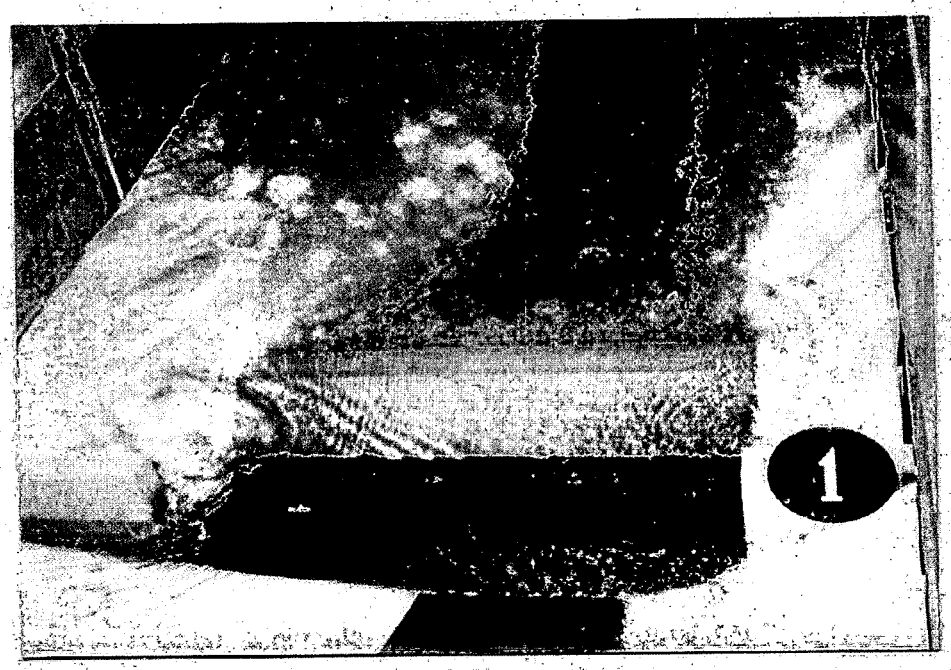


Figure 3 - H.W. El. - 1045.63
Case A - T.W. El. - 990.0
Test No. 9

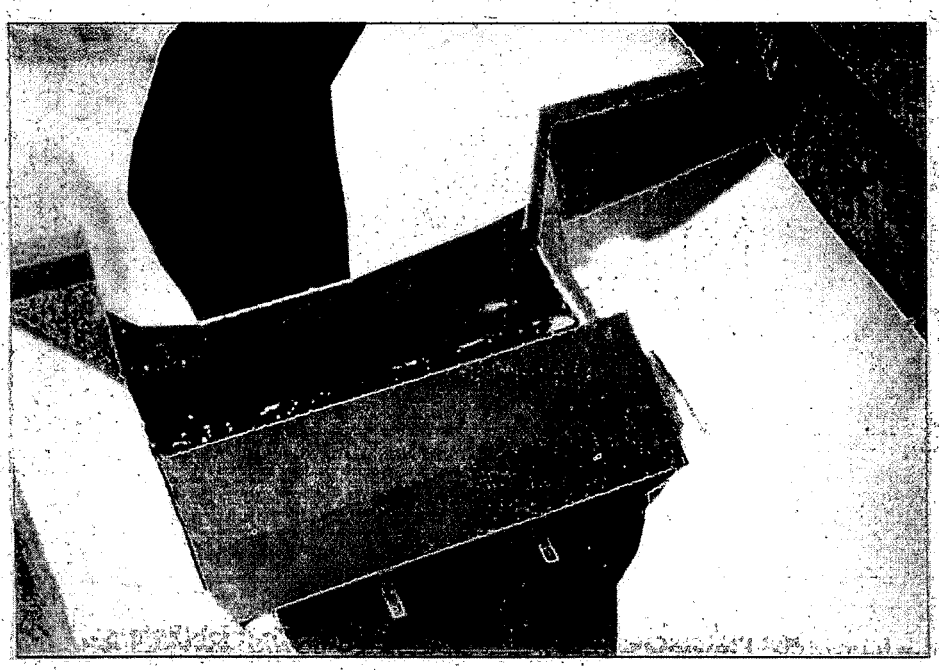


Figure 4 - General view of model
Case B - Looking upstream

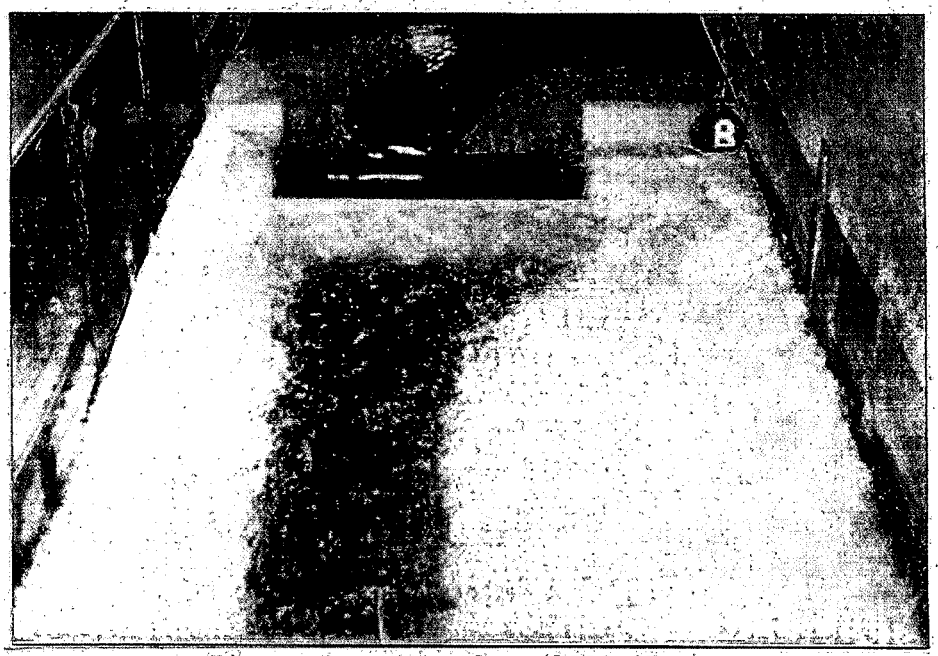


Figure 5 - H.W. El. - 1038.27
Case B - T.W. El. - 999.00
Test No. 39

Figure 6 - H.W. El. - 1045.79
Case C - T.W. El. - 994.00
Test No. 75

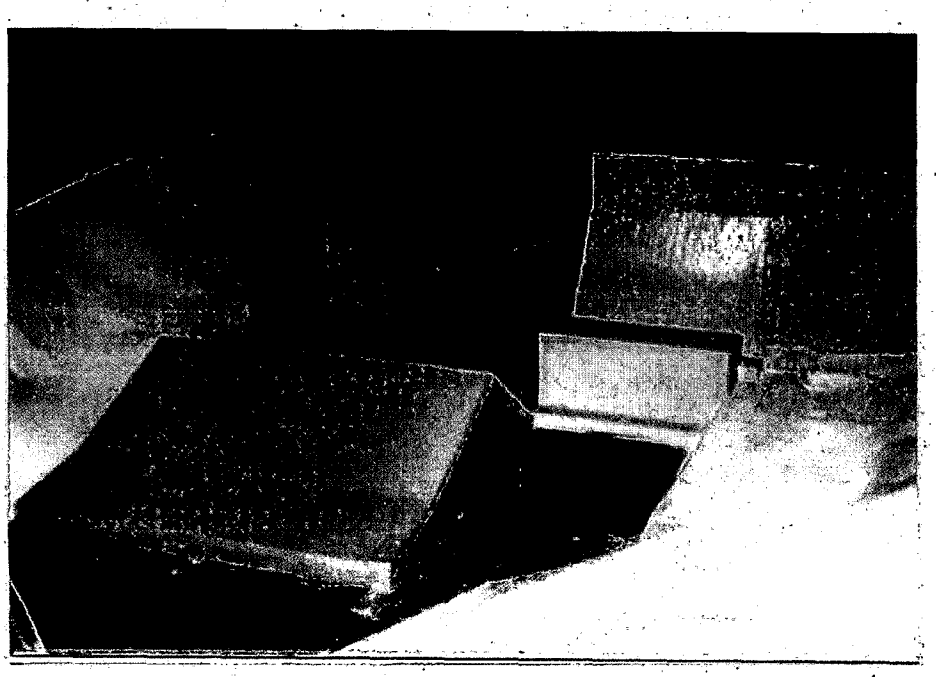


Figure 7 - General view of model
Case D - Looking upstream

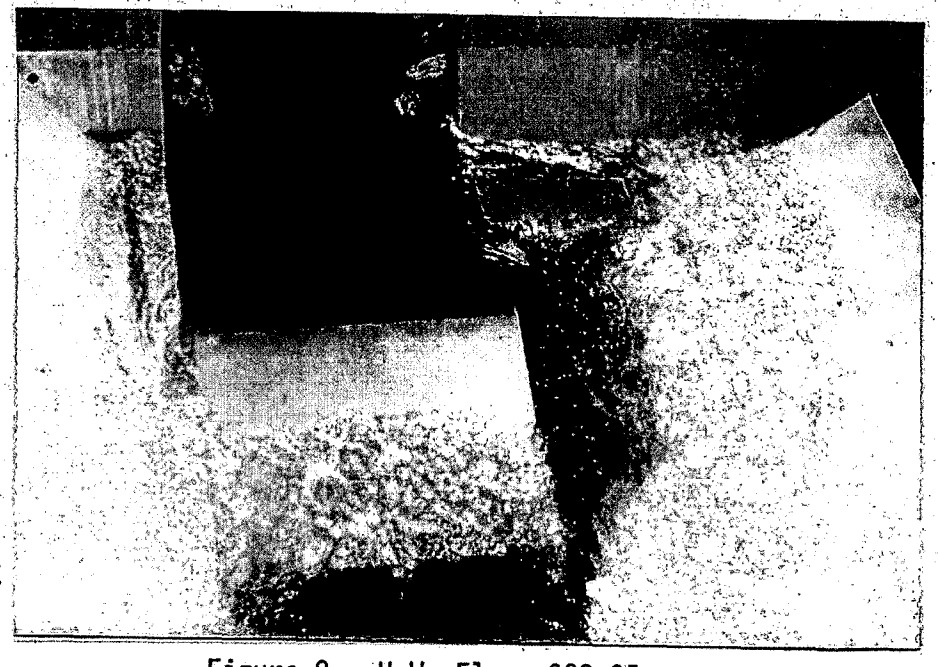


Figure 8 - H.W. El. - 929.35
Case D - T.W. El. - 885.50
Test No. 45

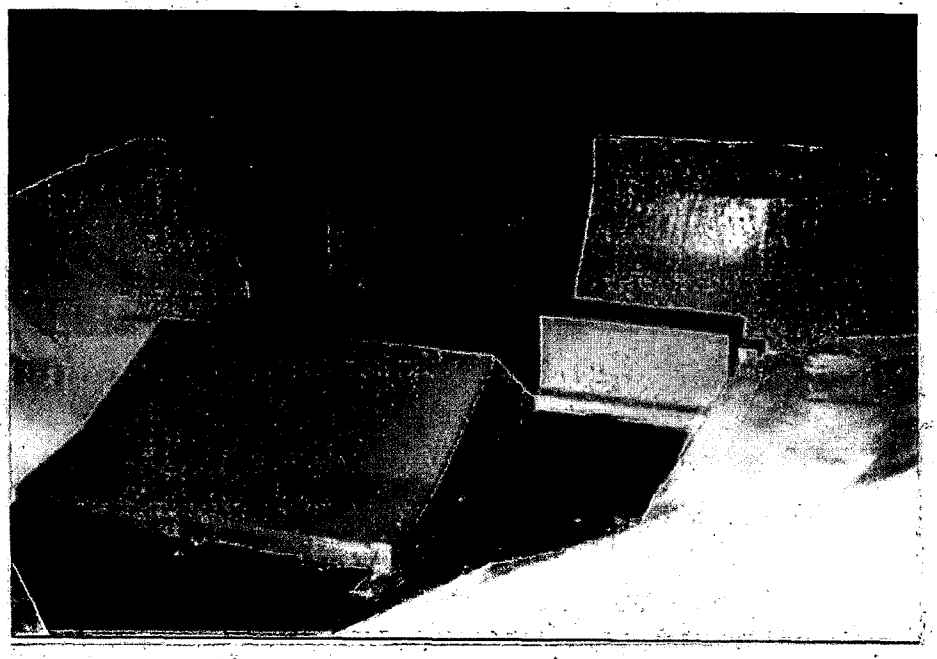


Figure 7 - General view of model
Case D - Looking upstream

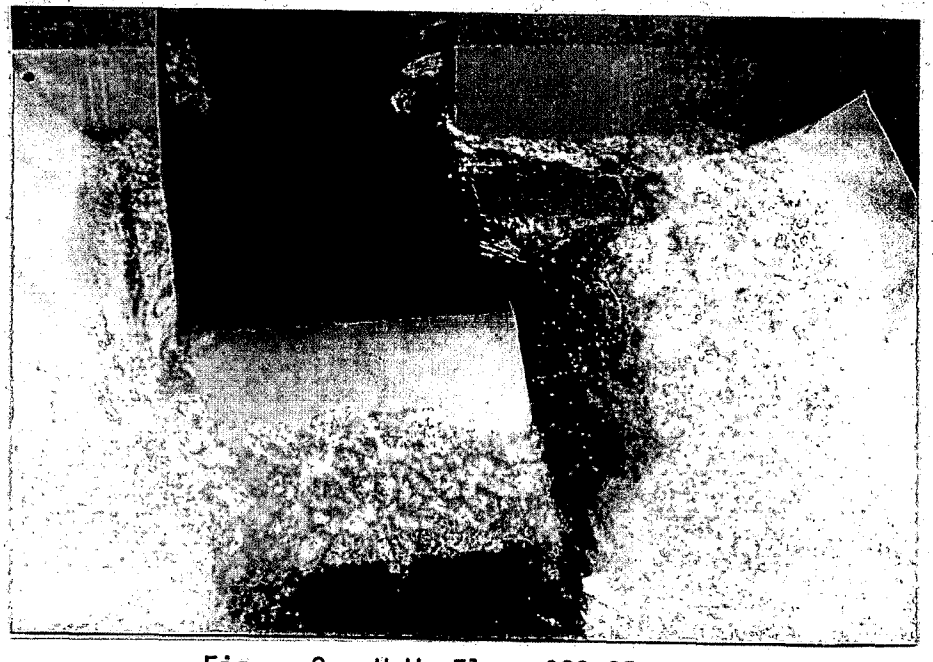


Figure 8 - H.W. El. - 929.35
Case D - T.W. El. - 885.50
Test No. 45

Figure 9 - H.W. El. - 1018.60
Case D - T.W. El. - 973.50
Test No. 54

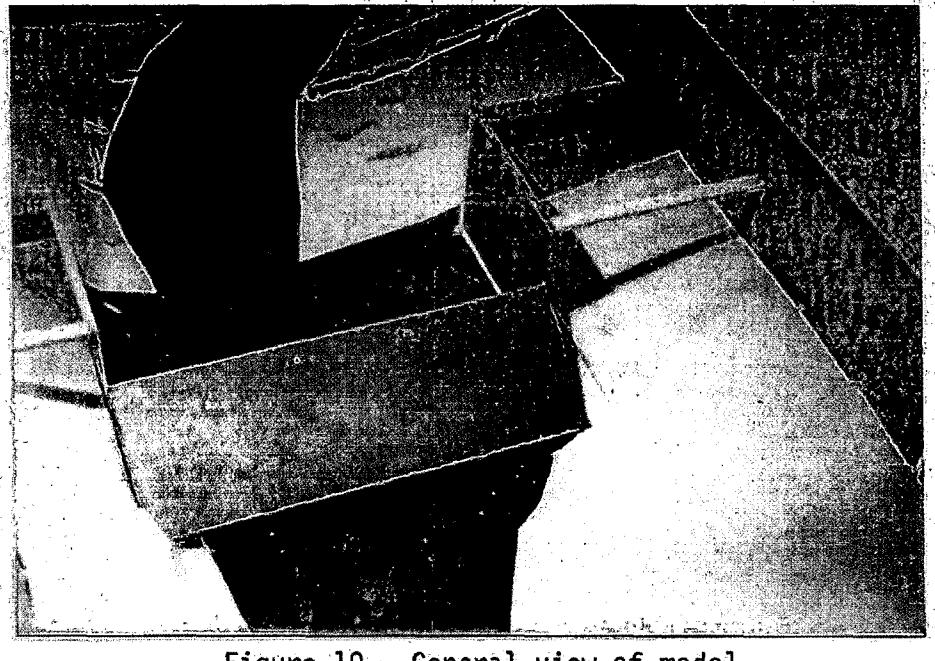


Figure 10 - General view of model
Case E - Looking upstream

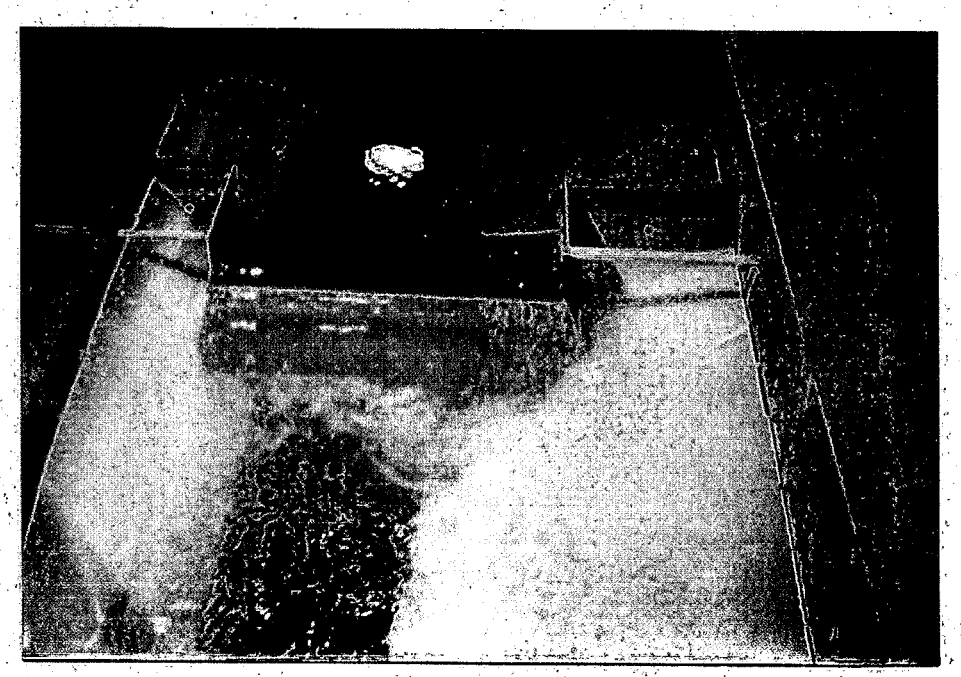


