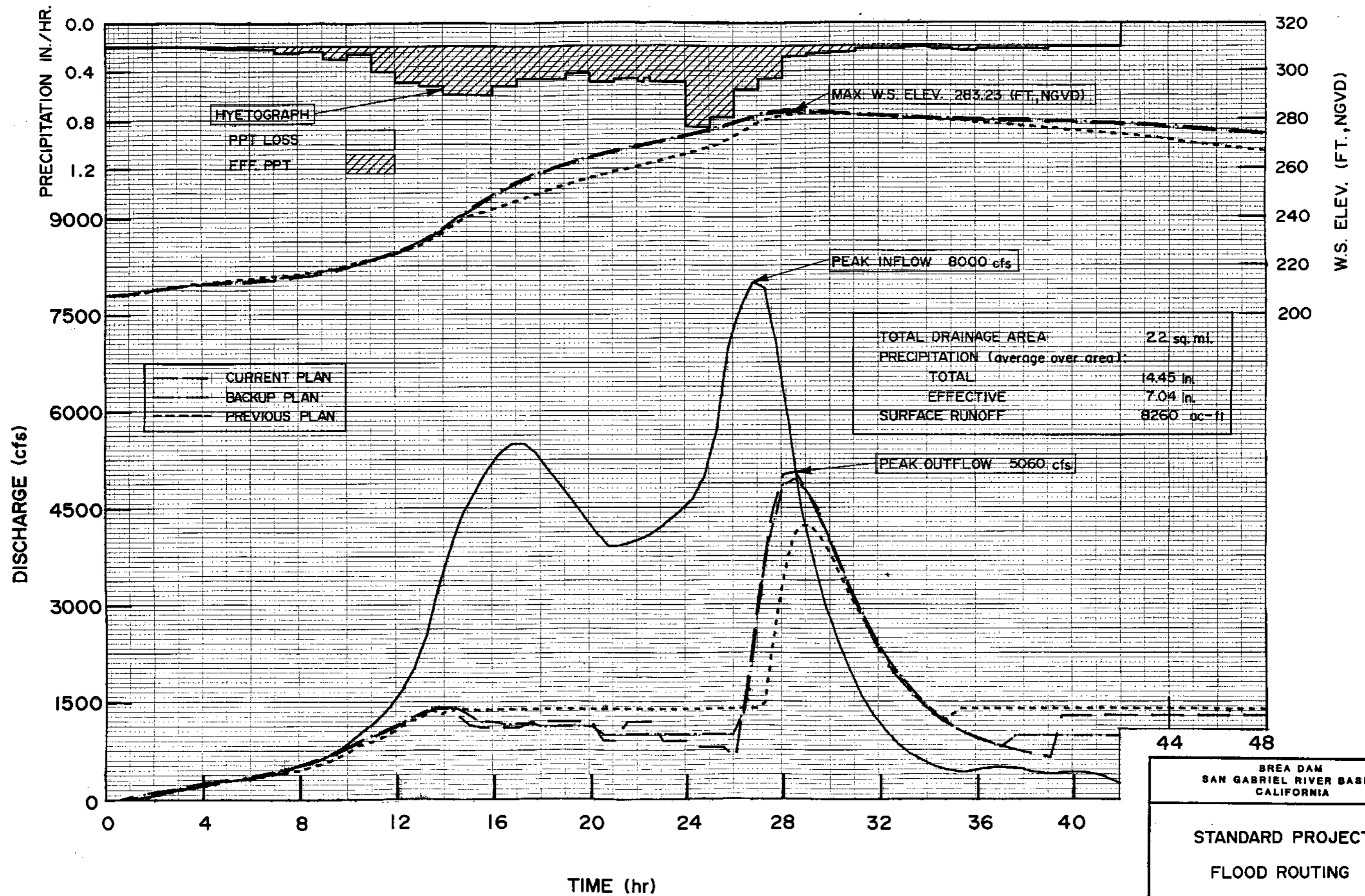


BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

**PROBABLE MAXIMUM
FLOOD ROUTING**

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

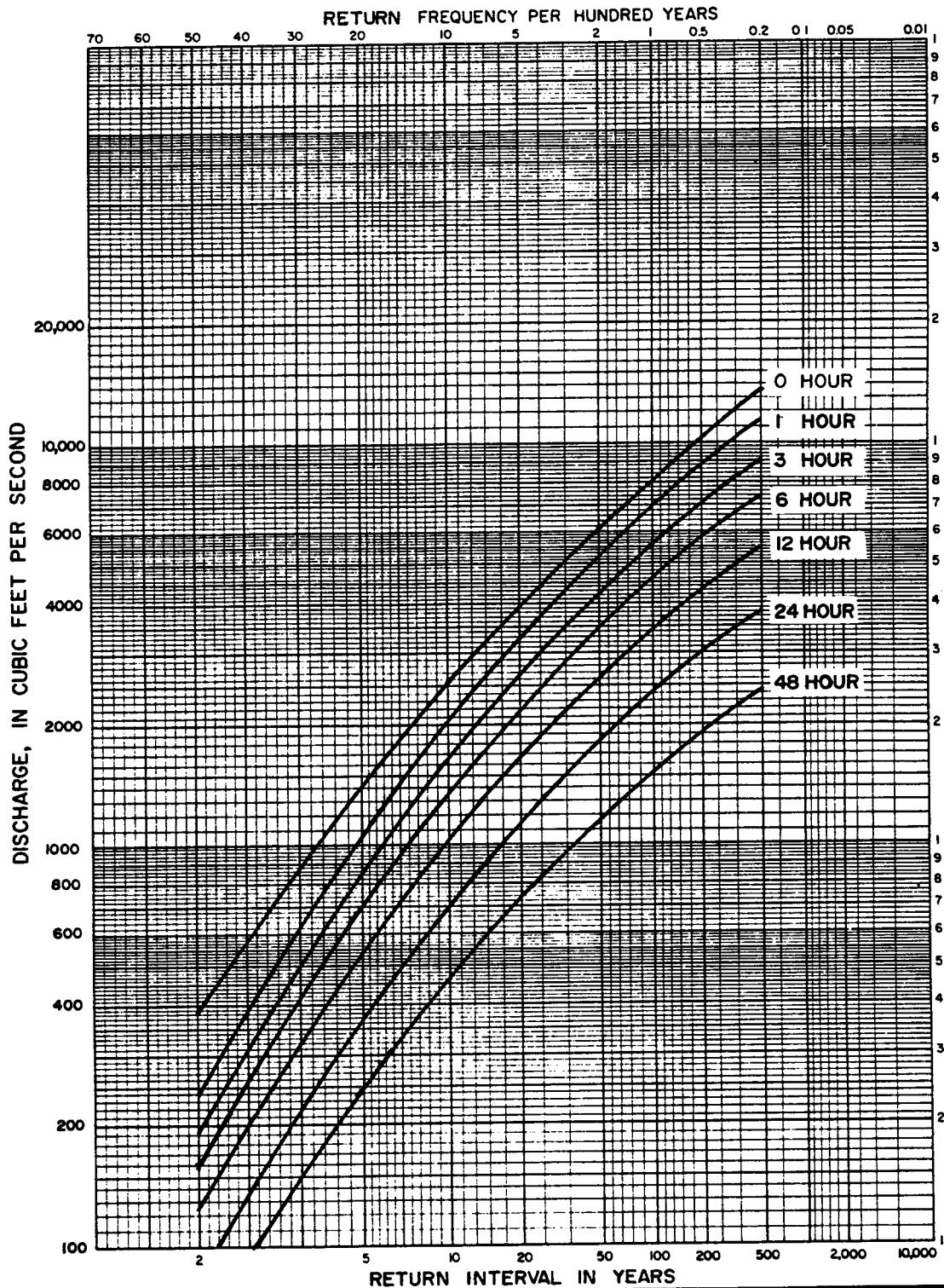


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

STANDARD PROJECT
FLOOD ROUTING

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



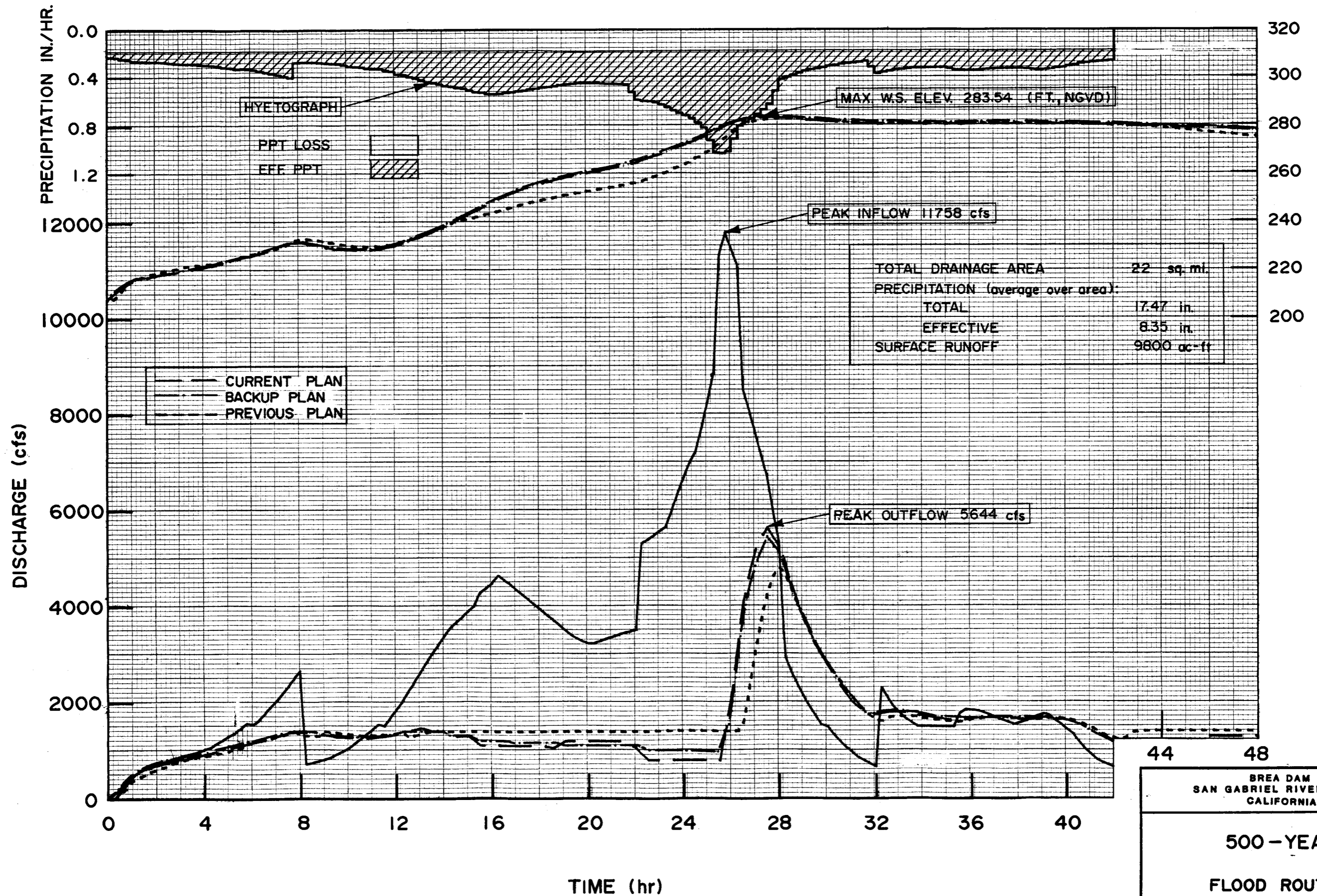
DA = 22 Sq. Mi.
 INSTANTANEOUS : $G = -0.65$, $N = 54$
 OTHERS : $G = -0.80$, $N = 44$
 MEDIAN PLOTTING POSITIONS

