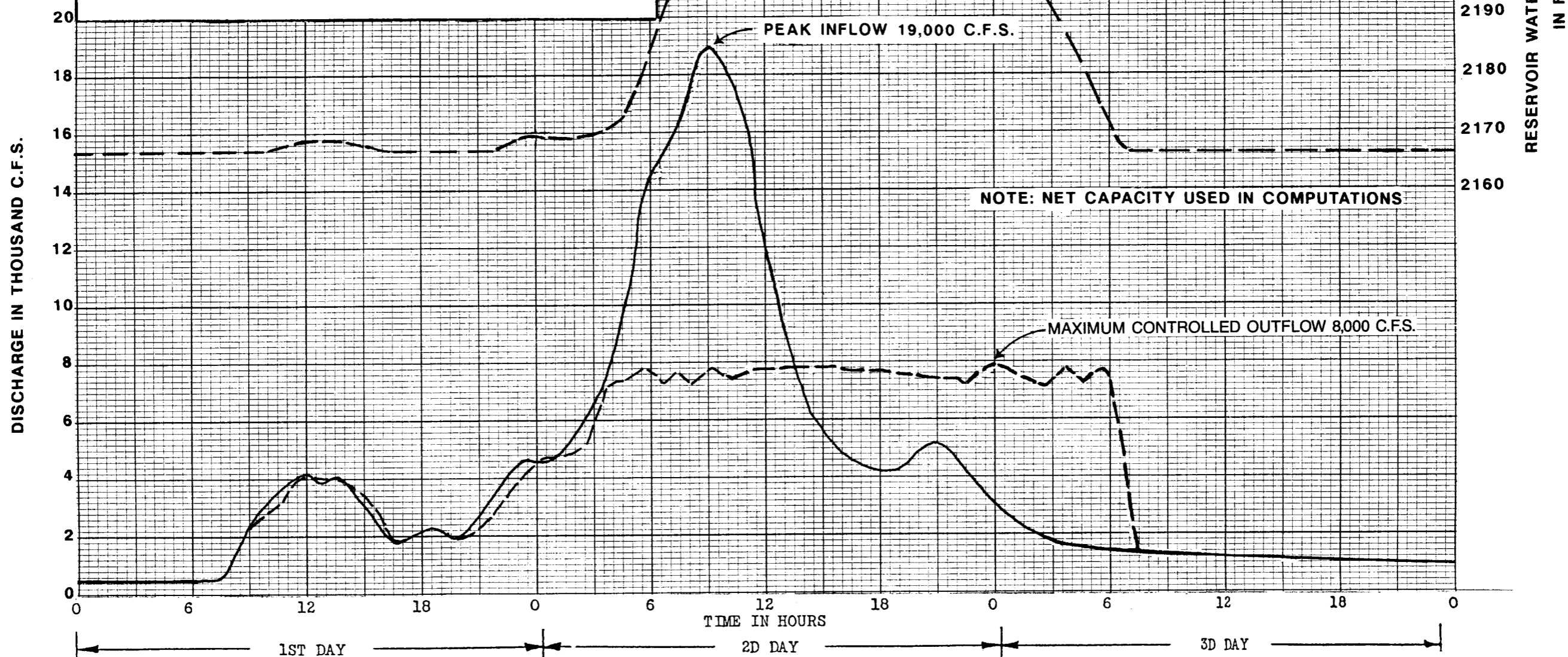


SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

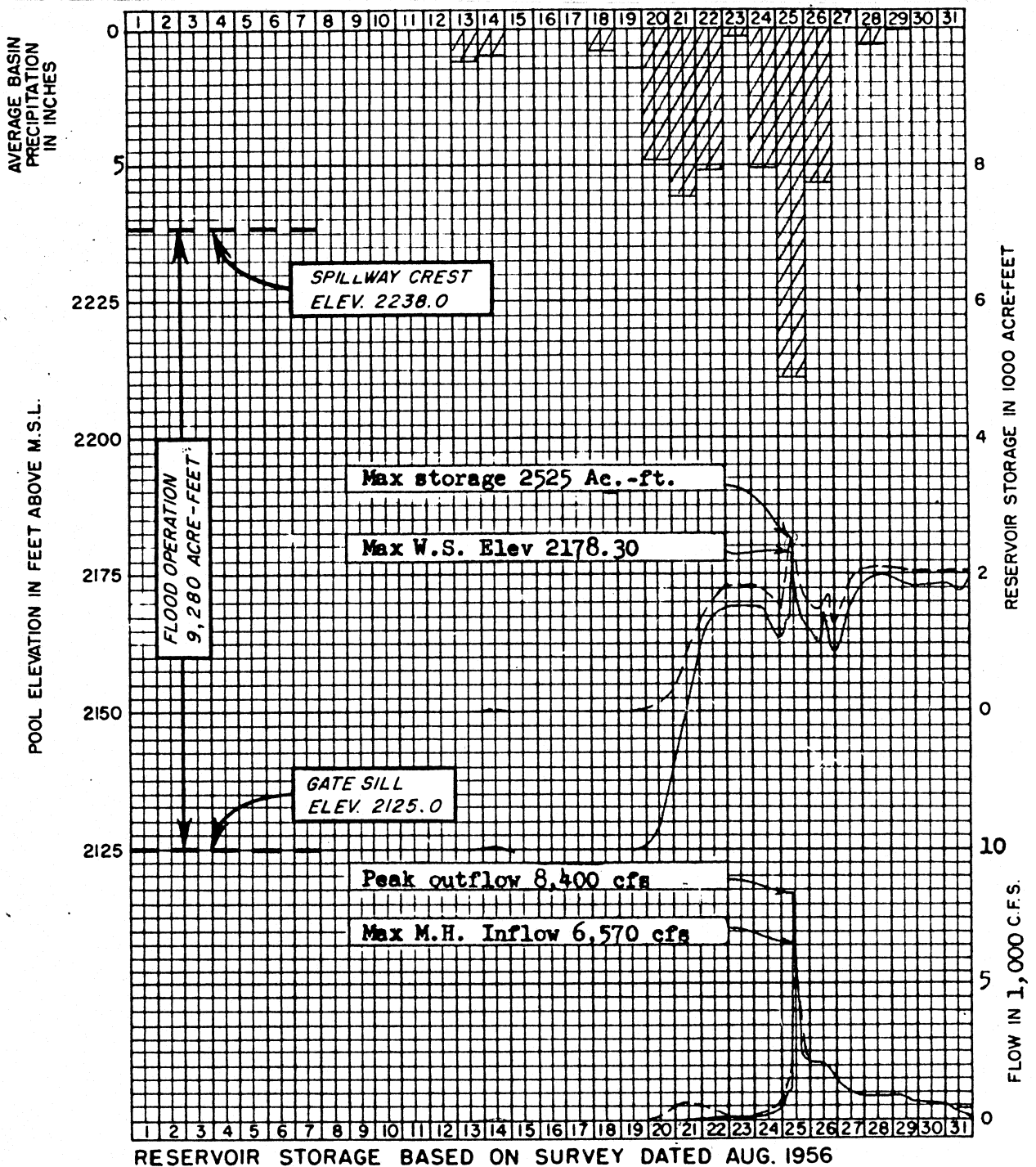
SPILLWAY DESIGN
FLOOD ROUTING

U. S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

TOTAL DRAINAGE AREA.....26.7 SQ. MI.
 AVERAGE RAINFALL DEPTH OVER AREA:
 MAXIMUM 24-HOUR.....20.9 INCHES
 TOTAL STORM.....29.4 INCHES
 RUNOFF:
 MAXIMUM 24-HOUR.....{17,600 AC.-FT.
 { 12.37 INCHES
 MAXIMUM 48-HOUR.....{22,500 AC.-FT.
 { 15.81 INCHES
 TOTAL SURFACE (EXCLUDES BASE FLOW).....{18,800 AC.-FT.
 { 13.21 INCHES



SAN ANTONIO DAM
 SAN ANTONIO CREEK, CALIFORNIA
 SAN ANTONIO DAM
 RESERVOIR DESIGN
 STANDARD PROJECT FLOOD ROUTING
 U. S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT



MONTH OF Jan 19 69

MONTHLY RESERVOIR OPERATION

SAN ANTONIO FLOOD-CONTROL BASIN

	ELEV.	GROSS STORAGE (ACRE-FT.)
Conservation Pool		NONE
Full Pool	2,238	9,280

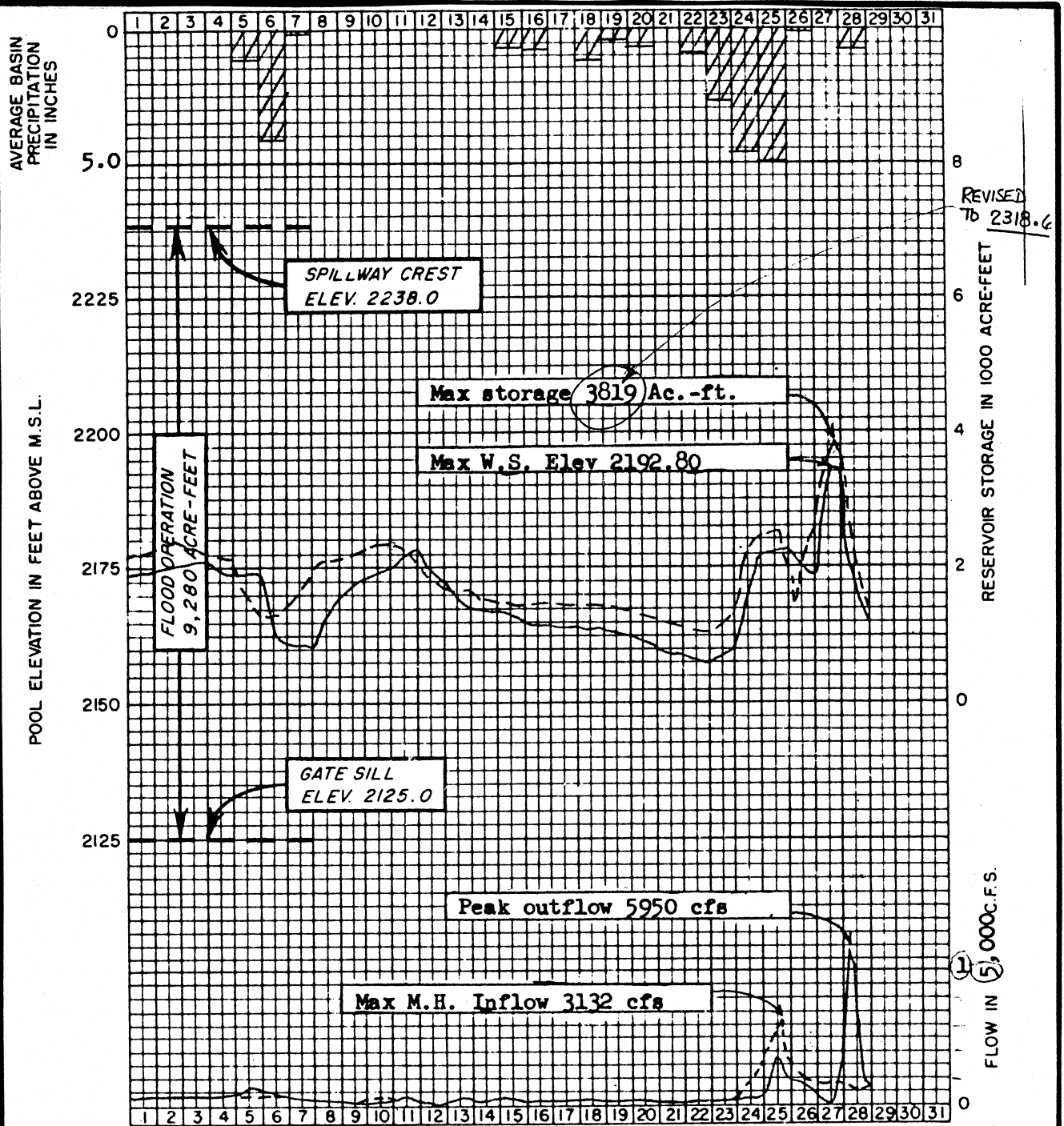
Outlet Capacity at Full Pool 11,800 c. f. s.

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

SANTA ANA RIVER BASIN
DRAINAGE AREA 26.7 SQ. MILES

OPERATION HYDROGRAPH