Figure 11 - H.W. El. - 1046.50
Case E - T.W. El. - 949.80
Test No. 25

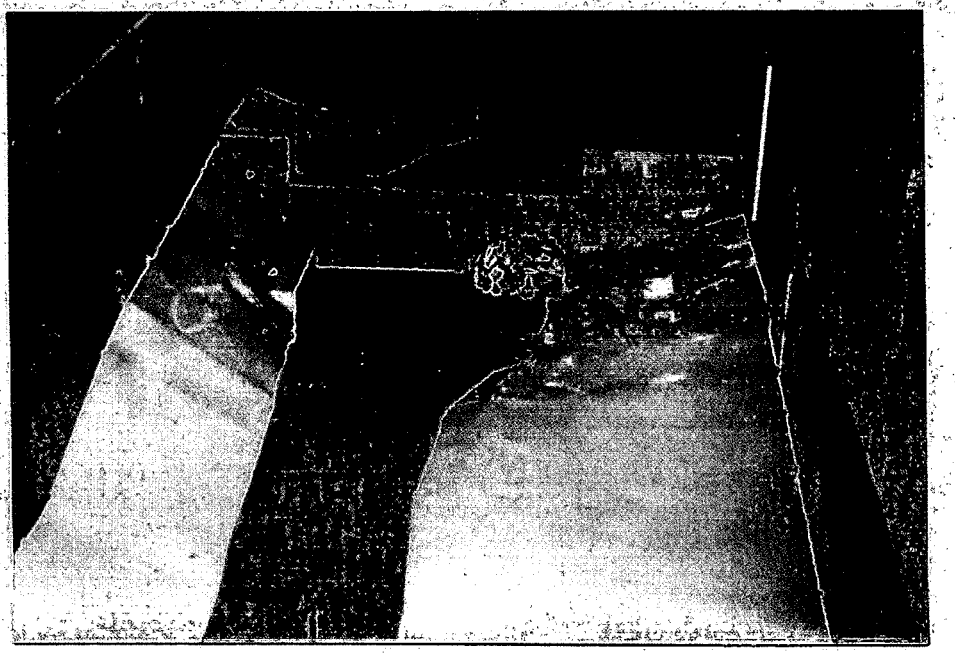


Figure 12 - General view of model
Case F_1 - Looking upstream

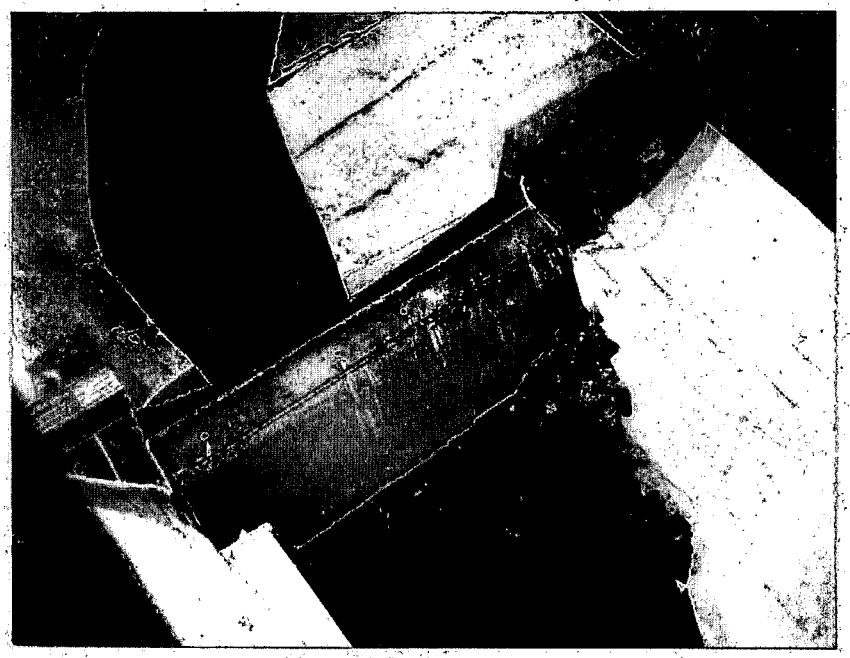


Figure 13 - H.W. El. - 982.45
Case F_2 - T.W. El. - 851.00
Test No. 91

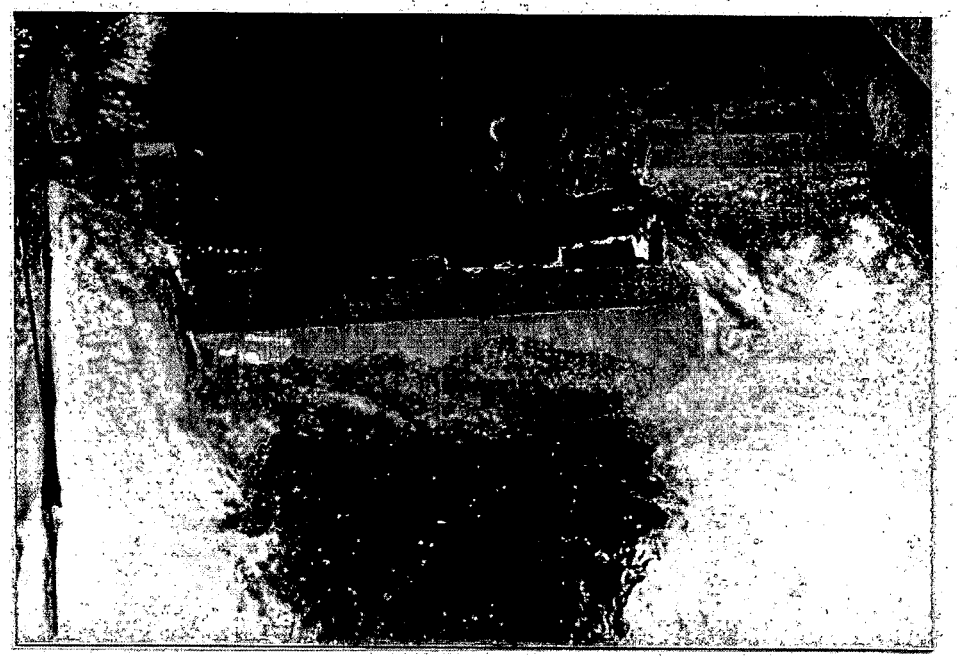


Figure 14 - H.W. El. - 1048.45
Case F_3 - T.W. El. - 966.00
Test No. 103

Figure 15 - H.W. El. - 1046.35
Case F_4 - T.W. El. - 980.50
Test No. 126

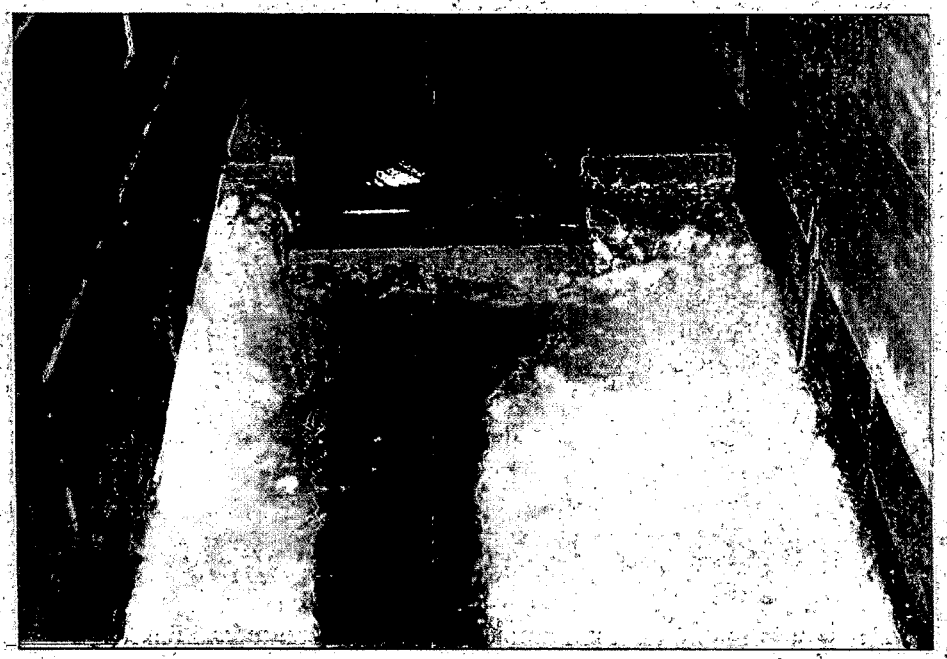


Figure 16 - H.W. El. - 1054.47
Case F_5 - T.W. El. - 999.00
Test No. 130

QA RECORD

TVA 10697 (DNE 6-86) **ORIGINAL** DNE CALCULATIONS

TITLE Cherokee Dam - Concrete stability Analyses For 1/2 SSE + 1/2 PMF	PLANT/UNIT SQN, WBN, BLN, BFN
PREPARING ORGANIZATION DPE & C	KEY NOUNS (Consult RIMS DESCRIPTORS LIST) Sequoyah NP, Cherokee Dam Stability Analyses, 1/2 SSE + 1/2 PMF
BRANCH/PROJECT IDENTIFIERS HEPESCRH SQN WBN BLN BFN ESSENT. CALCS A 5	Each time these calculations are issued, preparers must ensure that the original (RO) RIMS accession number is filled in. Rev (for RIMS' use) RIMS accession number