NOTE: FREQUENCY VALUES FROM THE
 CURVES OF THIS PLATE ARE
 LISTED IN TABLE 8-01

BREA DAM
 SAN GABRIEL RIVER BASIN
 CALIFORNIA

INFLOW FREQUENCY CURVES

U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT

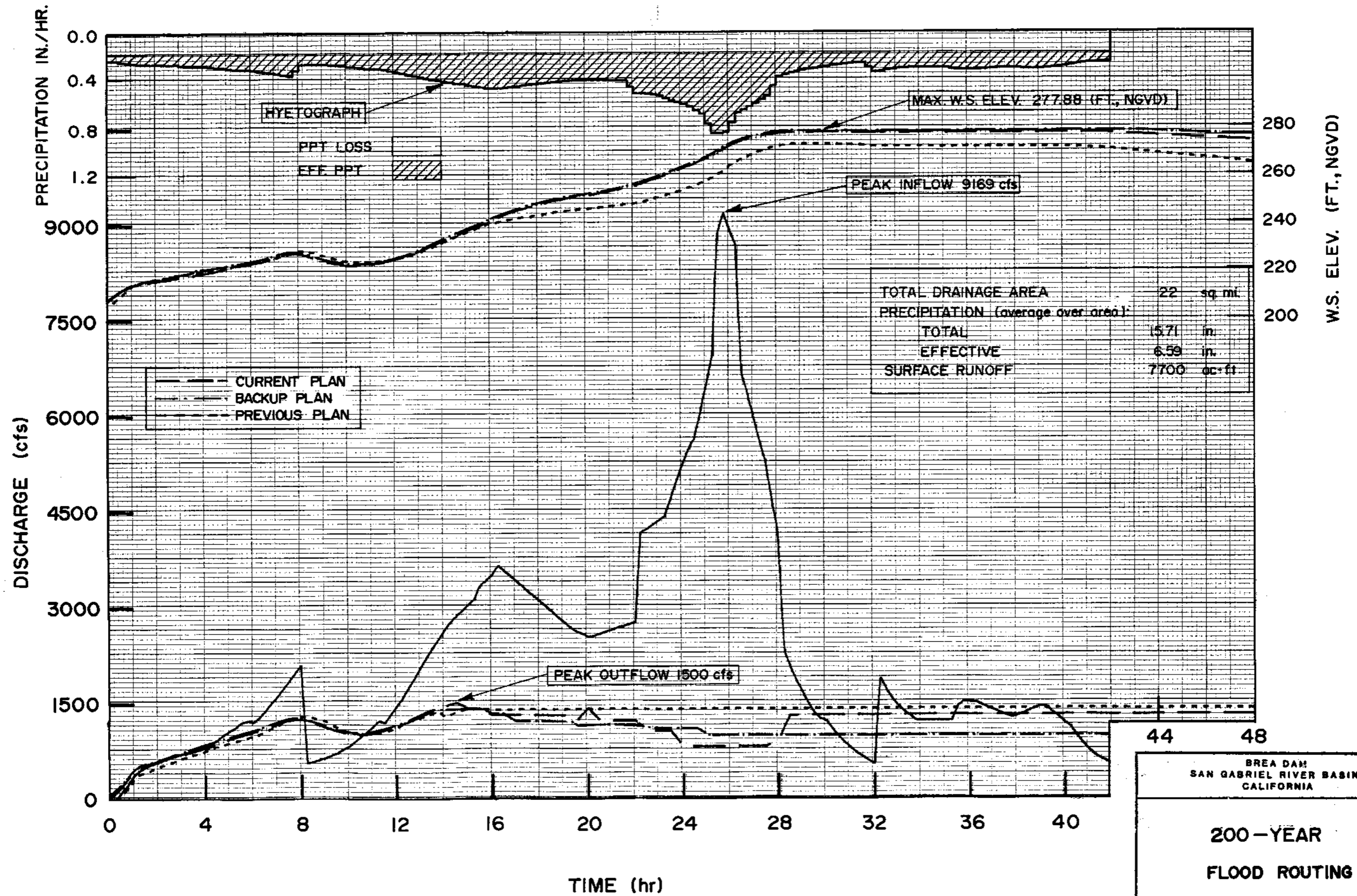


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

500-YEAR
FLOOD ROUTING

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

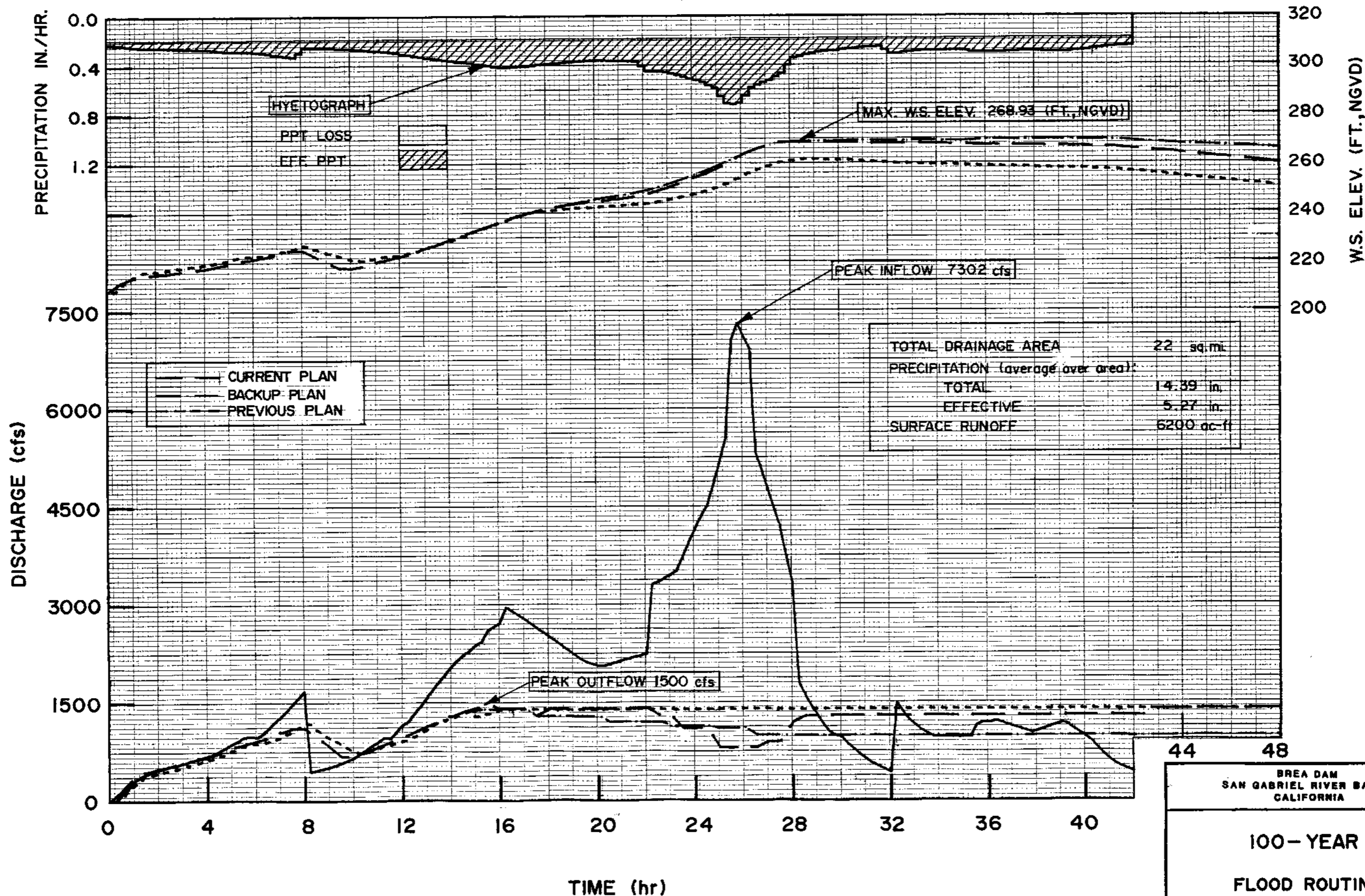


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

**200-YEAR
FLOOD ROUTING**

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