24-28 JANUARY 1969

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



RESERVOIR STORAGE BASED ON SURVEY DATED AUG. 1956

MONTH OF **FEB** 19 **69**

MONTHLY RESERVOIR OPERATION

SAN ANTONIO FLOOD-CONTROL BASIN

	ELEV.	GROSS STORAGE (ACRE-FT.)
Conservation Pool	NONE	NONE
Full Pool	2,238	9,280

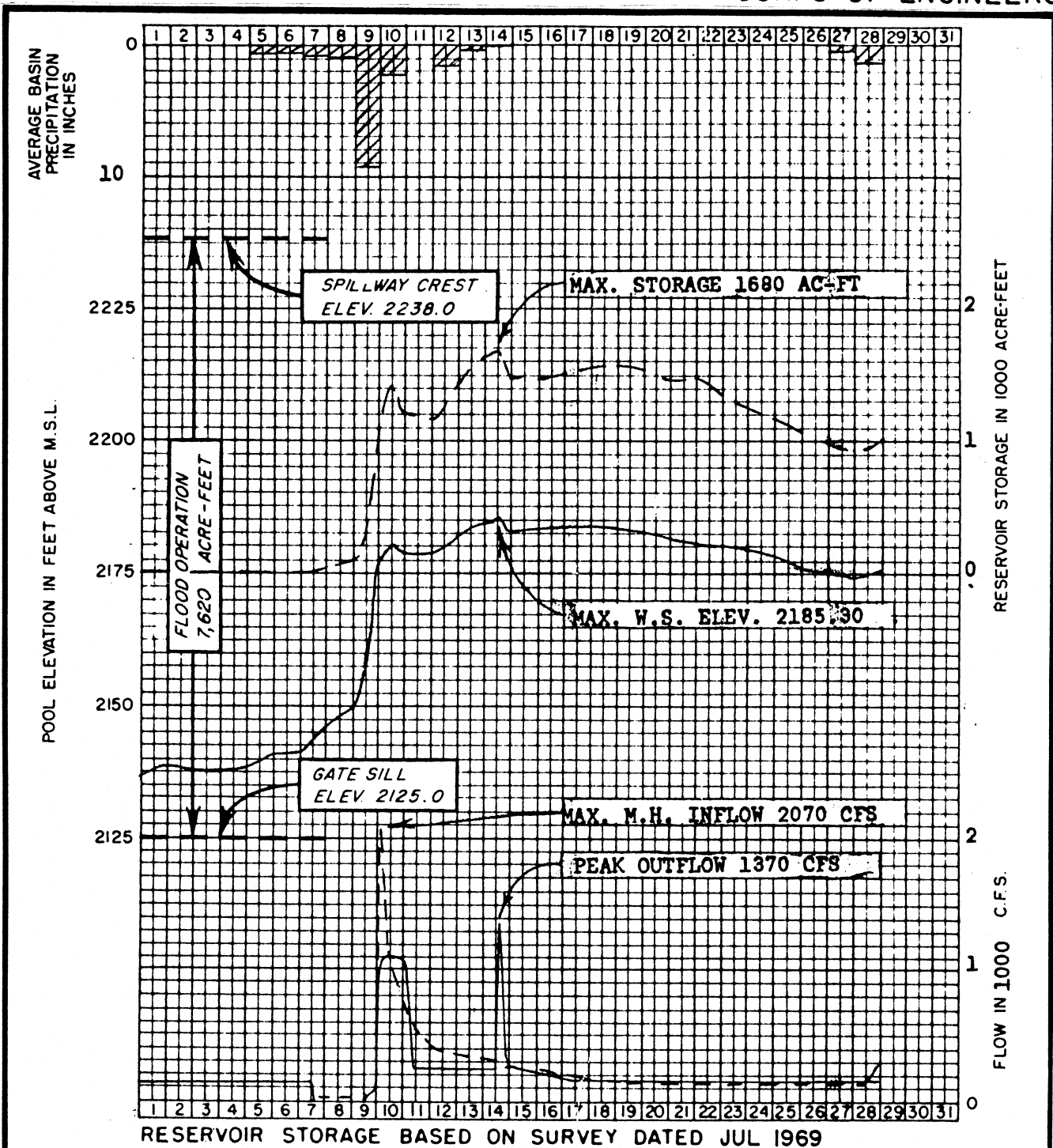
Outlet Capacity at Full Pool 11,800 c f. s.