	RO 870415C0030 (123) B66 '870316 004
APPLICABLE DESIGN DOCUMENT(S)	R 1 880525E0013 (1) B25 '88 0520 305
	R _
SAR SECTION(S) / UNID SYSTEM(S)	R _

Revision 0	R1	R2	R3
ECN No. (or indicate Not Applicable) N/A	N/A		
Prepared L. F. Schlomer	C.D. Wagner		
Checked C. D. Wagner	L.F. Schlomer		
Reviewed Archie T. Dean	Archie T. Dean		
Approved W. C. Battrey	C.N. Johnson		
Date 3/23/87	5/20/88		
Use form TVA 10534 if more space required. List all pages added by this revision.	ii & 112		
List all pages deleted by this revision.	—		
List all pages changed by this revision.	5, 7, 13, 15, 29-35, 41, 42, 49, 53, 76-82, 87, 88, 103-110		

Safety-related? Yes ☑ No ☐

Statement of Problem

Determine effect of seismic event concurrent with major flood on typical nonoverflow and spillway blocks. Analyze for 1/2 SSE + 1/2 PMF.

Abstract

These calculations contain an unverified assumption(s) that must be verified later. Yes ☐ No ☑

Concrete stability analysis on typical nonoverflow and spillway blocks for 1/2 SSE + 1/2 PMF.

Note:

These calculations were accomplished over a period from 1972 through 1977 in support of the Sequoyah Nuclear Plant FSAR. At the request of DNE in March of 1987, they have been reviewed, verified, and put into RIMS to satisfy the nuclear calculations verification program.

☐ Microfilm and store calculations in RIMS Service Center. Microfilm and destroy. ☐

☑ Microfilm and return calculations to L. F. Schlomer Address: W3 C173 C-K

Cherokee

Cherokee - OBE + ½ Max Possible Flood

Summary of Models and Failure

HEPESCHION-WENBLN

(1) Embankment:

The Factor of Safety for South Embankment was [illegible] (less) therefore judged to fail the highest portion. Part of remaining [illegible] judged to crack. North Embankment is approximately half as high as the South Embankment and is assumed to remain in its position after OBE plus ½ max possible flood.

(2) Nonoverflow:

Nonoverflow section assumed to fail above El 961.5. Below El 981.5 the nonoverflow blocks are backed up by earth fill.

