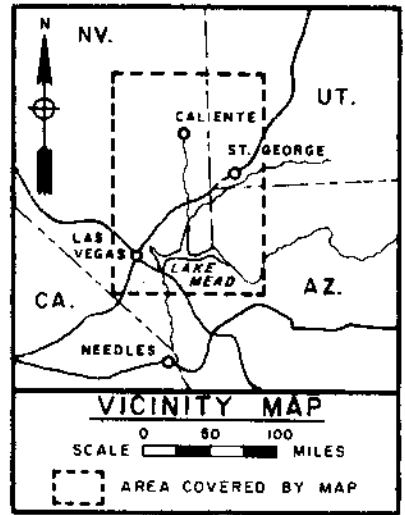
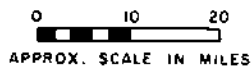
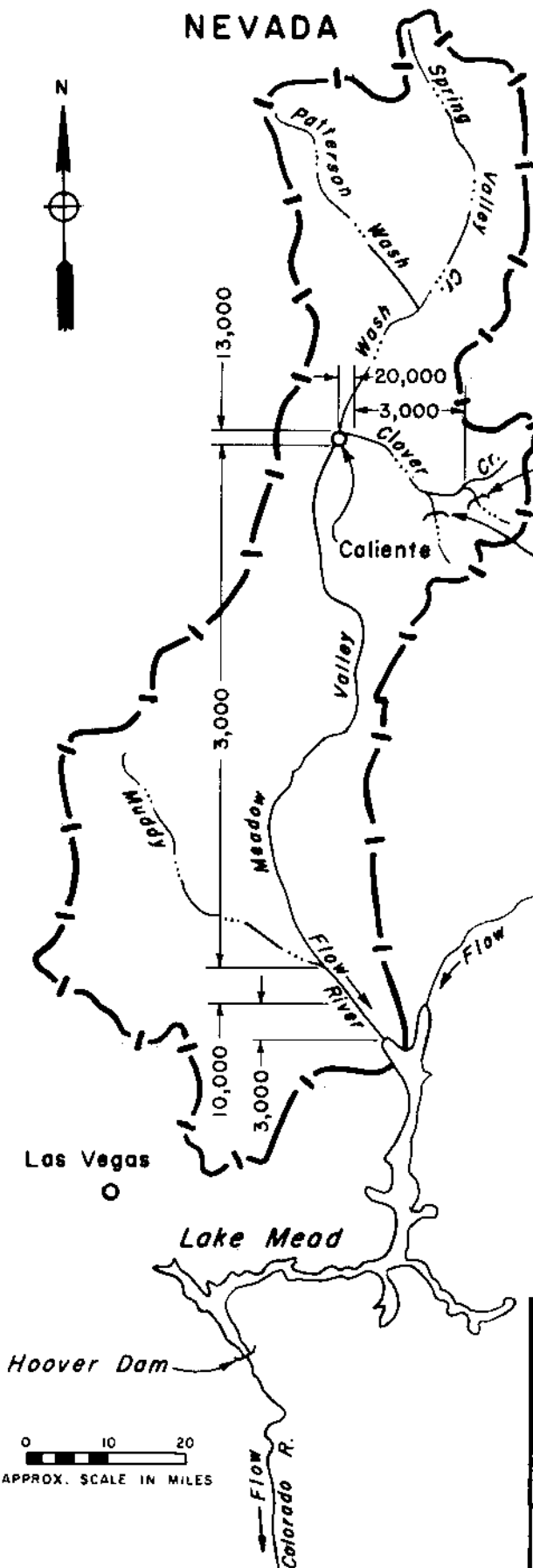