SANTA ANA RIVER BASIN
DRAINAGE AREA 26.7 SQ. MILES

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

OPERATION HYDROGRAPH
23-27 FEBRUARY 1969

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



MONTH OF FEB 19 78

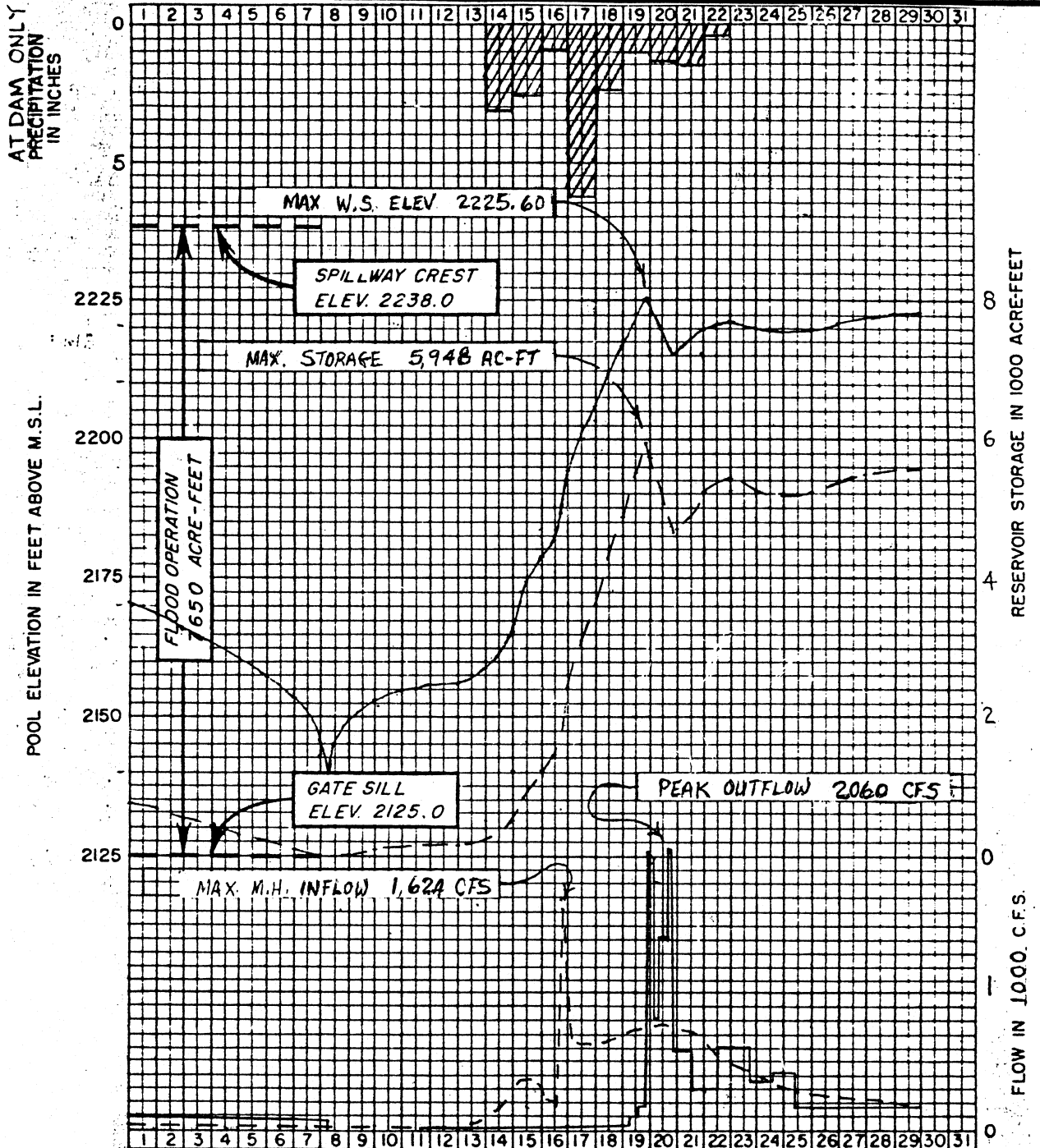
MONTHLY RESERVOIR OPERATION

SAN ANTONIO FLOOD-CONTROL BASIN

	ELEV	GROSS STORAGE (ACRE - FT.)
Conservation Pool	NONE	
Flood Control Pool	2,238	7,620
Outlet Capacity at Full Pool 11,800 c. f. s.		

SANTA ANA RIVER BASIN