(3) Spillway & Intake:

The Spillway is assumed to fail above El 1010 (see sht 1)

The Intake is backed up by the powerhouse and is wider at the top, thus aiding stability. (has trash rack)

Therefore the intake is assumed to fail.

@ El 1010 the tension is 80 psi and the resultant falls 14' outside base. At El 981.5 the tension is 100 psi and the resultant still falls 12.6' outside the base.

Therefore assuming that Cherokee Nonoverflow will fail at El 981.5 is conservative.

(4) All debris from failure is assumed to lie below top El of remaining portion of structure and channel obstruction is caused by that portion remaining only (see drawing)

Cherokee

Scale 1" = 30' HEPE5CRHSQN-WBNBLNBFN 2.

Recevaluated by: COW 3-10-87
Checked by LFS 3-11-87

spillway ~~[illegible]~~

Kee-A is assumed to fail above El 1010

[illegible] the resultant falls outside the base

this El. This would cause the resultant

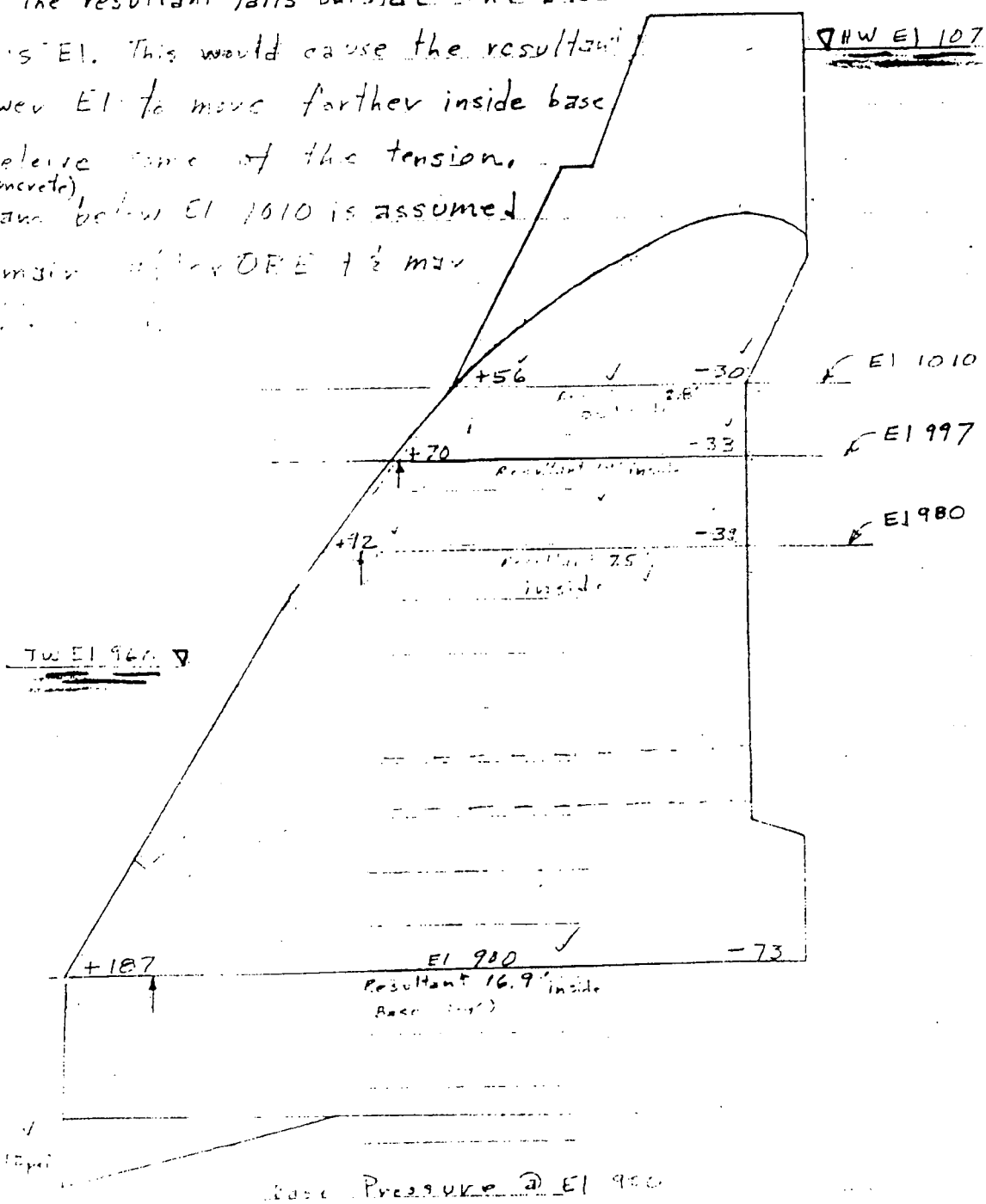
[illegible] El to move farther inside base

relieve some of the tension.

Concrete)

dam below El 1010 is assumed

[illegible] OBE [illegible] max



Base Pressure @ El 980

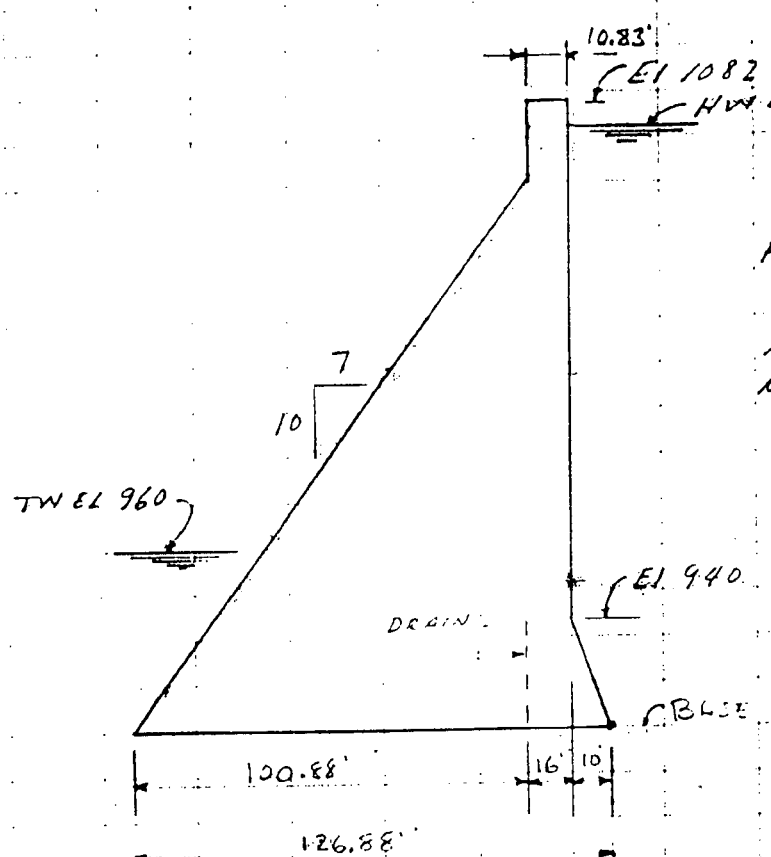
NON-OVERFLOW DAM - STABILITY ANALYSIS OBE CHEROKEE
HW EL 1075 TW EL 960 7:10 SLOPE

COMPUTED RBR DATE March, 1972
CHECKED GNA DATE 4-26-72

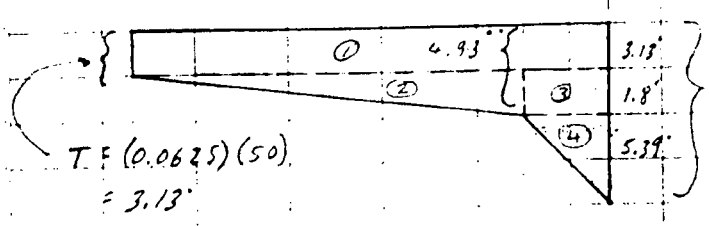
HEPESCRHSQN-WBNBLNBFN

BASE EL 910

REFER TO BOOK E-21-2 FOR STABILITY ANALYSIS COMPUTATIONS BY ANDREWS AND GRIMI. EARTHQUAKE FORCES WERE NOT INCLUDED IN ORIGINAL ANALYSIS. ORIGINAL COMPUTATIONS WILL BE REFERENCED AS NEEDED.