NEVADA



Mathews Canyon Dam

Pine Canyon Dam



UTAH

St. George

River

ARIZONA

LEGEND

-  BOUNDARY OF DRAINAGE AREA
-  1000 CHANNEL CAPACITY IN CFS

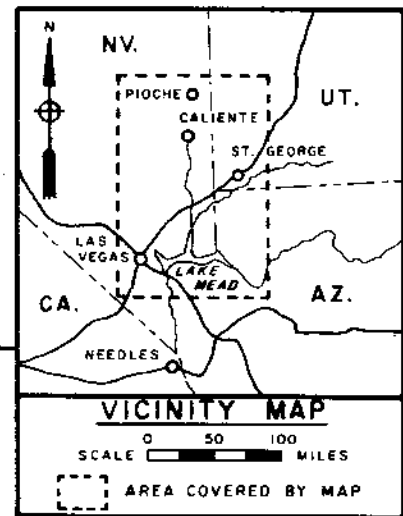
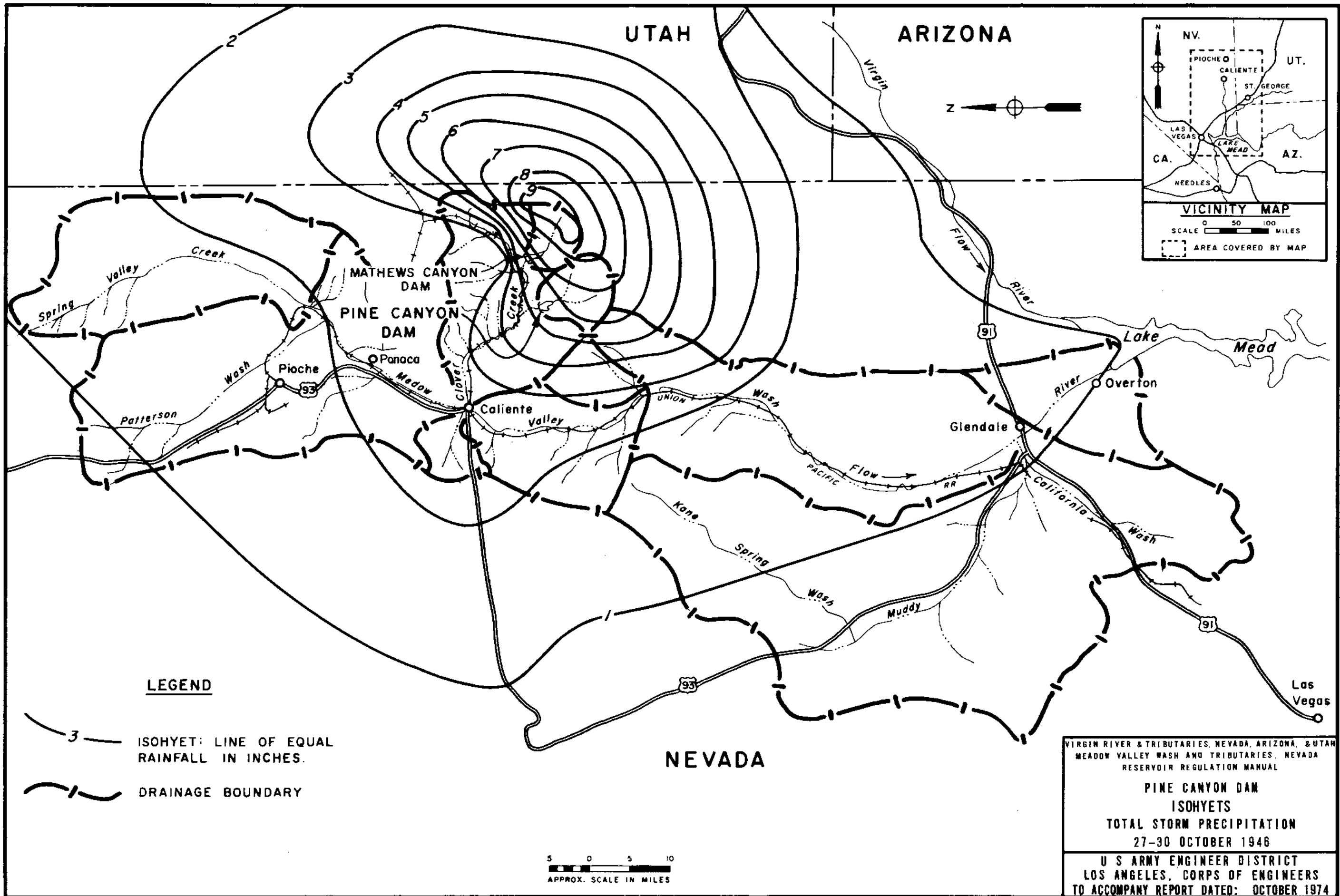
NOTE: CHANNEL CAPACITIES WERE EXTRACTED FROM THE CORPS OF ENGINEERS, "REPORT ON SURVEY, FLOOD CONTROL VIRGIN RIVER AND TRIBUTARIES IN NEVADA, ARIZONA AND UTAH" JUNE 20, 1942.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL