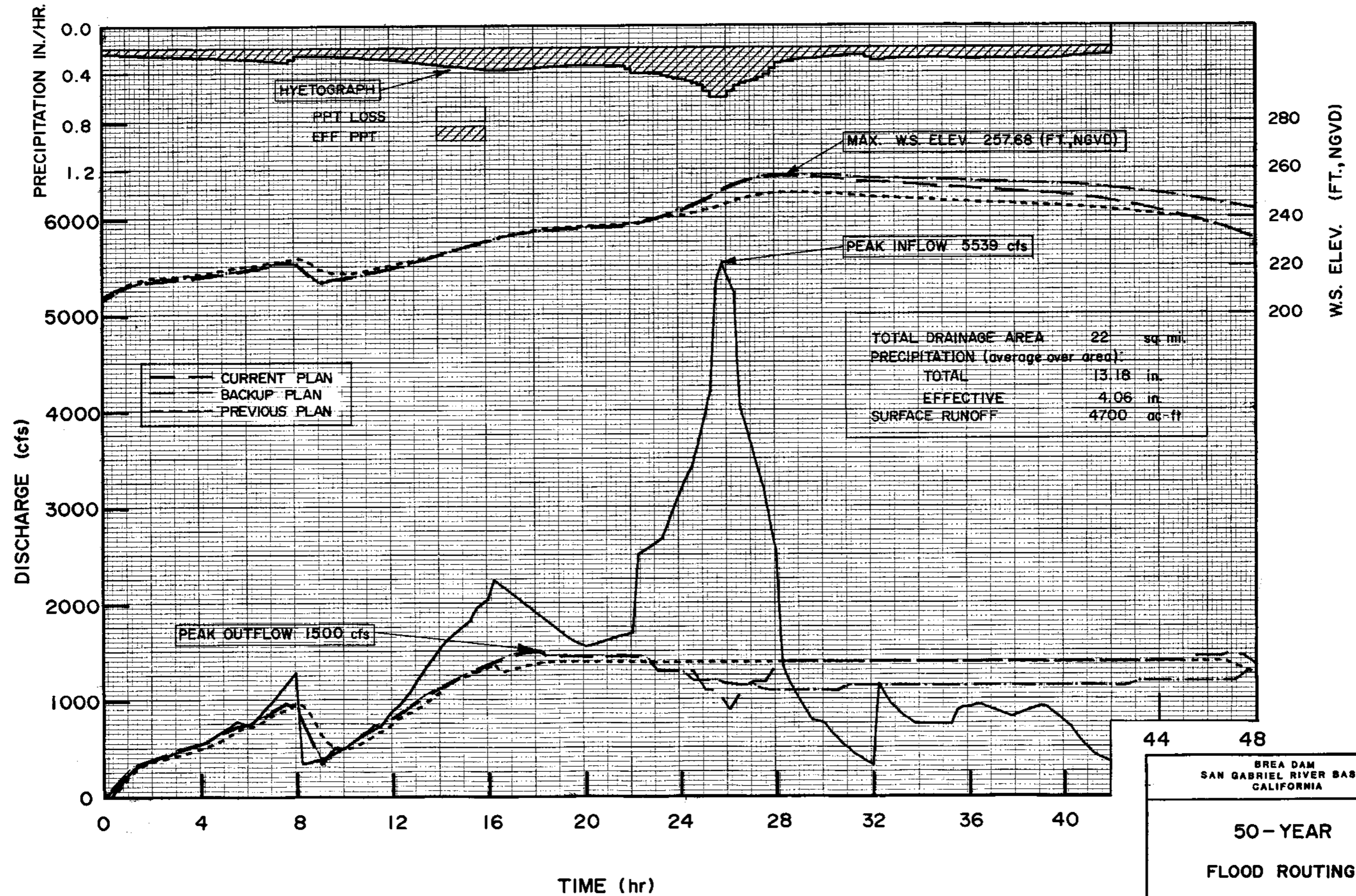


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

100-YEAR
FLOOD ROUTING

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

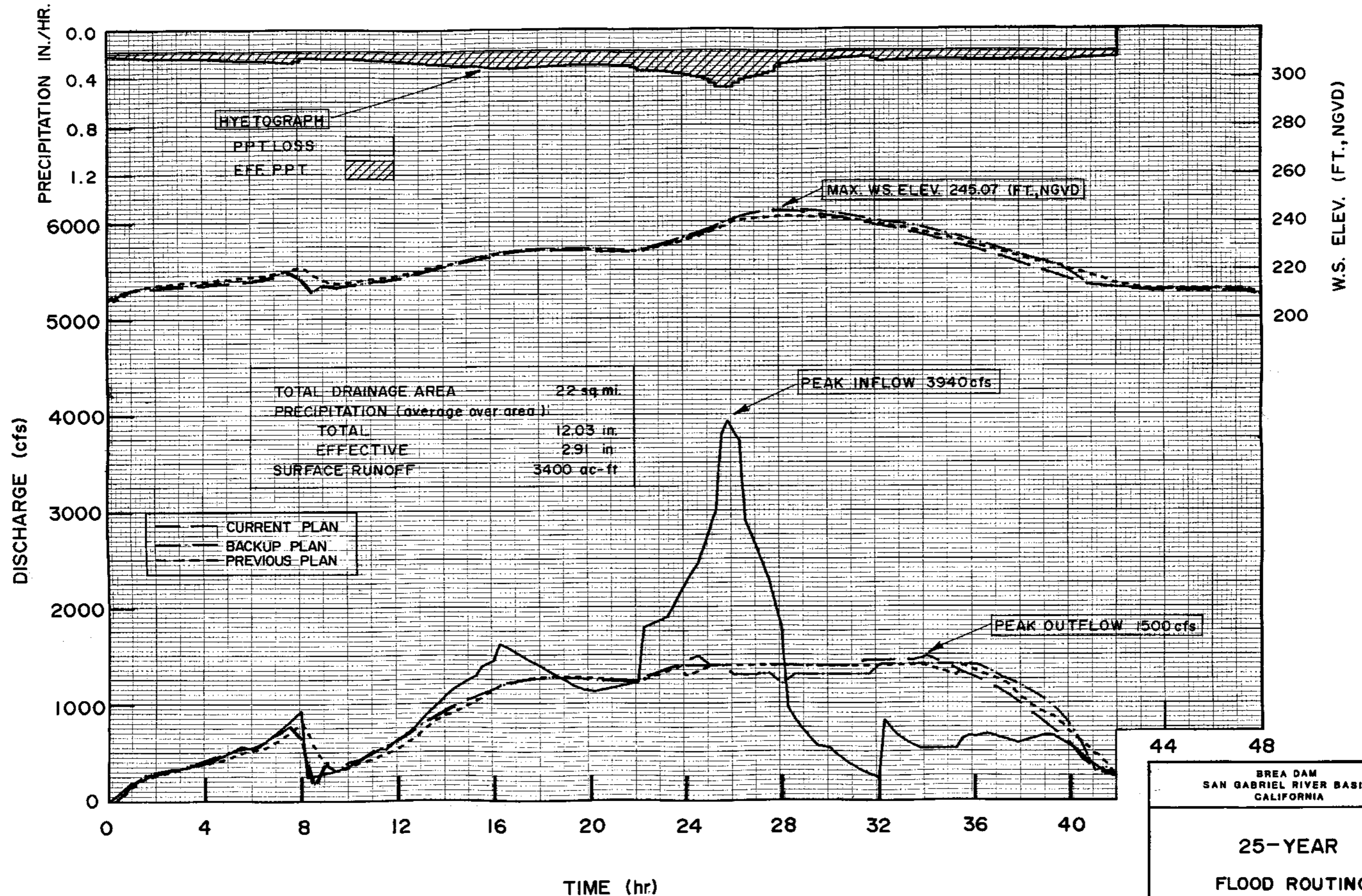


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

50-YEAR
FLOOD ROUTING

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

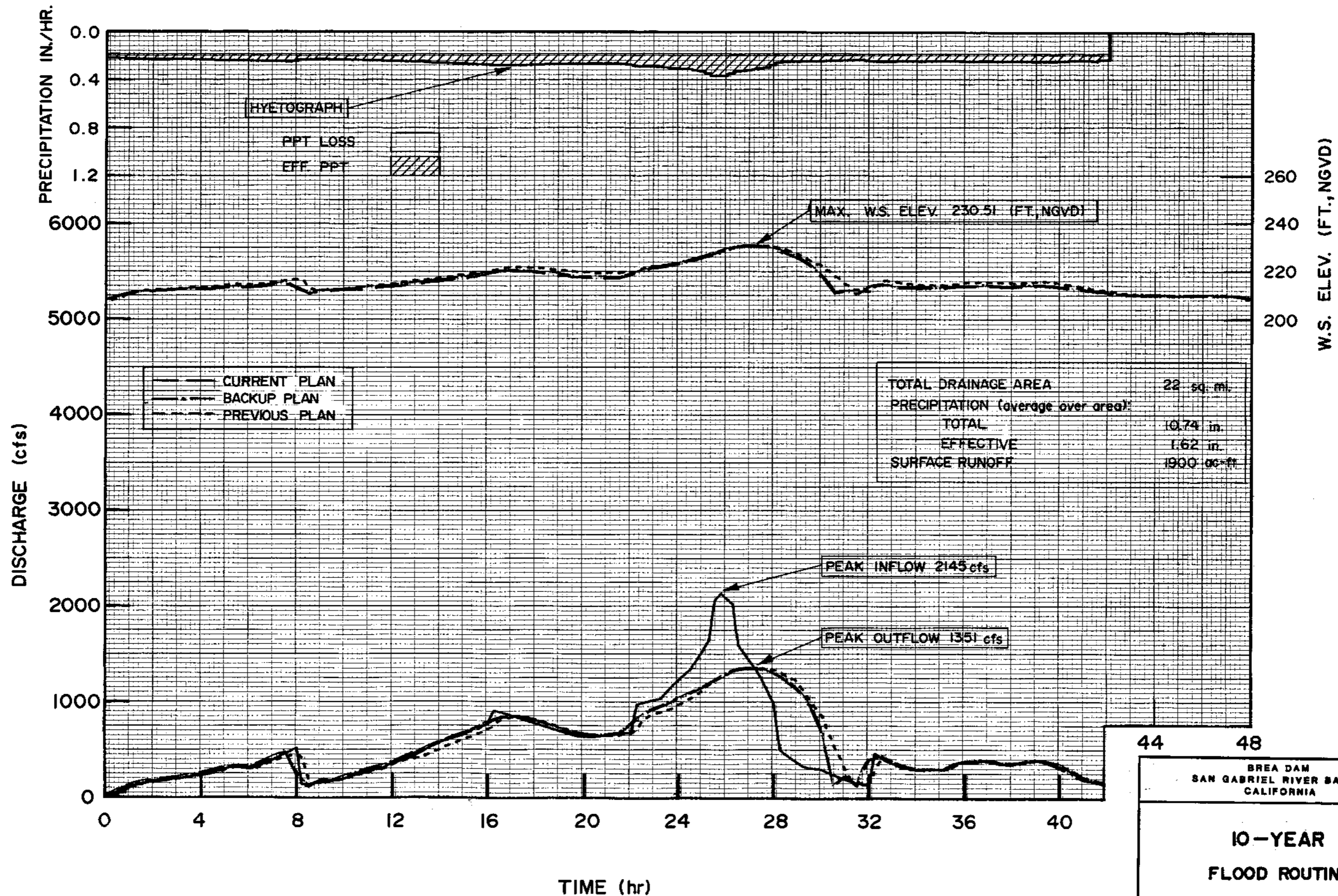


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

25-YEAR
FLOOD ROUTING

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

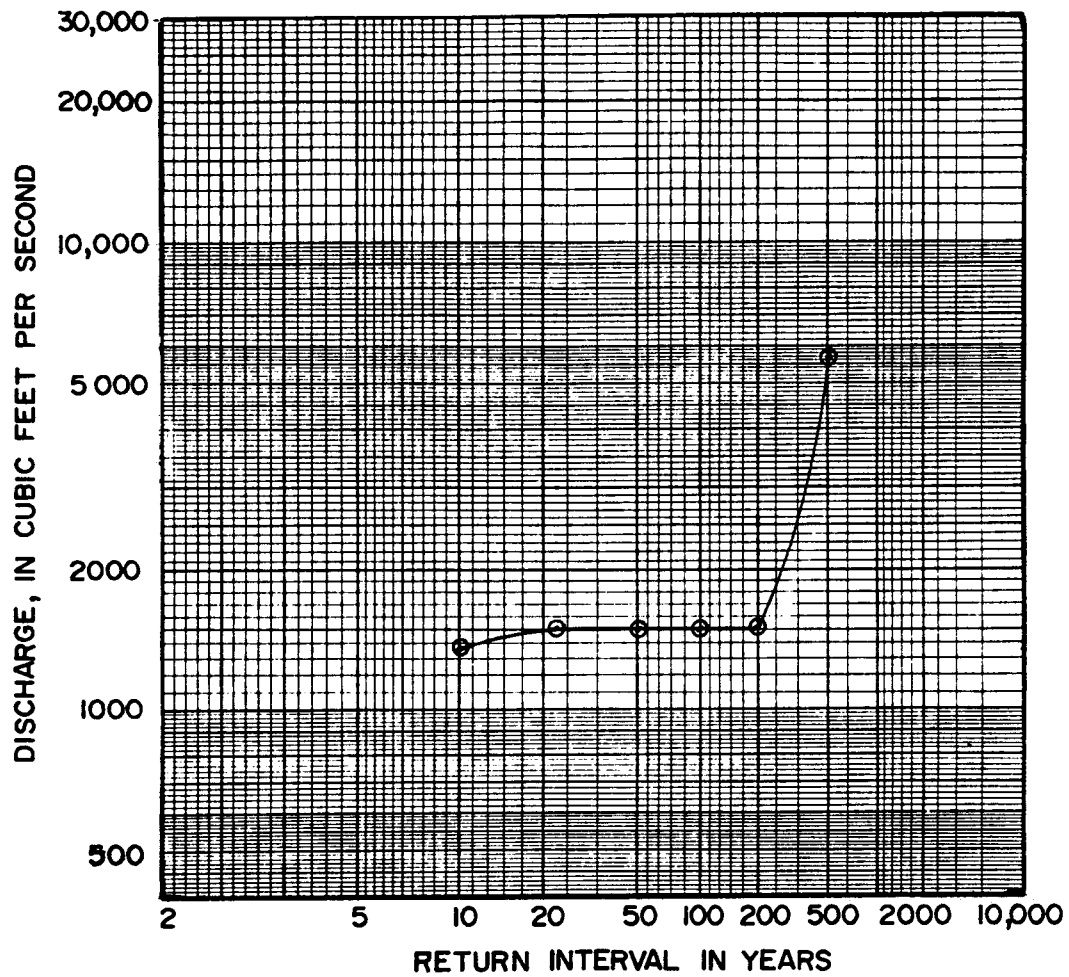


44 48