FROM BOOK E-21-2 SH 3
DL = 1557 k
Arm = 47.85'
M ABT HEEL = 74,500

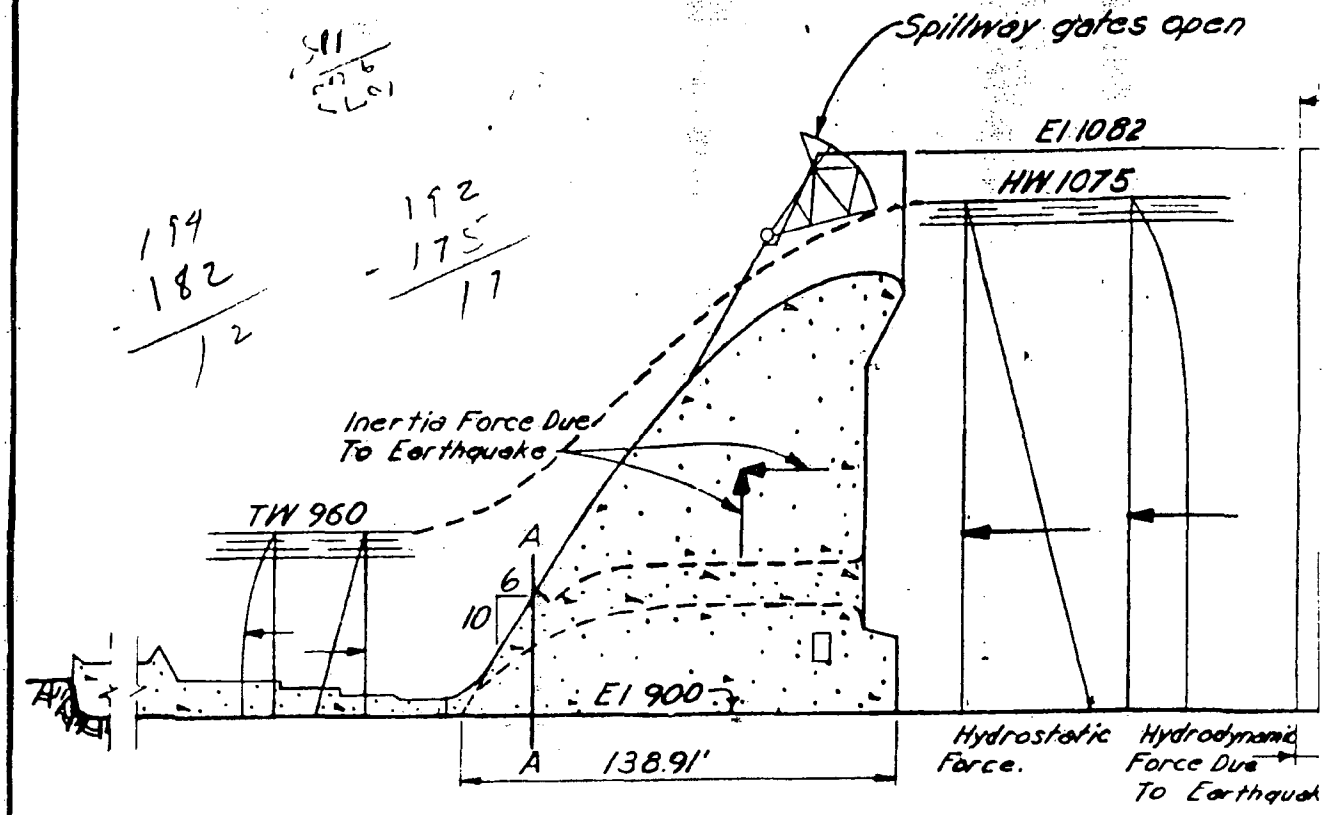


$H = 0.0625\,(165) = 10.32$

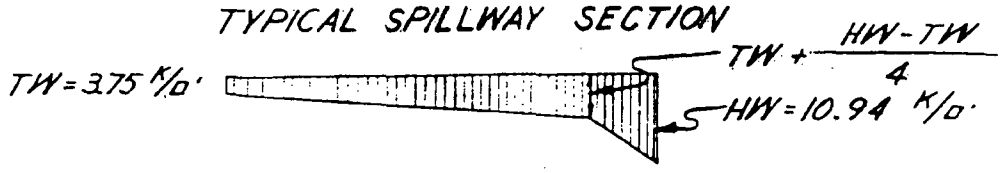
$T = (0.0625)(50)$
$= 3.13'$

$T + \frac{H-T}{4} = 3.13 + \frac{1}{4}(10.32 - 3.13)$

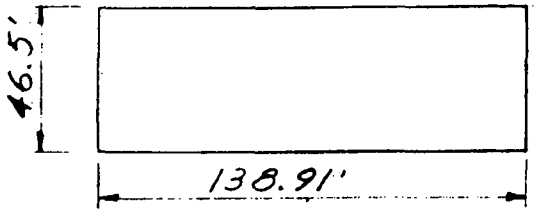
$= 3.13 + 1.8 = 4.93'$



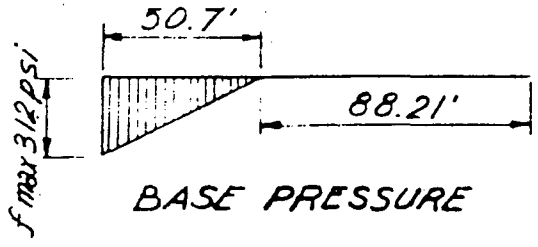
TYPICAL SPILLWAY SECTION



UPLIFT DIAGRAM El 900
UPLIFT PRESSURE ASSUMED TO ACT ON 100 % OF BASE AREA



BASE PLAN AT El 900

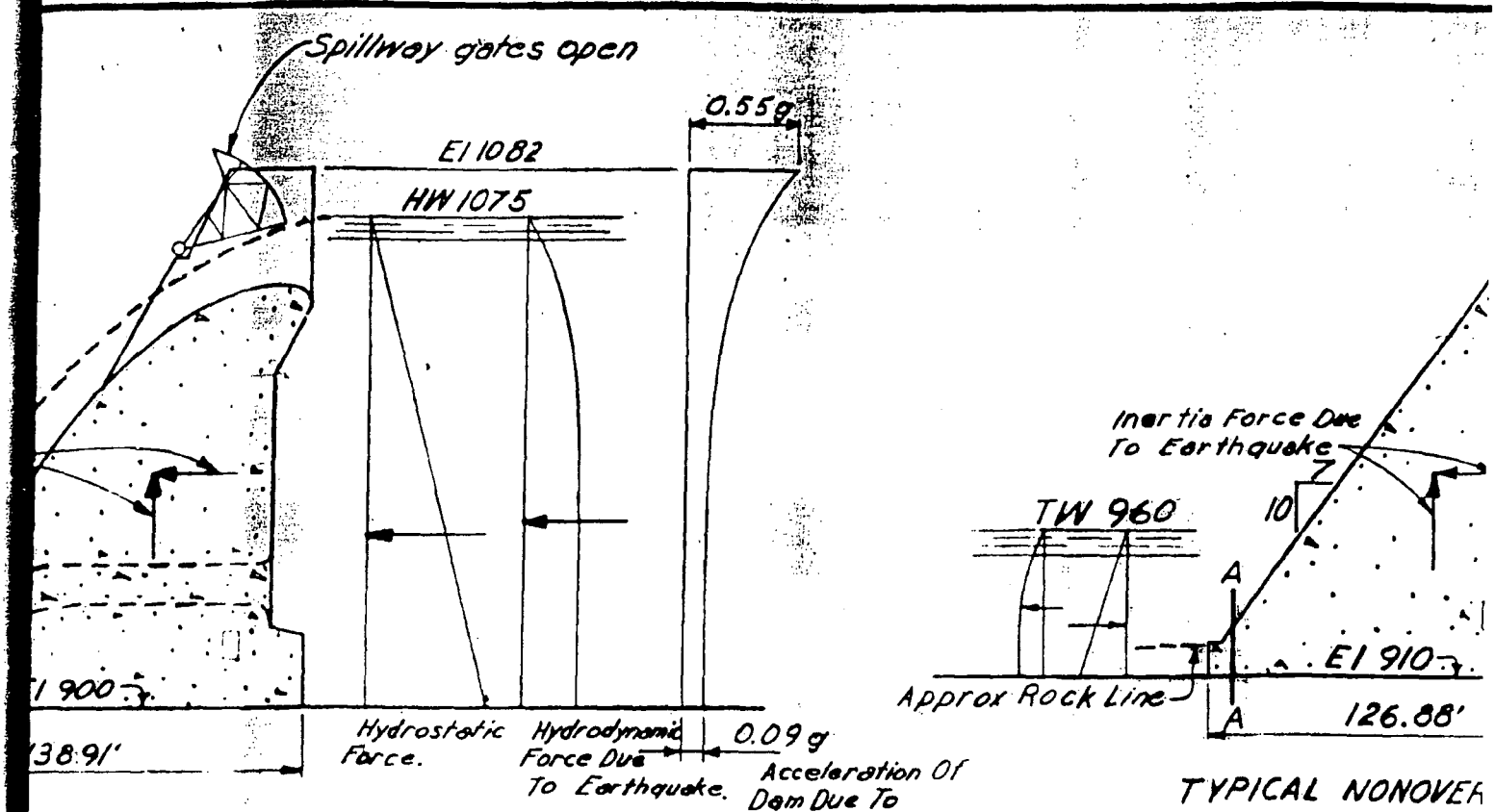


BASE PRESSURE

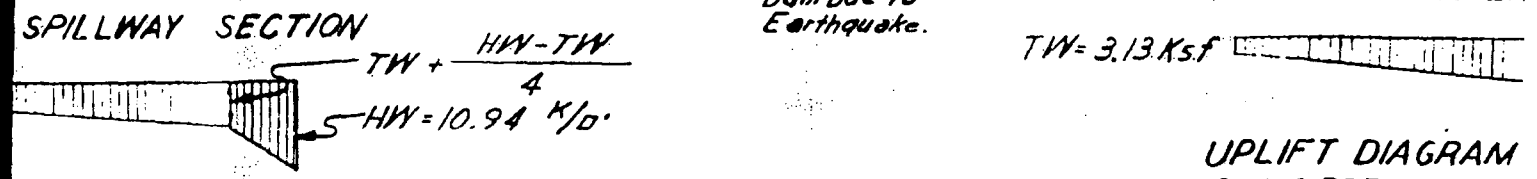
* Shear, s, that is r calculated from formula, Q = 0.65 / 2 assumed to be