DRAINAGE AREA 26.7 SQ. MILES

SAN ANTONIO DAM SAN ANTONIO CREEK, CALIFORNIA
OPERATION HYDROGRAPH 9-11 FEBRUARY 1978
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT



RESERVOIR STORAGE BASED ON SURVEY DATED AUG 1978

MONTH OF FEB 1980

MONTHLY RESERVOIR OPERATION

SAN ANTONIO FLOOD-CONTROL BASIN

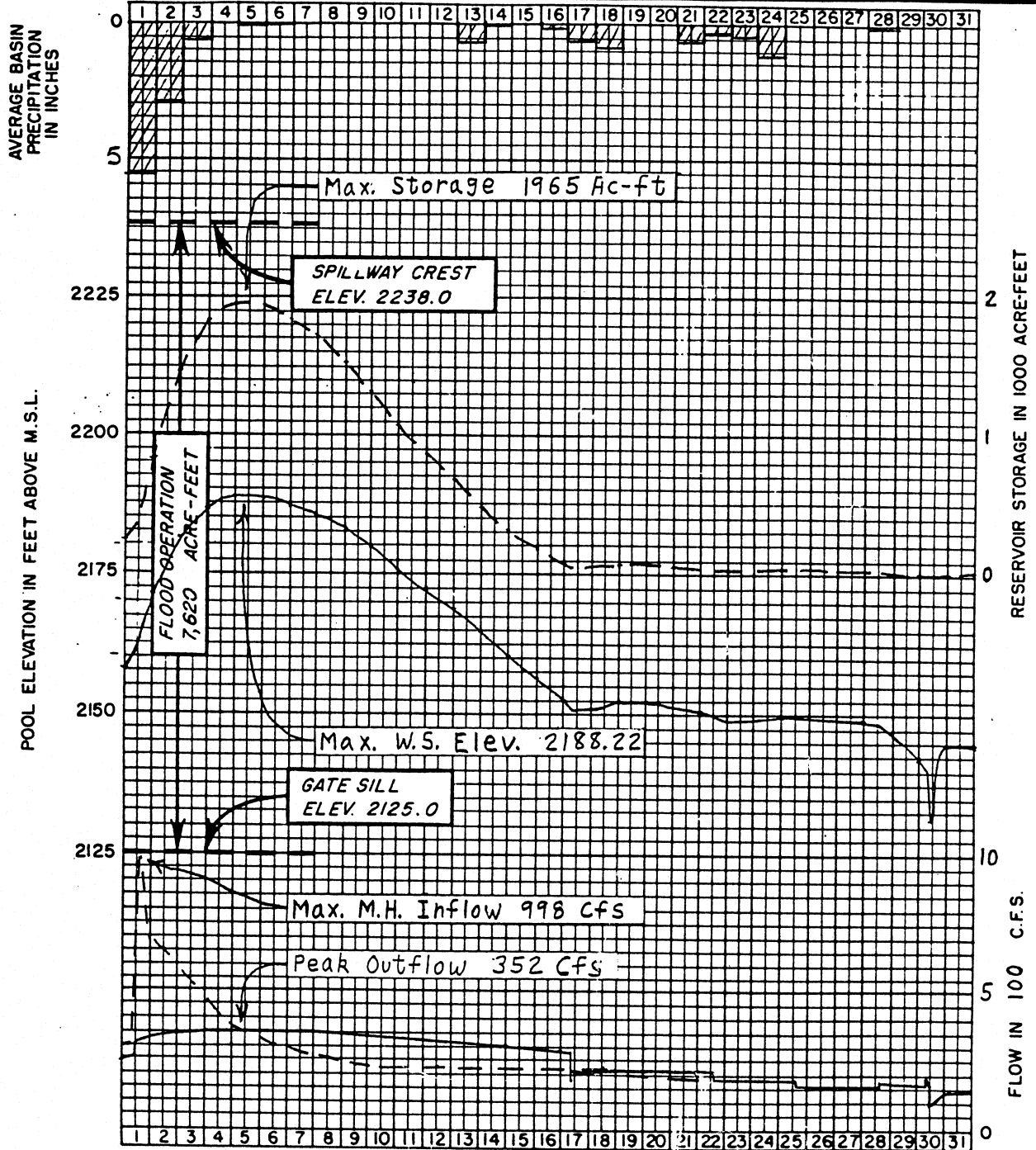
	ELEV	GROSS STORAGE (ACRE-FT.)
Conservation Pool		NONE
Flood Control Pool	2,238	7650
Outlet Capacity at Full Pool 11,800 c. f. s.		