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

**10-YEAR
FLOOD ROUTING**

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

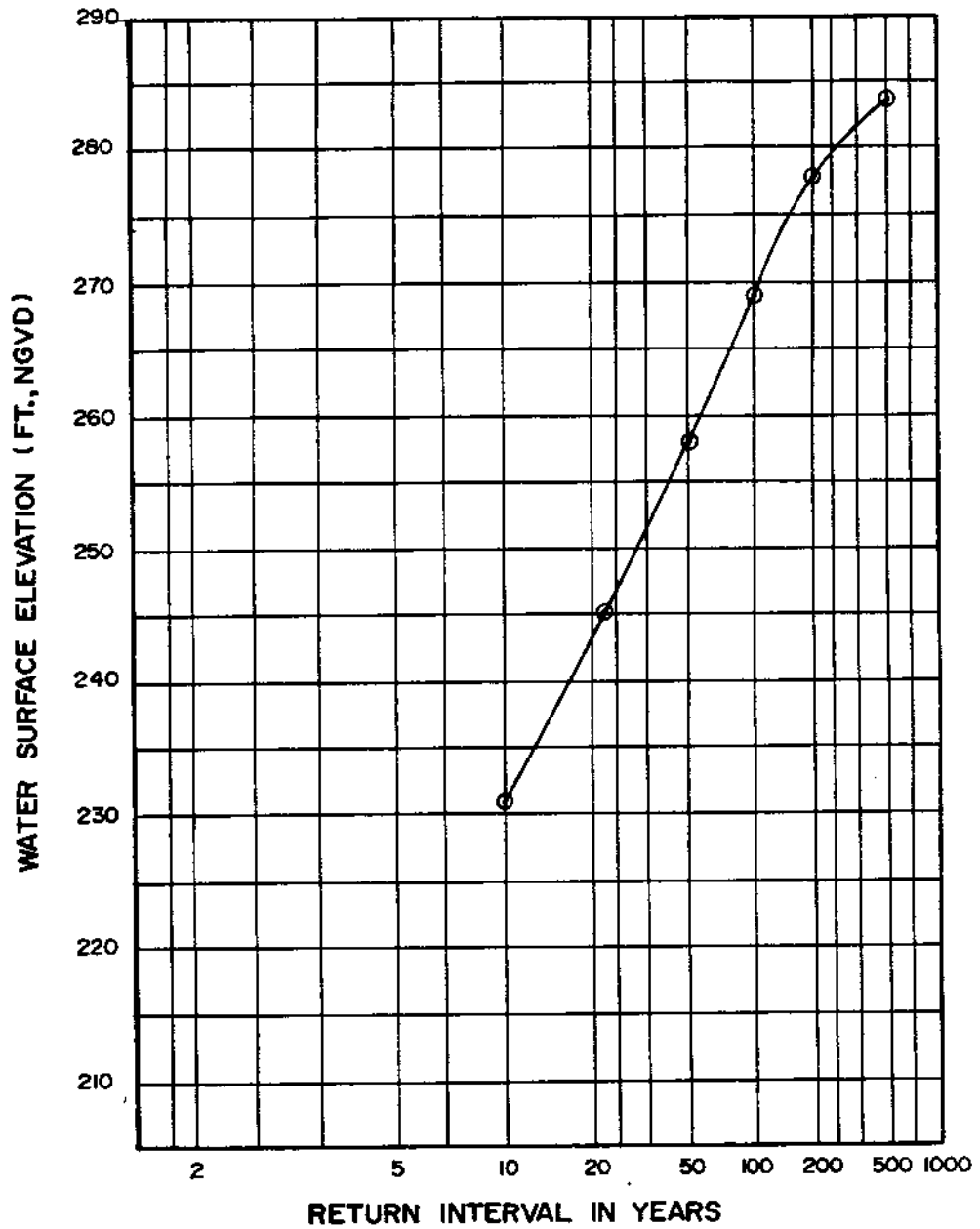


BREA DAM
 SAN GABRIEL RIVER BASIN
 CALIFORNIA

**OUTFLOW FREQUENCY
 CURVE**

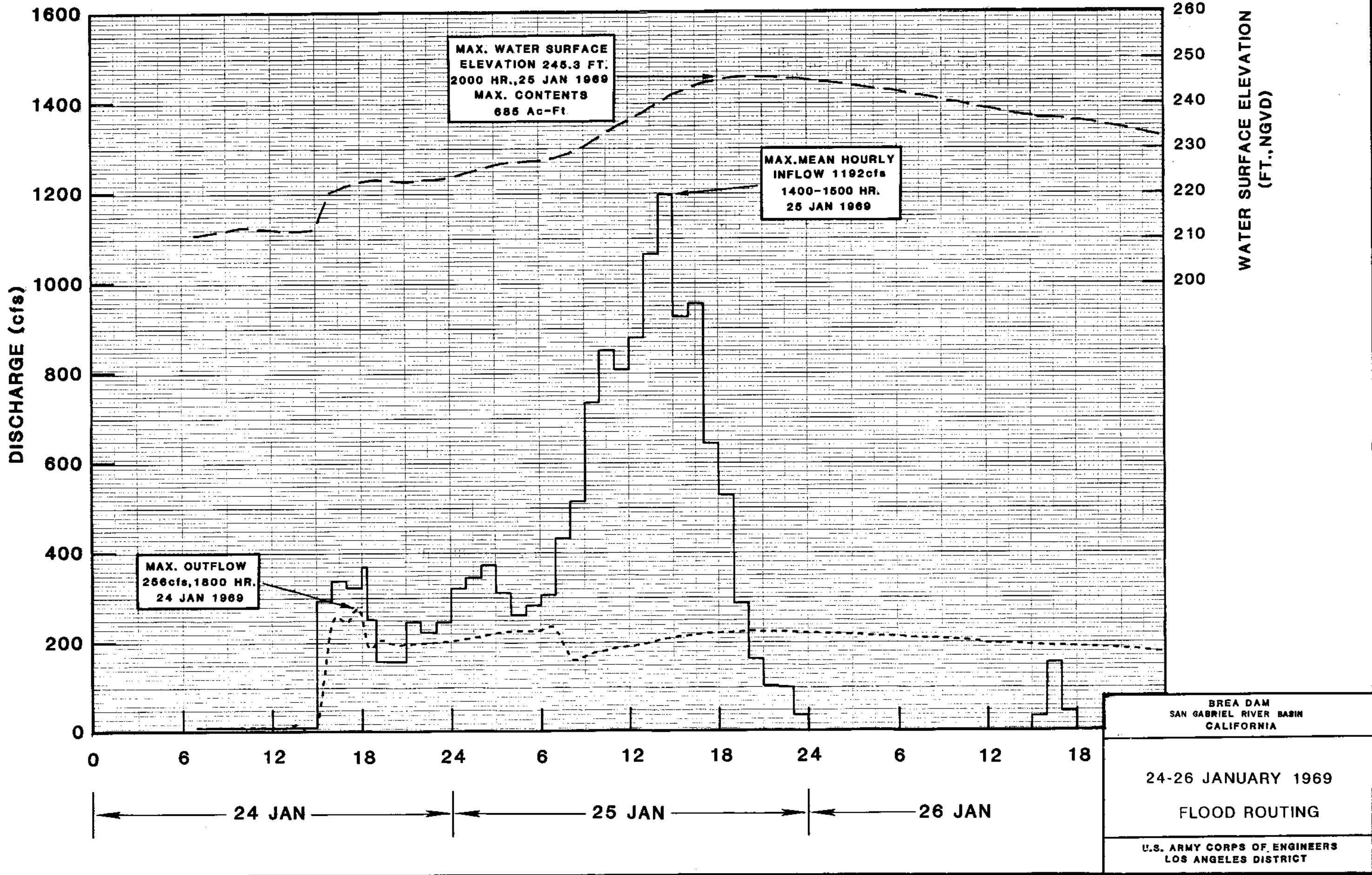
U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT

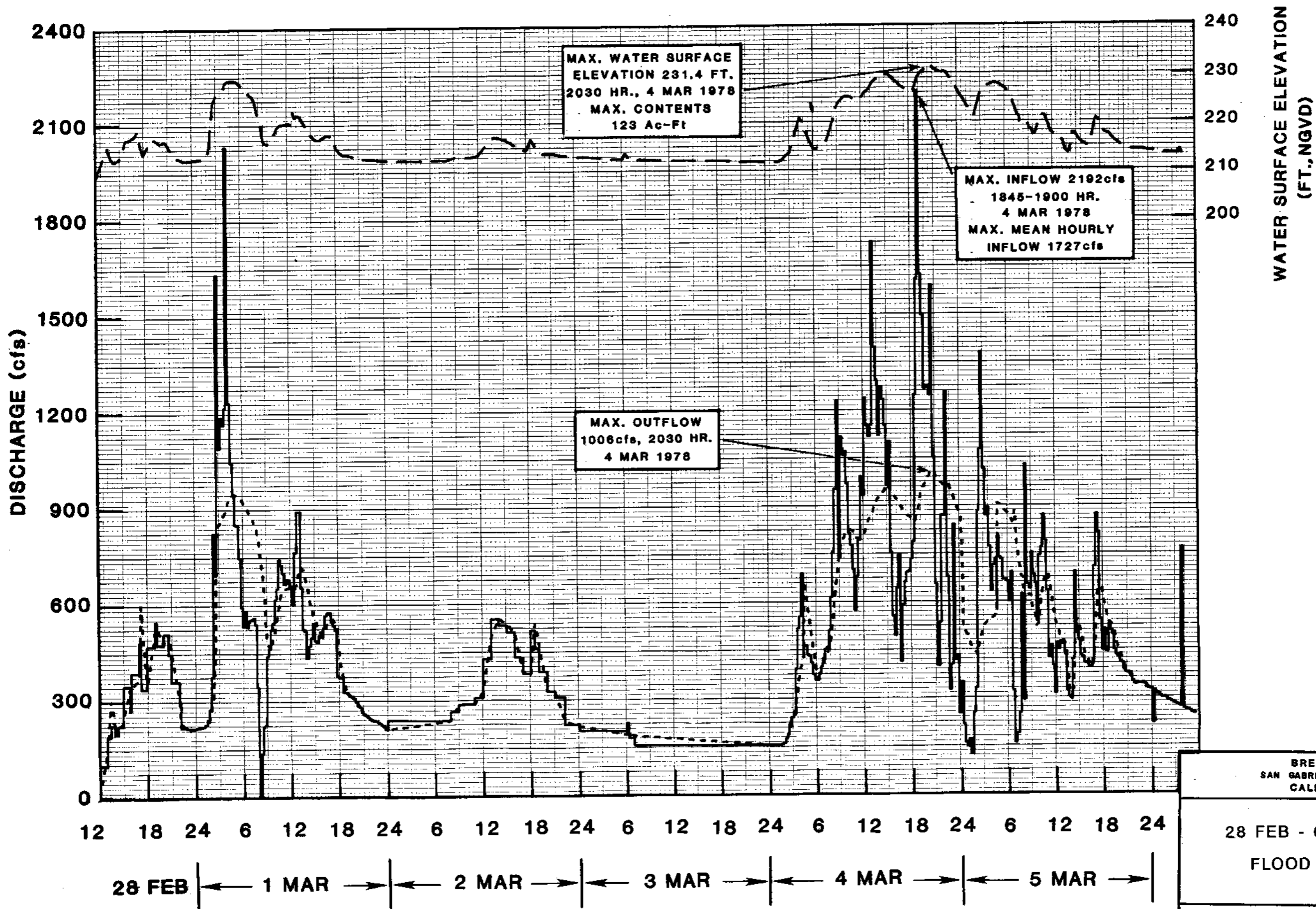
NOTE: FREQUENCY VALUES PLOTTED IN THIS PLATE
 ARE LISTED IN TABLE 8-02



BREA DAM SAN GABRIEL RIVER BASIN CALIFORNIA
ELEVATION FREQUENCY CURVE
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT

NOTE: FREQUENCY VALUES PLOTTED IN THIS
PLATE ARE LISTED IN TABLE 8-02



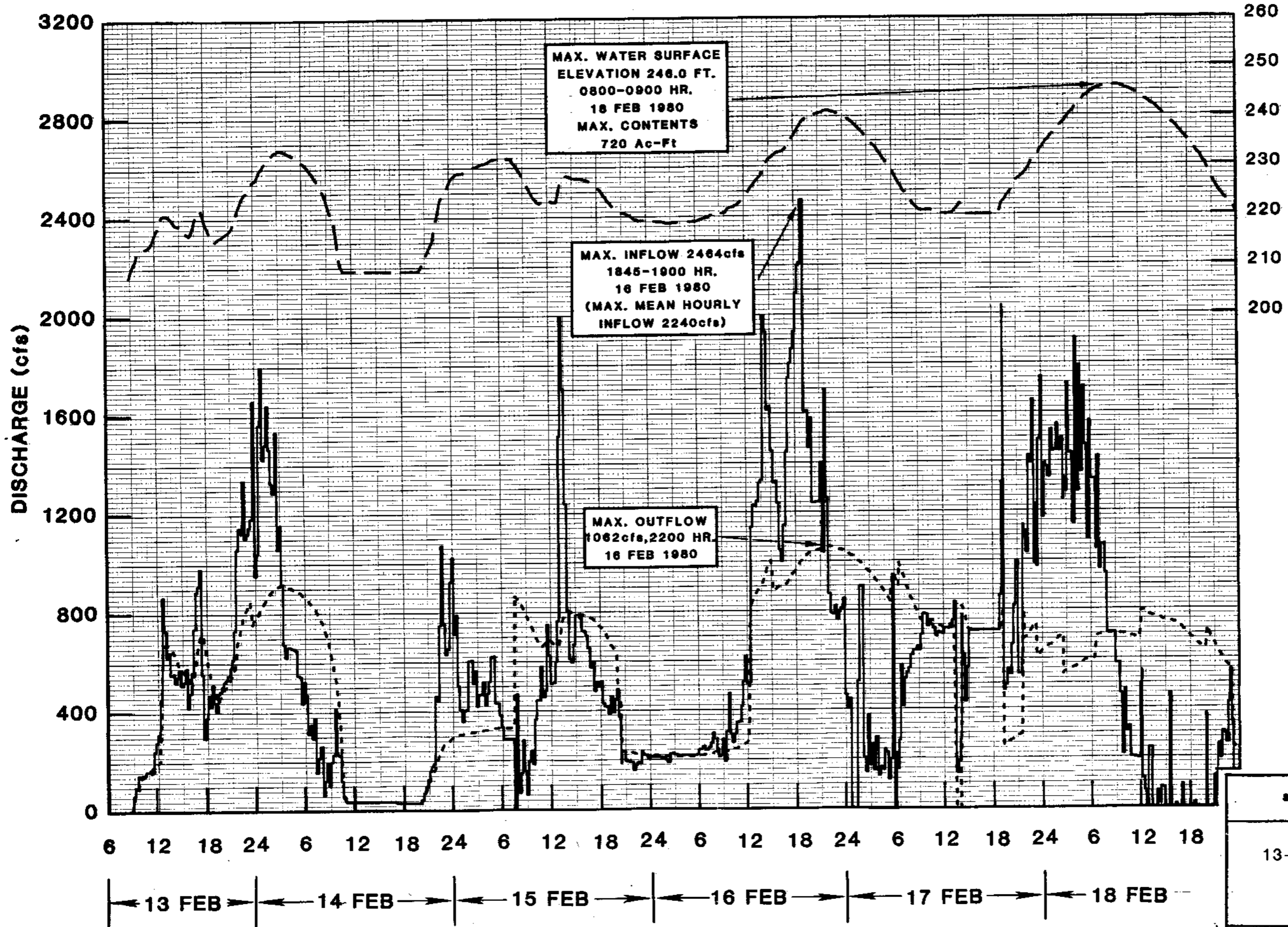


BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

28 FEB - 6 MAR 1978

FLOOD ROUTING

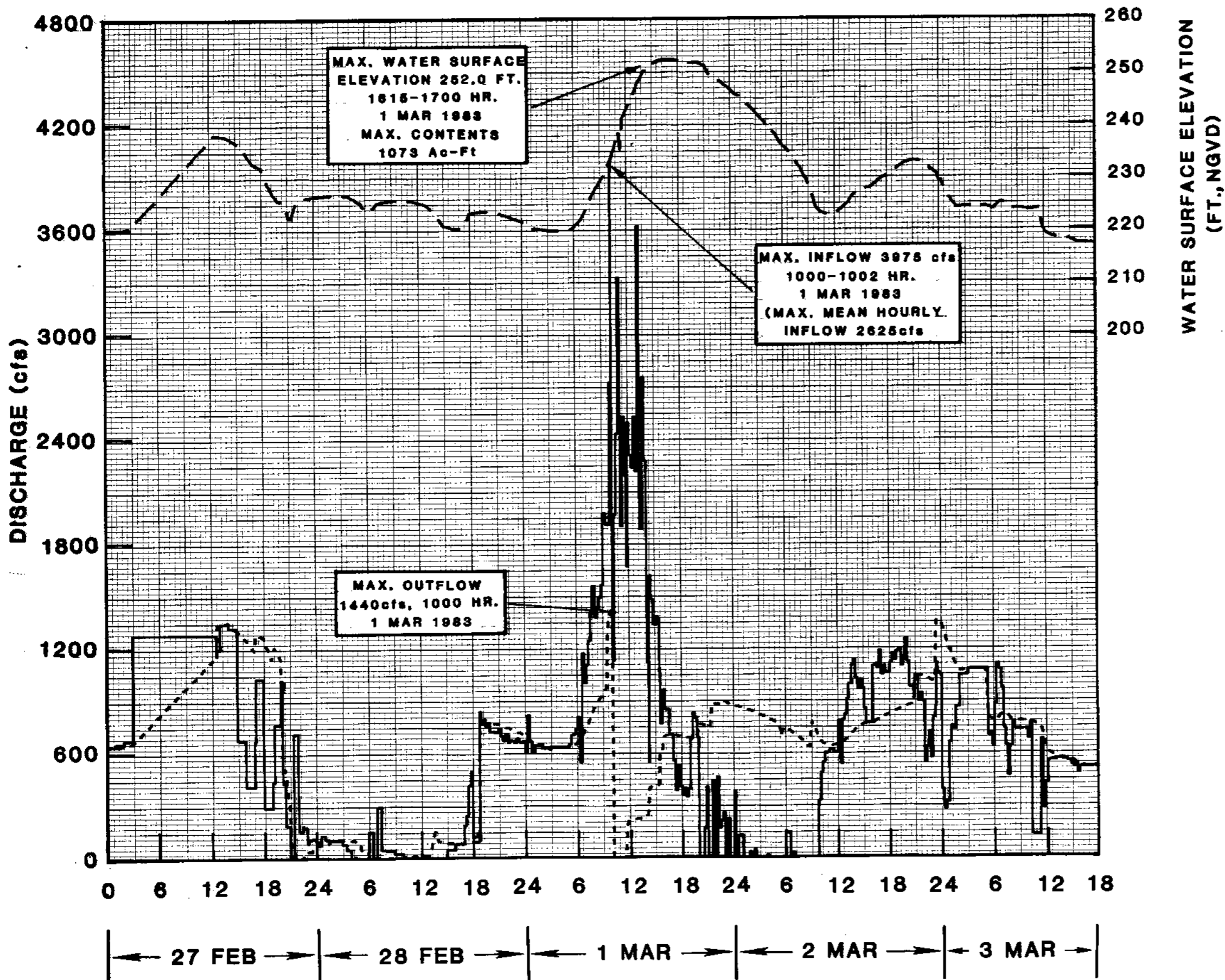
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