** Shear stress, s, considering po compression in base area.

ΣV	ΣH	ΣH/ΣV	Avg Shear, S	S Reqd For Q=1	f max	F.S. ΣMR/ΣMo	Vertical Shear on Plane A-A
53,007K	57,276K	1.08	61 psi (centline base)	25 psi * (67 psi) **	312 psi	1.13	173 psi



SPILLWAY SECTION

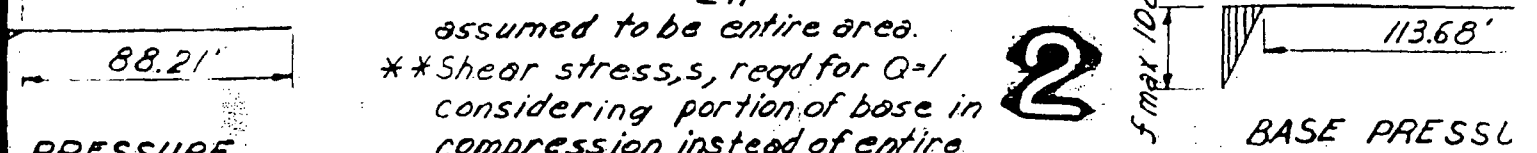


AGRAM' El 900
ESSURE ASSUMED TO
% OF BASE AREA

UPLIFT DIAGRAM
UPLIFT PRESSURE AS
ACT ON 100 % OF BA

PLAN AT El 900

BASE PLAN AT



PRESSURE

BASE PRESSU

* Shear, s, that is reqd for Q=1, is calculated from shear-friction formula, $Q = \frac{0.65\Sigma V + SA}{\Sigma H}$; A is assumed to be entire area.

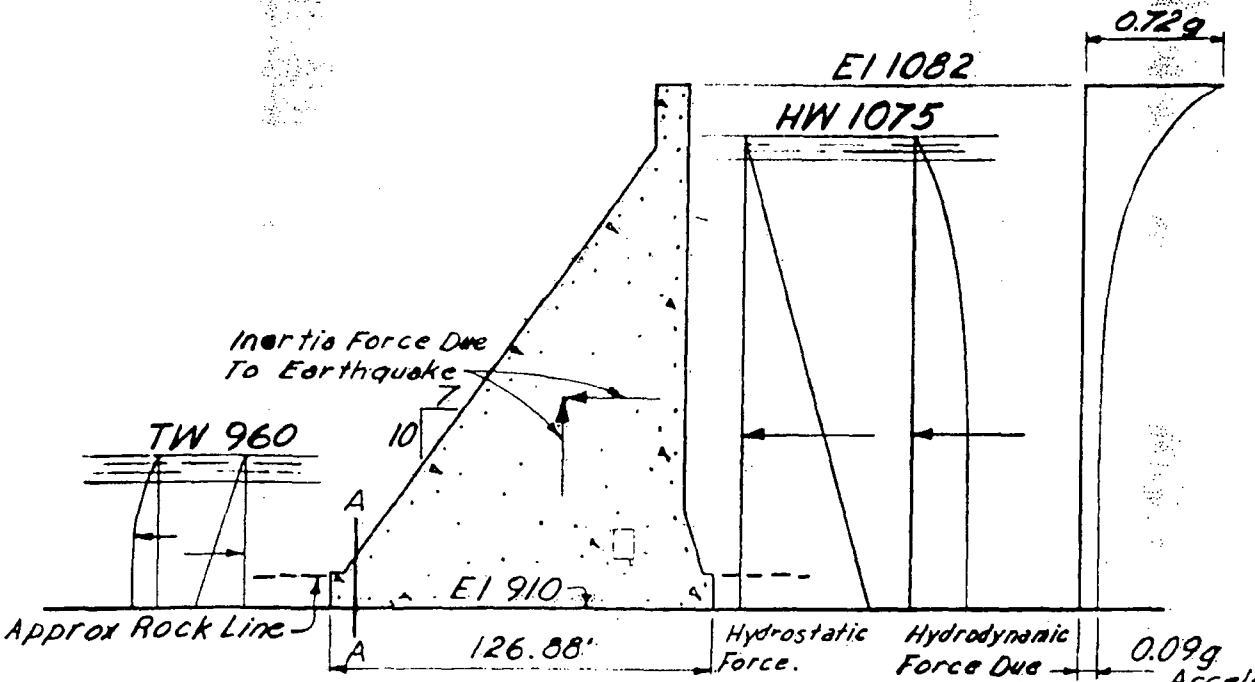
** Shear stress, s, reqd for Q=1 considering portion of base in compression instead of entire base area.