SANTA ANA RIVER BASIN
DRAINAGE AREA 26.7 SQ. MILES

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

OPERATION HYDROGRAPH
13-14 FEBRUARY 1980

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



RESERVOIR STORAGE BASED ON SURVEY DATED SEP 1980

MONTH OF MAR 1983

MONTHLY RESERVOIR OPERATION

SAN ANTONIO FLOOD-CONTROL BASIN

	ELEV.	GROSS STORAGE (ACRE-FT.)
Conservation Pool	NONE	
Flood Control Pool	2,238	7,700
Outlet Capacity at Full Pool 11,800 c. f. s.		

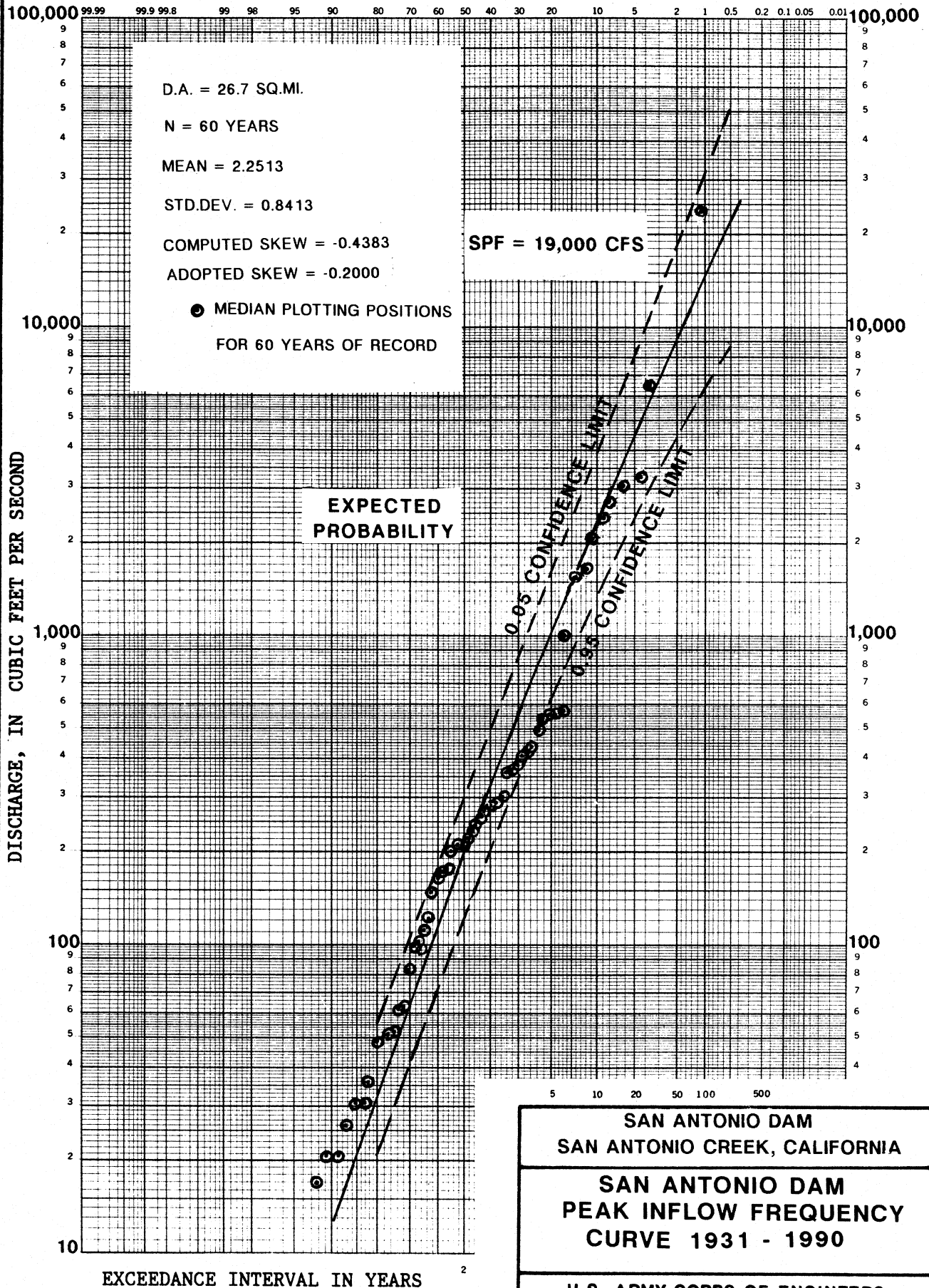
SANTA ANA RIVER BASIN
DRAINAGE AREA 26.7 SQ. MILES