13-18 FEBRUARY 1980
FLOOD ROUTING

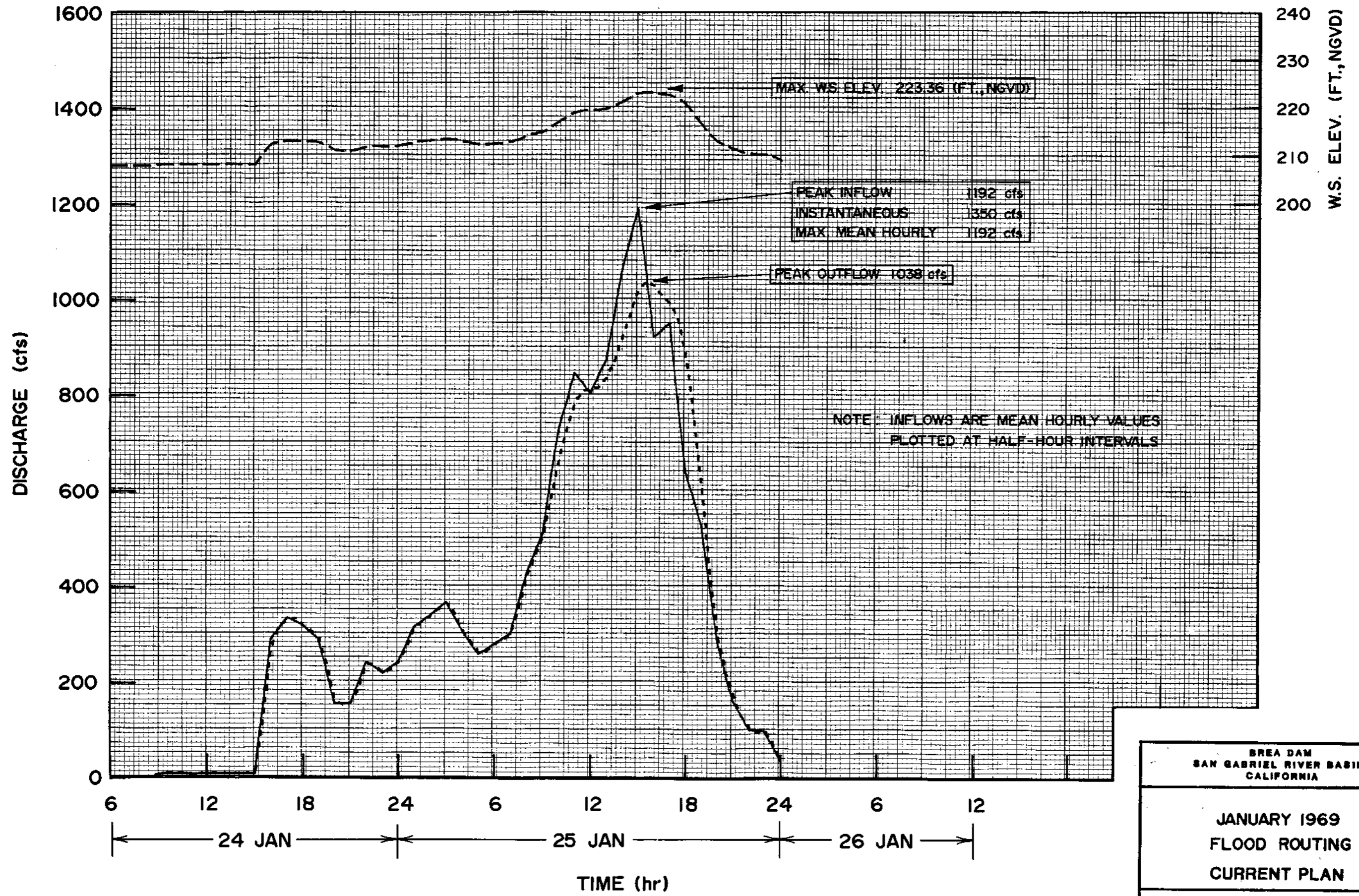
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



BREA DAM
 SAN GABRIEL RIVER BASIN
 CALIFORNIA

27 FEB - 3 MAR 1983
 FLOOD ROUTING

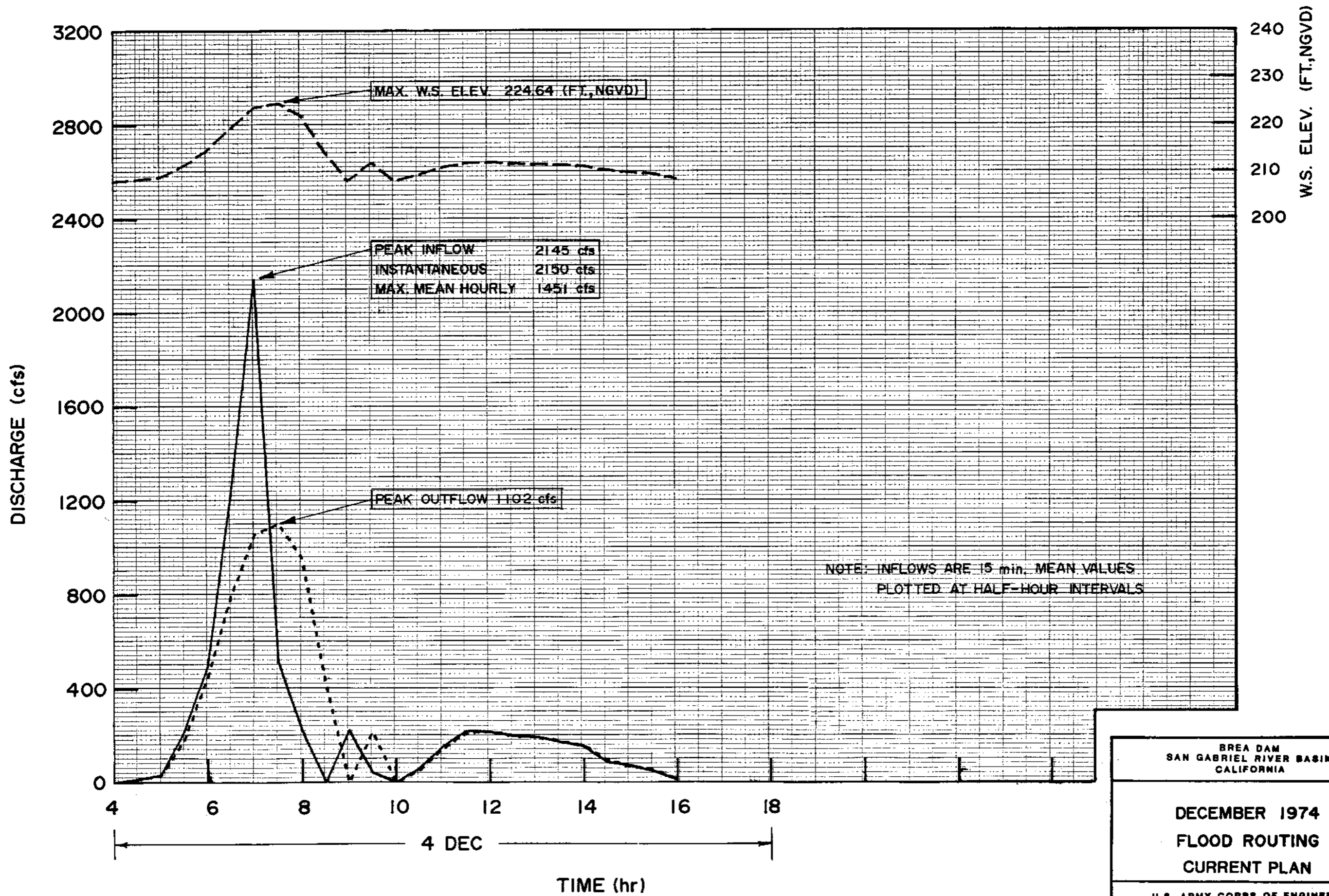
U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT

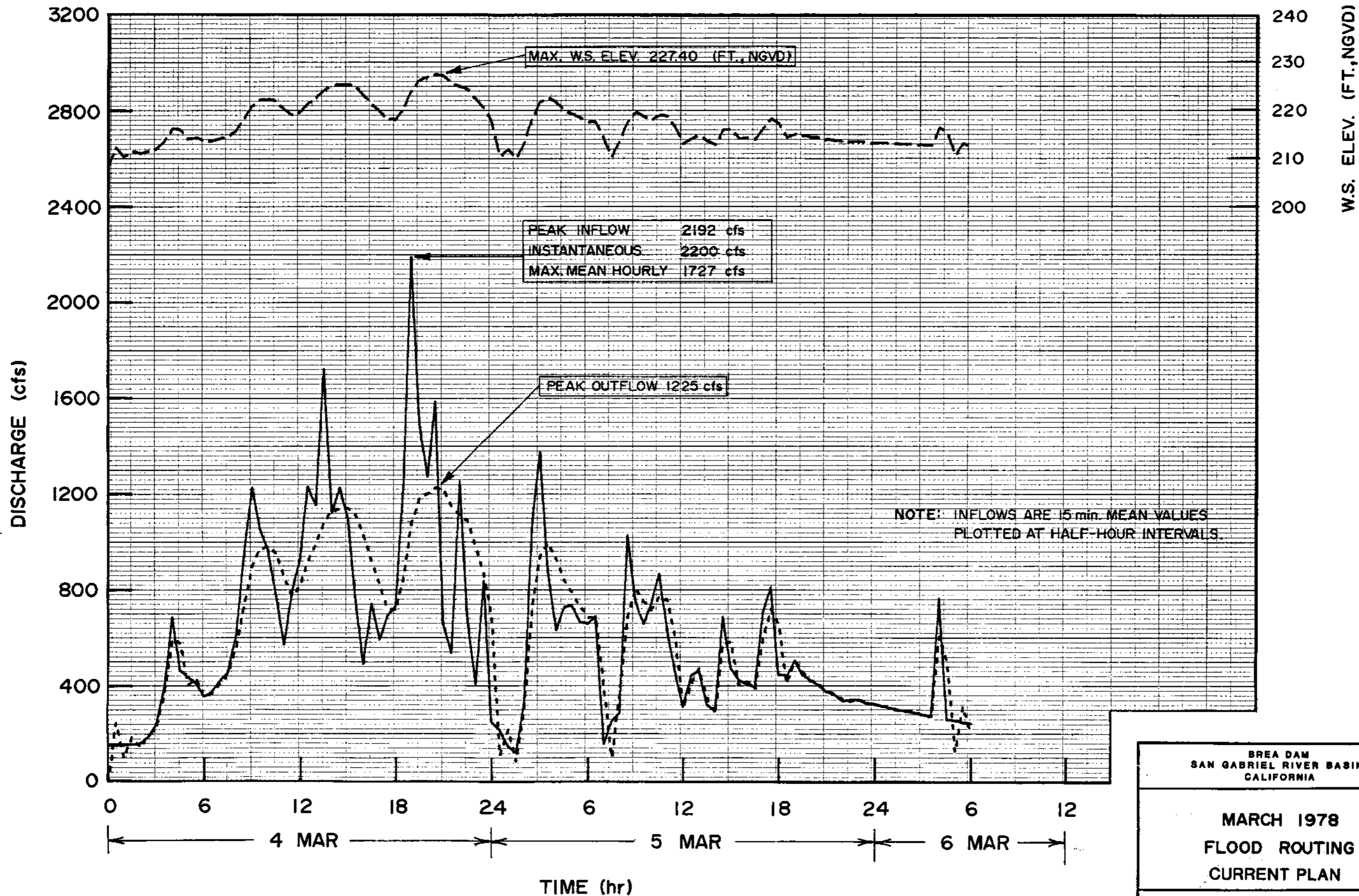


BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

JANUARY 1969
FLOOD ROUTING
CURRENT PLAN

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

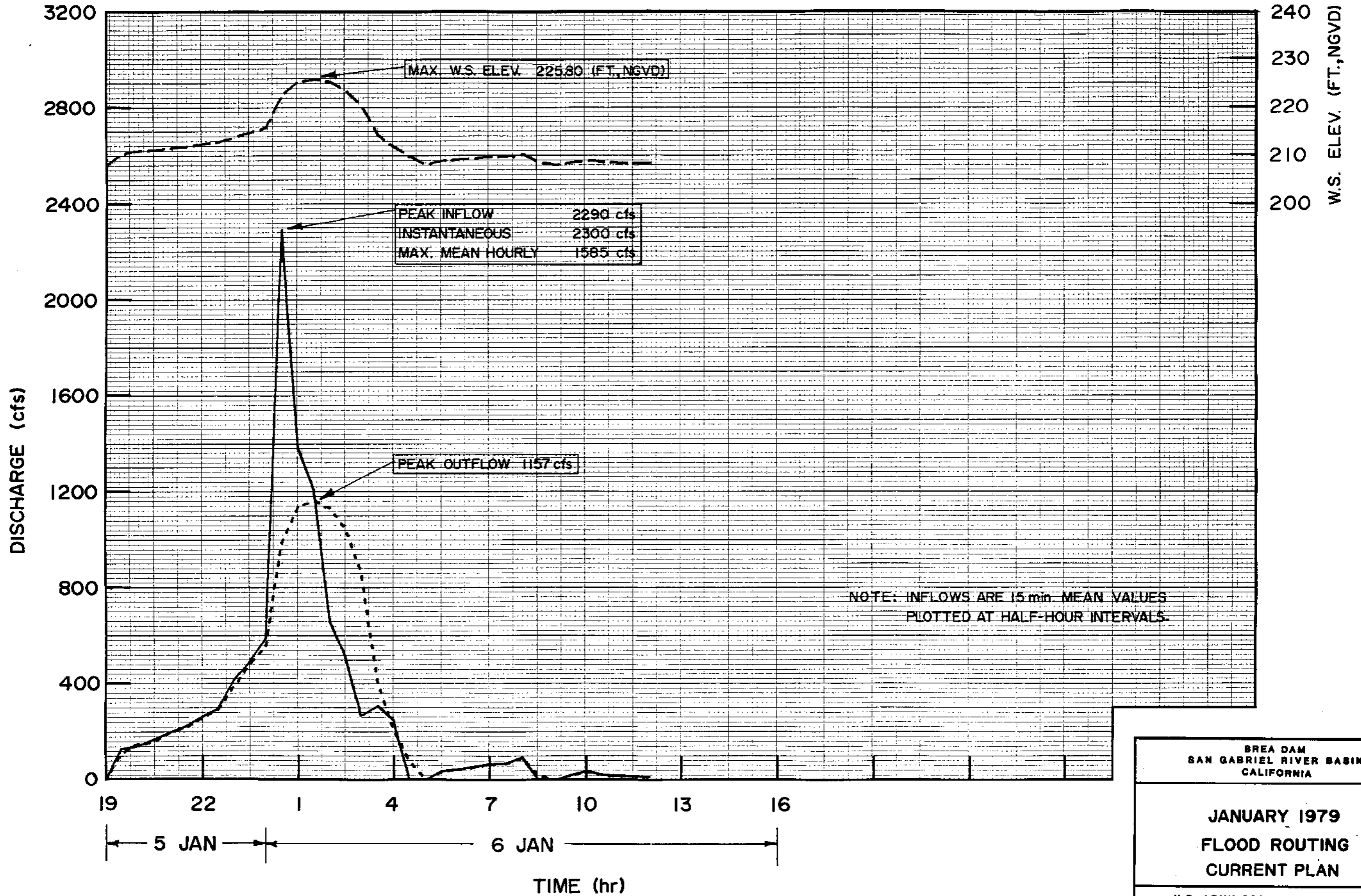




BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

MARCH 1978
FLOOD ROUTING
CURRENT PLAN

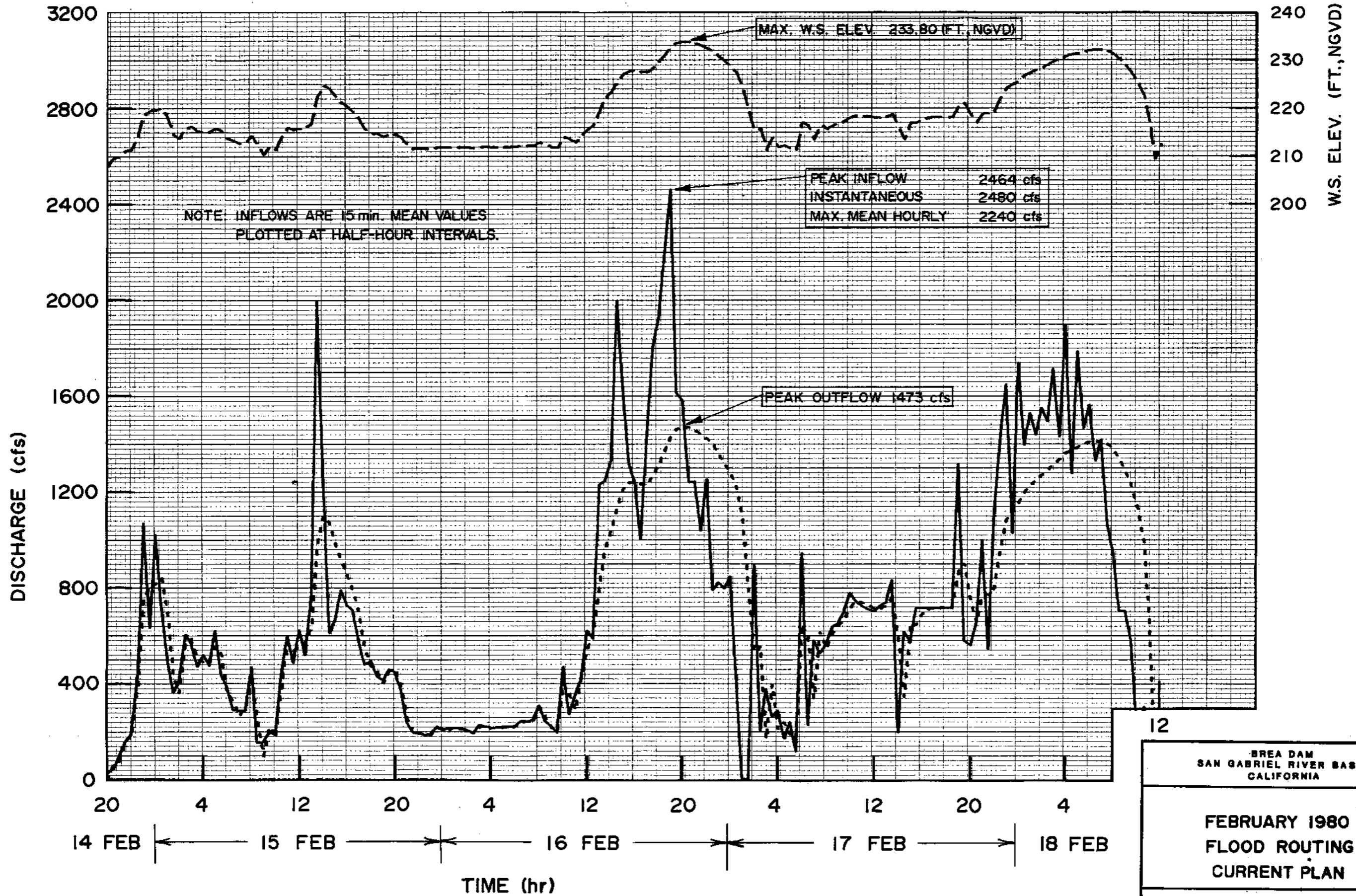
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

JANUARY 1979
FLOOD ROUTING
CURRENT PLAN

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

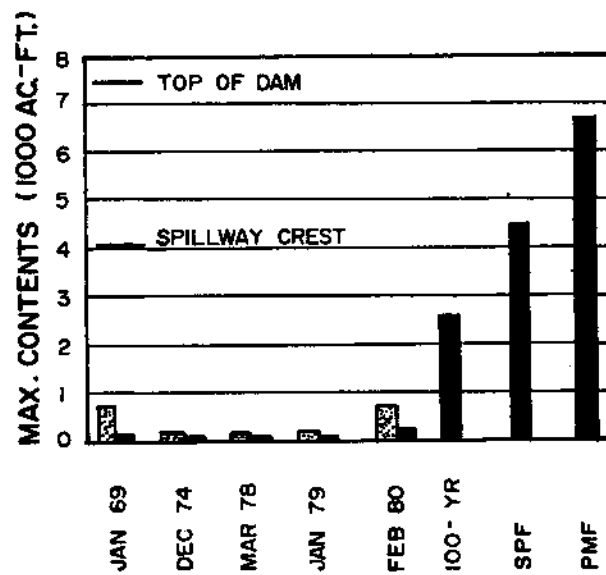
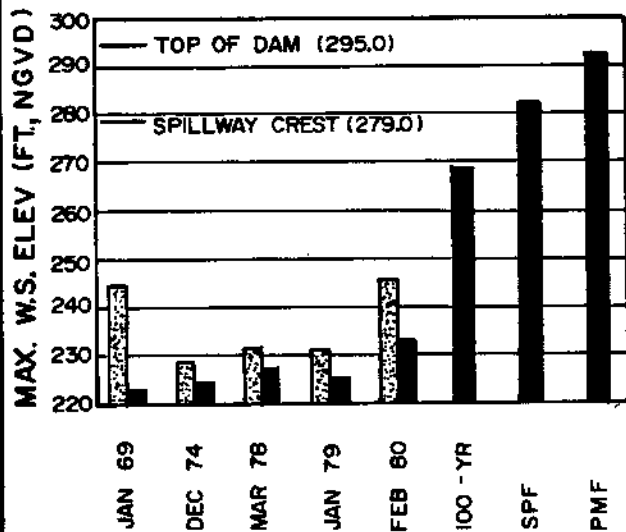
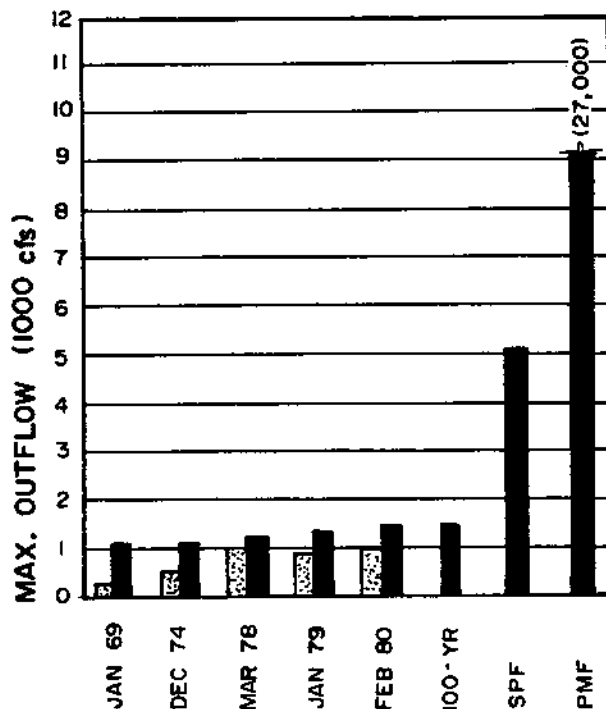
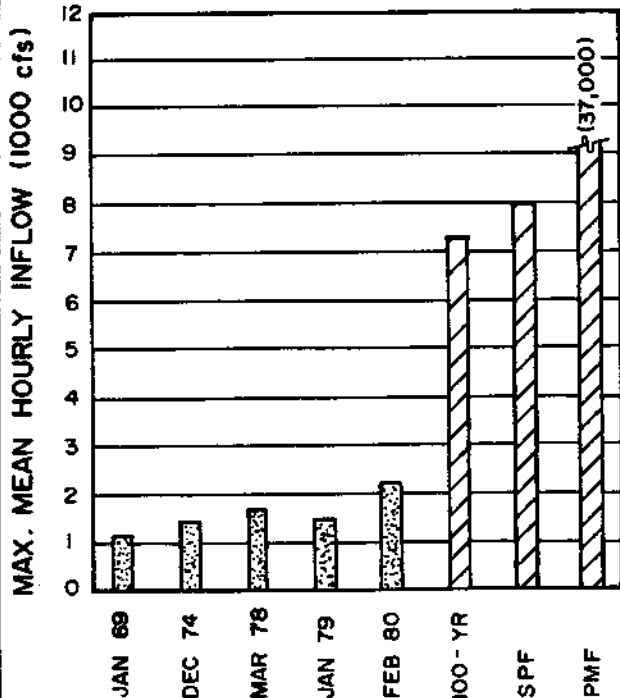


12

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

FEBRUARY 1980
FLOOD ROUTING
CURRENT PLAN

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT



- RECORDED
- DESIGN VALUE
- REGULATION PLAN
- SPF STANDARD PROJECT FLOOD
- 100-YR 100-YR FLOOD
- PMF PROBABLE MAX FLOOD

NOTE: A LISTING OF THE QUANTITIES DEPICTED HERE CAN BE FOUND IN TABLE 8-03.

BREA DAM
SAN GABRIEL RIVER BASIN
CALIFORNIA

**COMPARISON OF HISTORICAL
AND DESIGN FLOODS**