PINE CANYON DAM

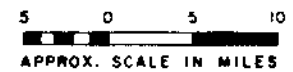
MUDDY RIVER BASIN

U S ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974



**LEGEND**

-  ISOHYET: LINE OF EQUAL RAINFALL IN INCHES.
-  DRAINAGE BOUNDARY

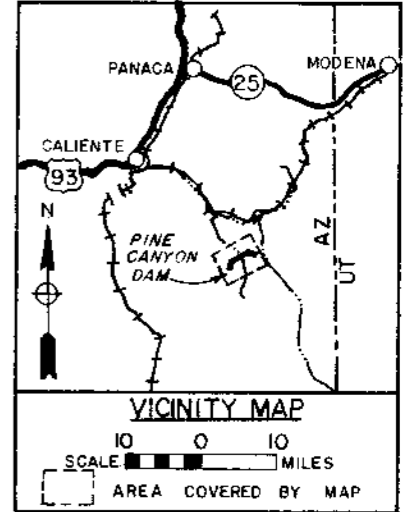
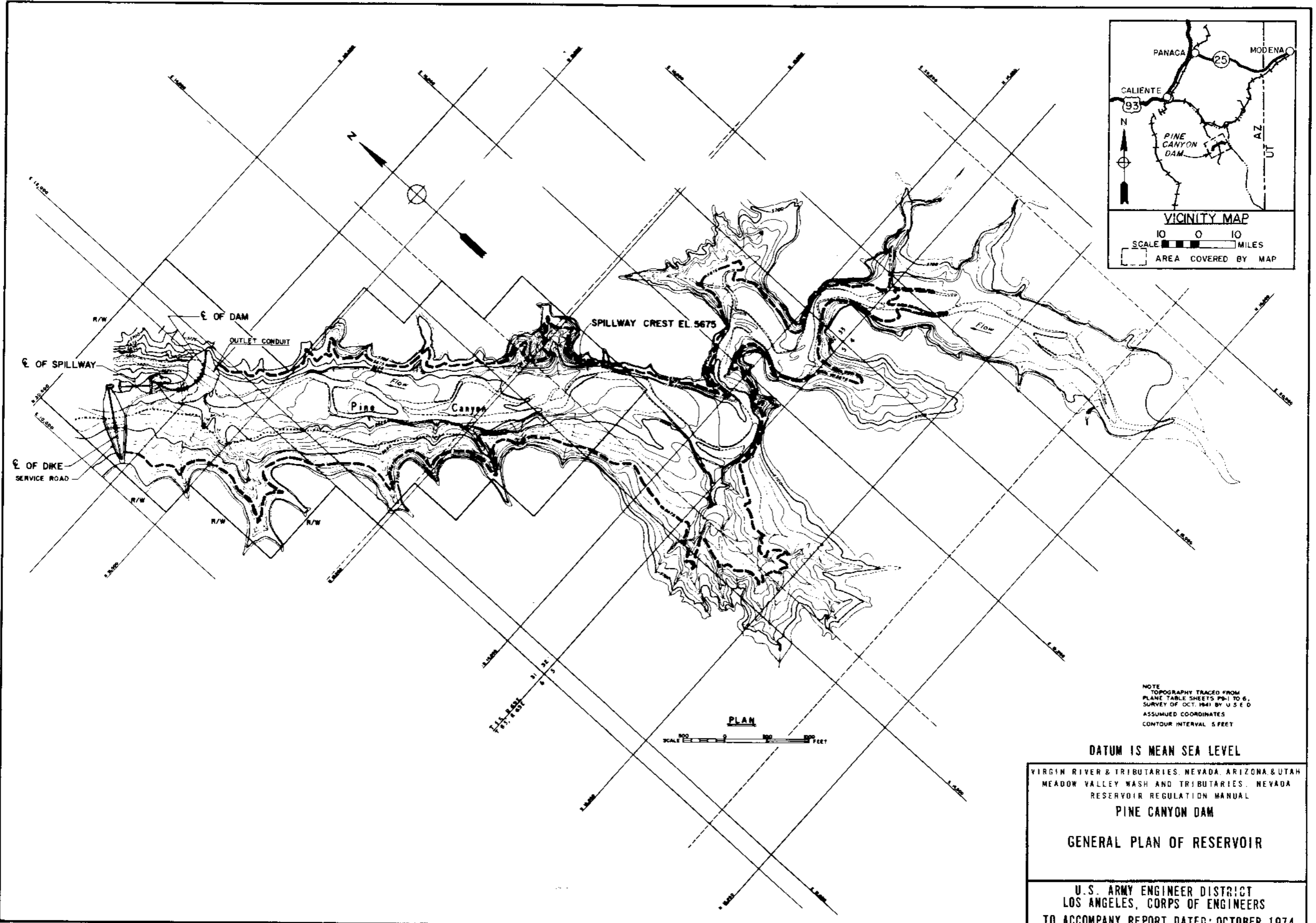


VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

**PINE CANYON DAM  
 ISOHYETS**

TOTAL STORM PRECIPITATION  
 27-30 OCTOBER 1946

U S ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974



NOTE  
 TOPOGRAPHY TRACED FROM  
 PLANE TABLE SHEETS P-1 TO 6,  
 SURVEY OF OCT. 1941 BY U.S.E.C.  
 ASSUMED COORDINATES  
 CONTOUR INTERVAL 5 FEET



DATUM IS MEAN SEA LEVEL

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL  
**PINE CANYON DAM**  
 GENERAL PLAN OF RESERVOIR

U.S. ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

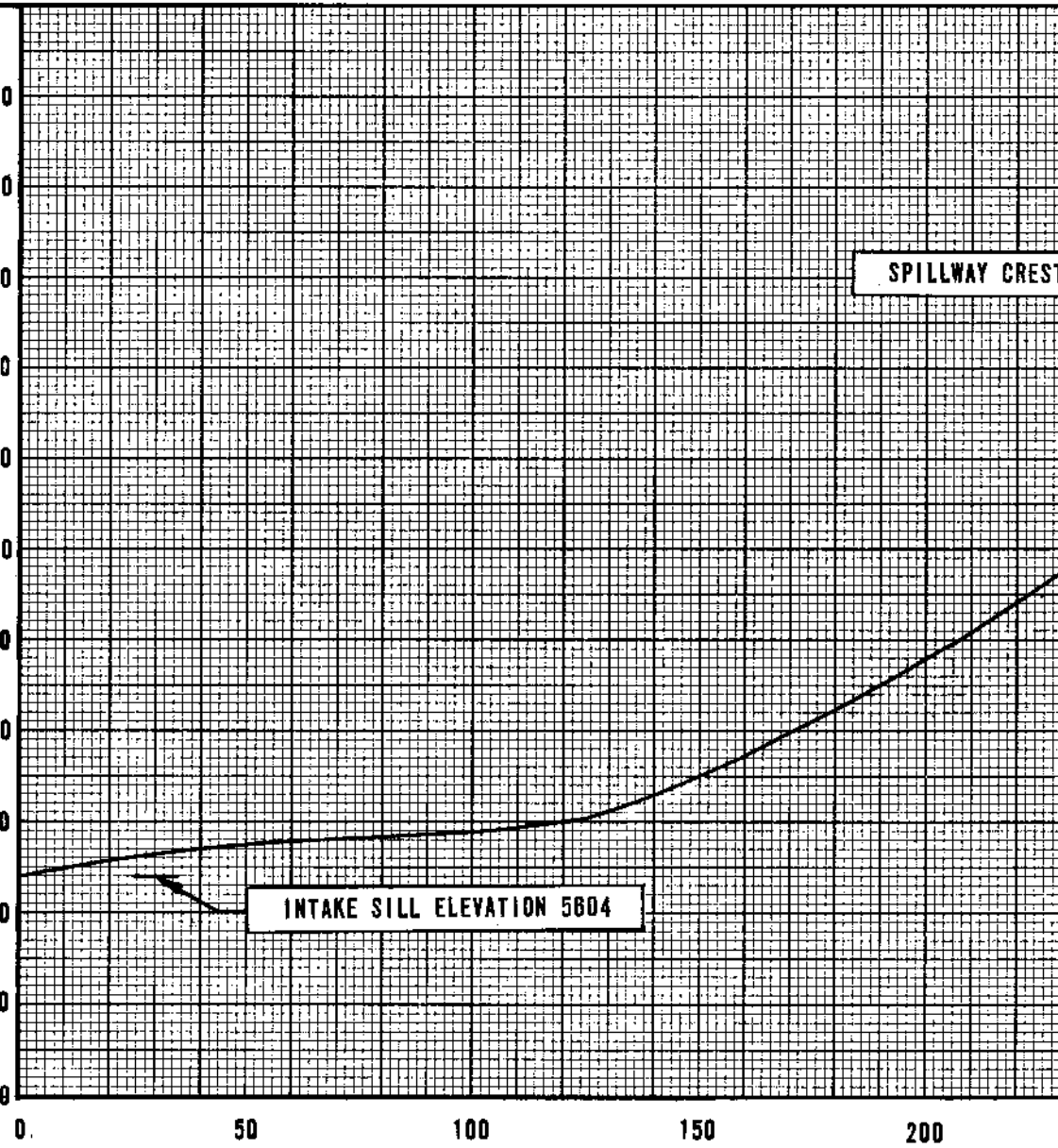
For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.