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

OPERATION HYDROGRAPH
1-4 MARCH 1983

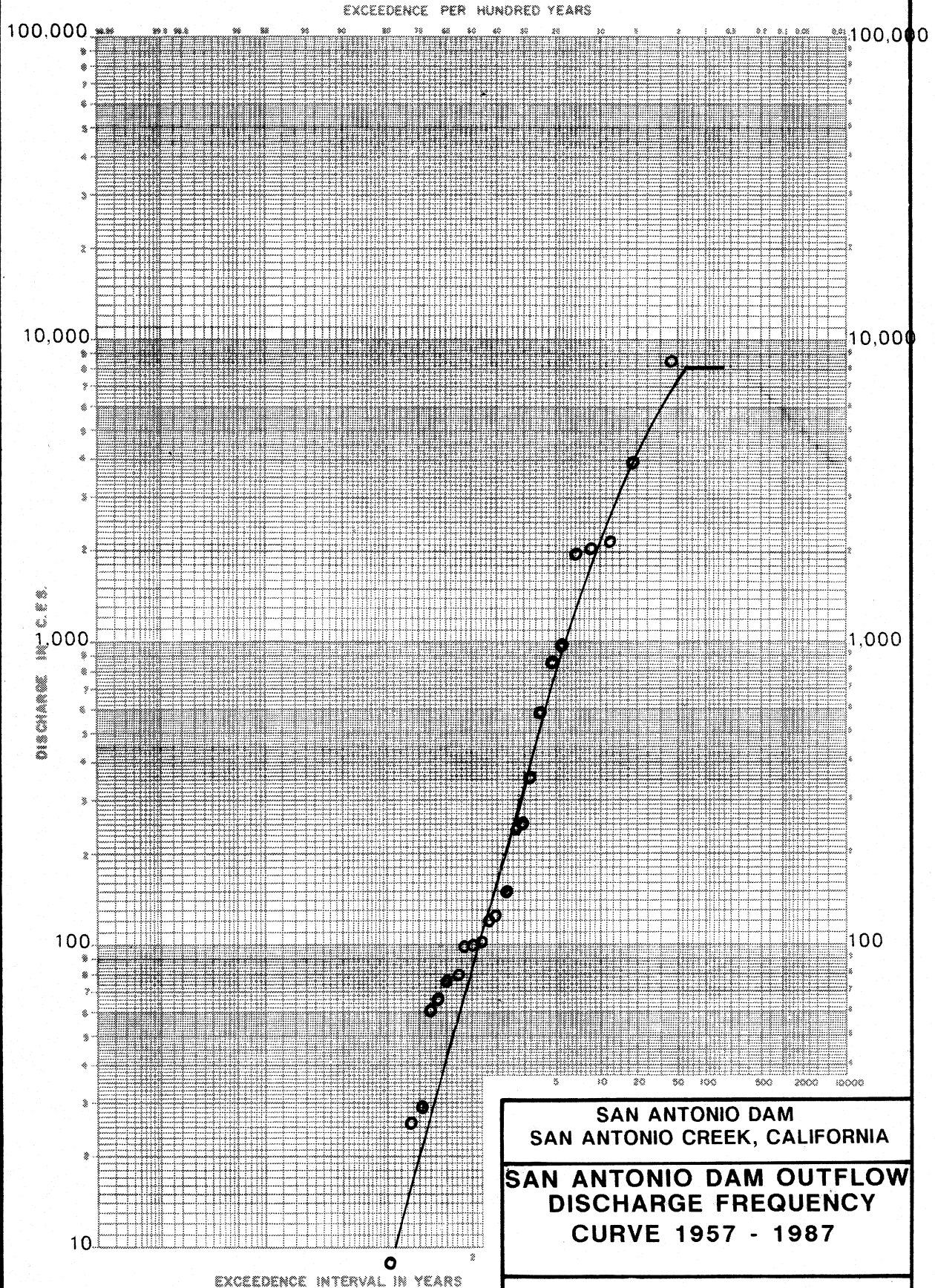
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

EXCEEDANCE FREQUENCY PER HUNDRED YEARS



SOURCE: LAD,USACOE 1991

SAN ANTONIO DAM
 SAN ANTONIO CREEK, CALIFORNIA
 SAN ANTONIO DAM
 PEAK INFLOW FREQUENCY
 CURVE 1931 - 1990
 U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT