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

TABLE
Comparison of Historical and Design Floods
(Peak values for all quantities)

	OPERATION RECORDS				REGULATION CONTROL PLAN			
	INFLOW* (CFS)	OUTFLOW (CFS)	W.S.E. (FEET, NGVD)	CONTENTS (AC-FT)	OUTFLOW (CFS)	W.S.E. (FEET, NGVD)	CONTENTS (AC-FT)	
Prob. Max. Flood	37,000	N/A	N/A	N/A	27,000	292.16	6,678	
Standard Proj. Flood	8,000	N/A	N/A	N/A	5,060	283.23	4,561	
100-year Flood	7,302	N/A	N/A	N/A	1,486	268.93	2,599	
25 January 1969	1,192	256	245.30	684	1,038	223.18	37	
4 December 1974	1,451	567	229.12	124	1,102	224.64	53	
4 March 1978	1,727	1,007	231.40	172	1,224	227.40	94	
6 January 1979	1,585	872	231.50	175	1,157	225.80	69	
16 February 1980	2,240	1,061	246.00	720	1,473	233.80	233	
1 March 1983	2,625	1,440	252.00	1,073	1,400	237.89	467	

* Maximum mean hourly values for historical floods.

Note: See Plate 8-50 for graphical comparison of the values listed here. All floods routed using current operation plan.

BREA DAM
 SAN GABRIEL RIVER BASIN
 CALIFORNIA

(TABLE) COMPARISON OF HISTORICAL
 & DESIGN FLOODS

U.S. ARMY CORPS OF ENGINEERS
 LOS ANGELES DISTRICT