2

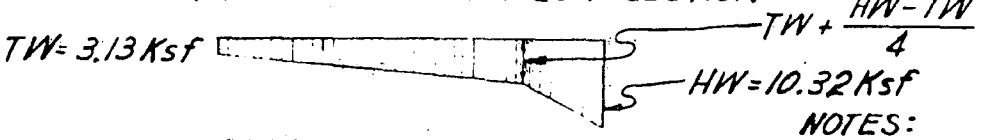
Avg Shear, S	S Reqd For Q=1	f max	F.S. $\frac{\Sigma M_R}{\Sigma M_O}$	Vertical Shear on Plane A-A
61 psi (entire base)	25 psi * (67 psi) **	312 psi	1.13	173 psi

ΣV	ΣH	$\frac{\Sigma H}{\Sigma V}$	Avg Shear, S	S Reqd For Q=1	f max
1022 K	1255 K	1.23	69 psi (entire base)	32 psi * (310 psi) **	1080 psi

HEPE5CRHSQN-WBNBLNBFN



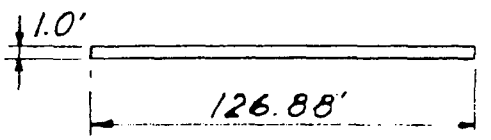
TYPICAL NONOVERFLOW SECTION



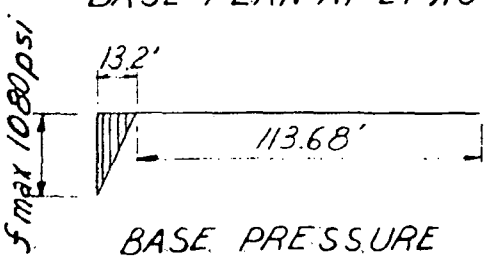
UPLIFT DIAGRAM El 910
UPLIFT PRESSURE ASSUMED TO ACT ON 100 % OF BASE AREA

NOTES:

1. Vertical acceleration of nonoverflow and spillway at base assumed to be 0.06g. By dynamic analysis, amplification of acceleration above the base was determined to be 0.14g at the top for the nonoverflow section and 0.11g at the top for the spillway.
2. Horizontal acceleration of nonoverflow and spillway at base assumed to be 0.09g. By dynamic analysis, amplification of acceleration above the base was determined to be 0.72g at the top for the nonoverflow section and 0.55g at the top for the spillway.
3. Spillway gates assumed open for this analysis.



BASE PLAN AT El 910



BASE PRESSURE

3

Scale 1"=60'

or Q=1, is
r-friction
FA, A is
e area.
for Q=1
of base in
of entire

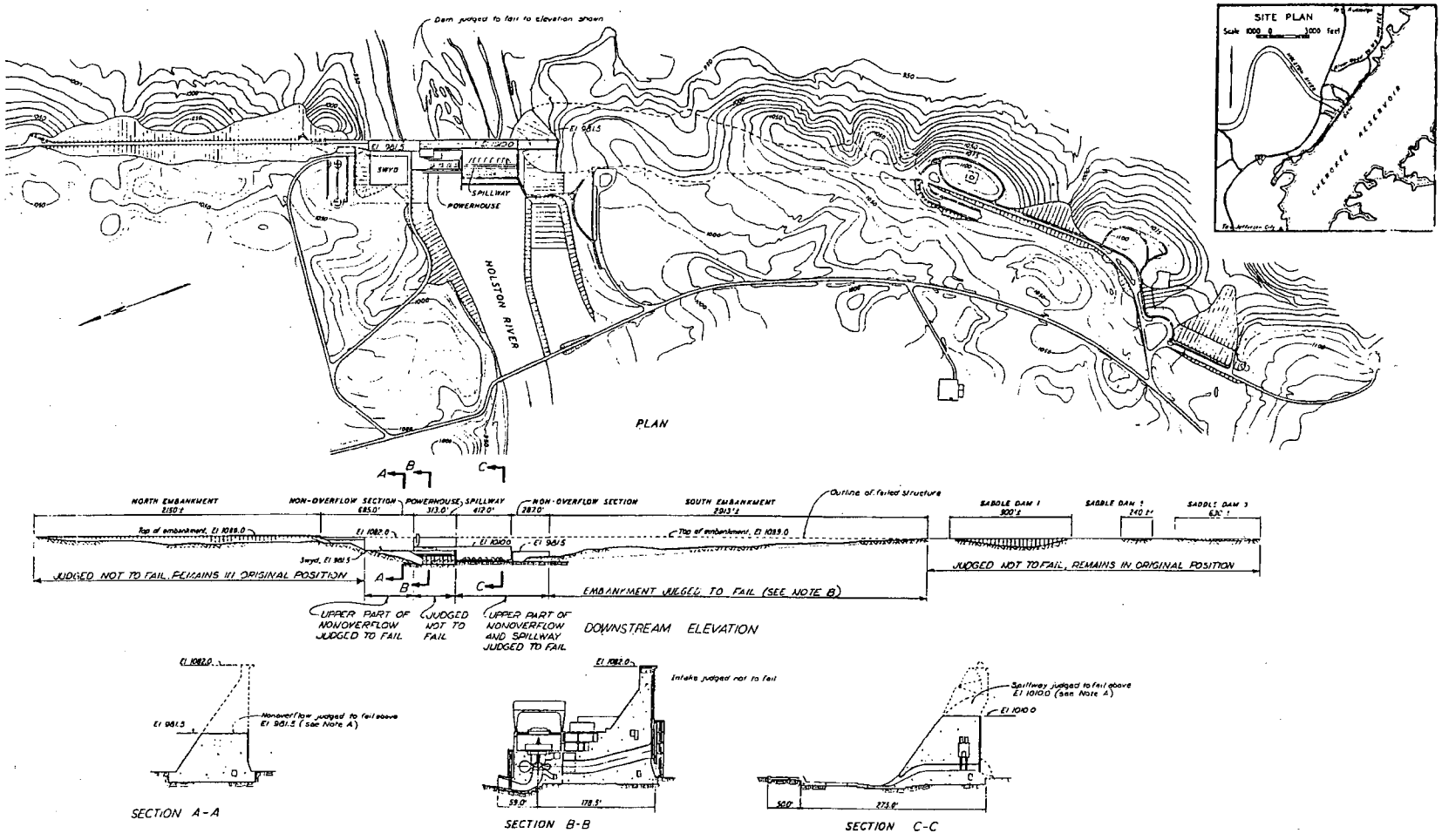
V	ΣH	ΣH/ΣV	Avg Shear, S	S Reqd For Q=1	f max	F.S. ΣMR/ΣMo	Vertical Shear on Plane A-A
K	1255K	1.23	69 psi [illegible]	32 psi * (210 psi)**	1080 psi	1.03	522 psi

SPILLWAY & NONOVERFLOW

RESULTS OF ANALYSIS FOR OPERATING BASIS EARTHQUAKE

CHEROKEE DAM
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED | RECOMMENDED | APPROVED



Note A:
All debris from failed portion of dam judged to be below failure elevations
Note B:
High portion of embankment judged to failduring earthquake. Other portion assumed to erode after failure.

TVA CALCULATION, "CHEROKEE DAM – CONCRETE STABILITY ANALYSIS FOR ½ SSE + ½ PMF"

ASSUMED CONDITION OF DAM AFTER FAILURE
PBE AND ½ PROBABLE MAX FLOOD
Cherokee Dam

RIMS # B25 '88 0520 305