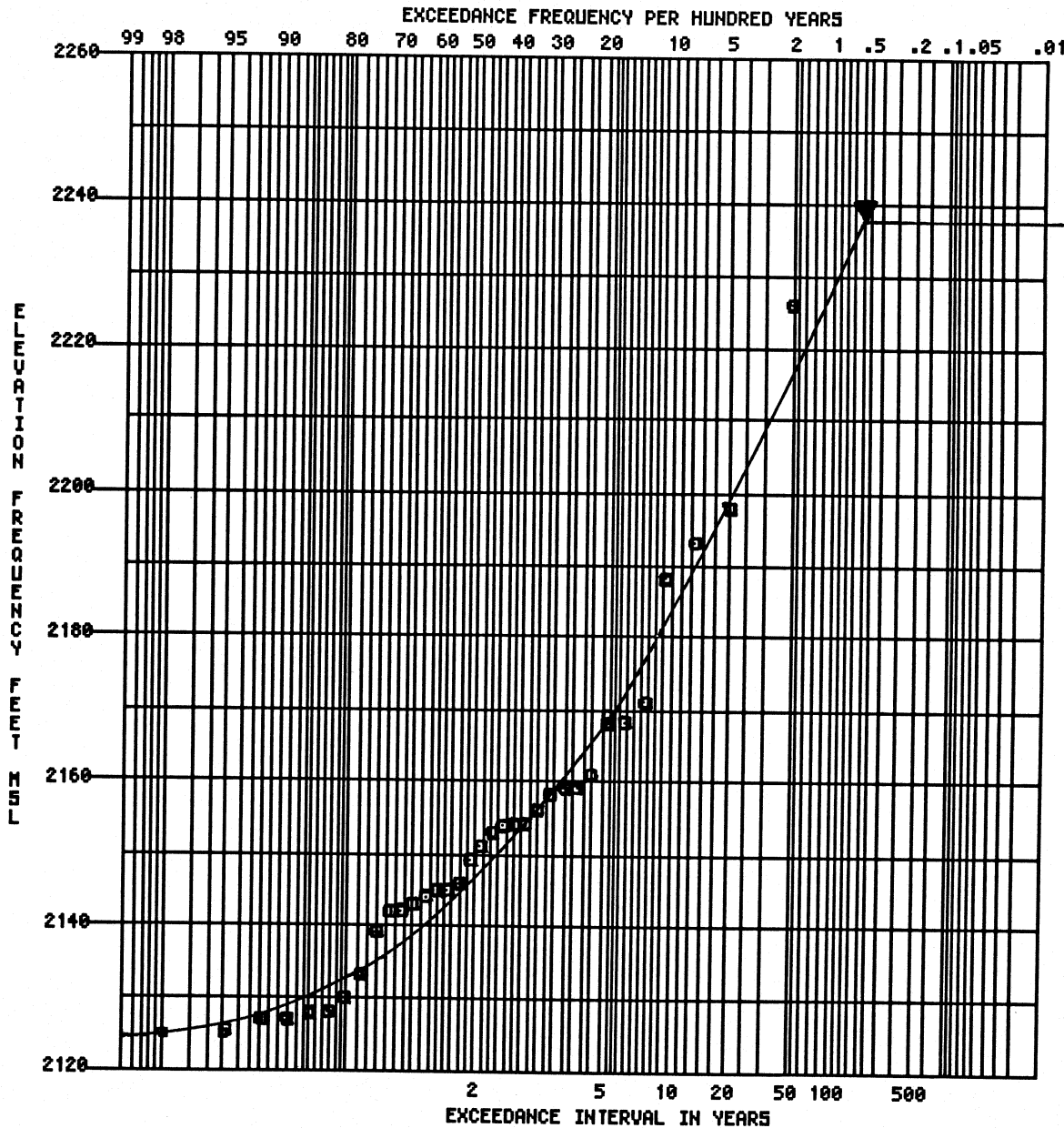


MEDIAN PLOTTING POSITIONS N=31
 SOURCE: LAD, USACOE 1991

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

SAN ANTONIO DAM OUTFLOW
DISCHARGE FREQUENCY
CURVE 1957 - 1987

U S ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



2238 FEET SPILLWAY CREST ELEVATION

□ ANNUAL PEAK ELEVATION - 1956-1990
 MEDIAN PLOTTING POSITIONS N=34

SAN ANTONIO DAM
 SAN ANTONIO CREEK, CALIFORNIA

SAN ANTONIO DAM
 FILLING FREQUENCY CURVE

U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT

SOURCE: LAD, USACOE 1991

**INFLOW, OUTFLOW, AND FILLING FREQUENCY VALUES
FOR SAN ANTONIO RESERVOIR**

RETURN PERIOD (YEARS)	2	5	10	20	50	100	200
PEAK INFLOW (FT ³ /S)	190	950	2150	4150	8500	14000	21700
PEAK OUTFLOW (FT ³ /S)	83	800	2300	4200	7400	8000	8000
PEAK ELEVATION (FT NGVD)	2146	2167	2184	2200	2216	2229	2238

NOTE: These values, representing data verified for San Antonio Reservoir, were obtained from the peak inflow and outflow analysis of plates 8-08 and 8-09, and from the elevation frequency curve of plates 8-10. The curves were drawn as best-fit lines through data points derived from actual data from San Antonio Canyon and San Antonio Reservoir.

SAN ANTONIO DAM
SAN ANTONIO CREEK, CALIFORNIA

INFLOW, OUTFLOW, AND
FILLING
FREQUENCY VALUES

U. S. ARMY ENGINEER DISTRICT
LOS ANGELES, CORPS OF ENGINEERS