WATER SURFACE ELEVATION IN FEET ABOVE MEAN SEA LEVEL

5890  
5880  
5870  
5860  
5850  
5840  
5830  
5820  
5810  
5800  
5580



INTAKE SILL ELEVATION 5804

SPILLWAY CREST ELEVATION 5675

250                      300                      350

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL

PINE CANYON DAM

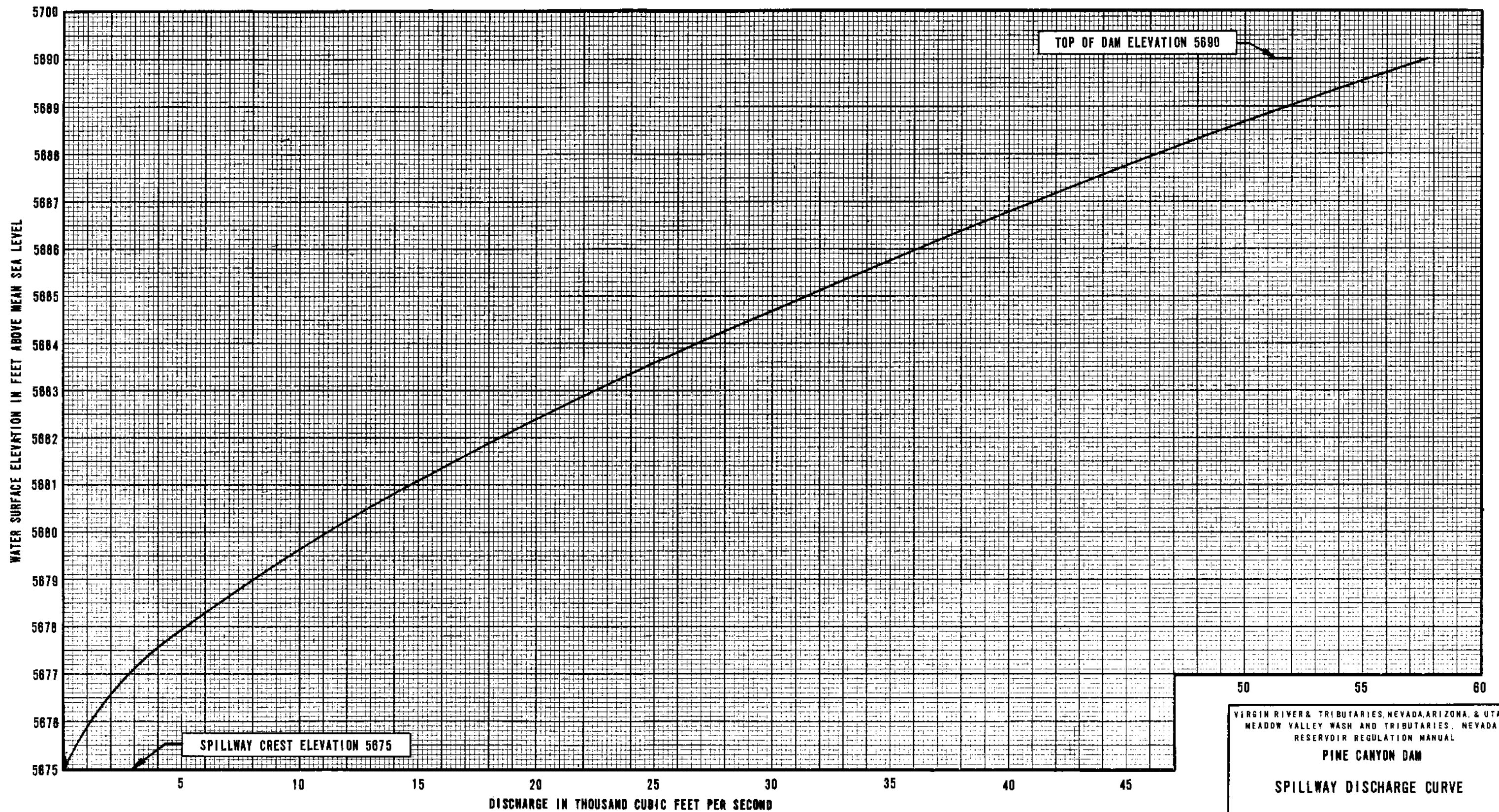
OUTLET DISCHARGE CURVE  
3.5 FT. DIA. UNGATED CONDUIT

U S ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974

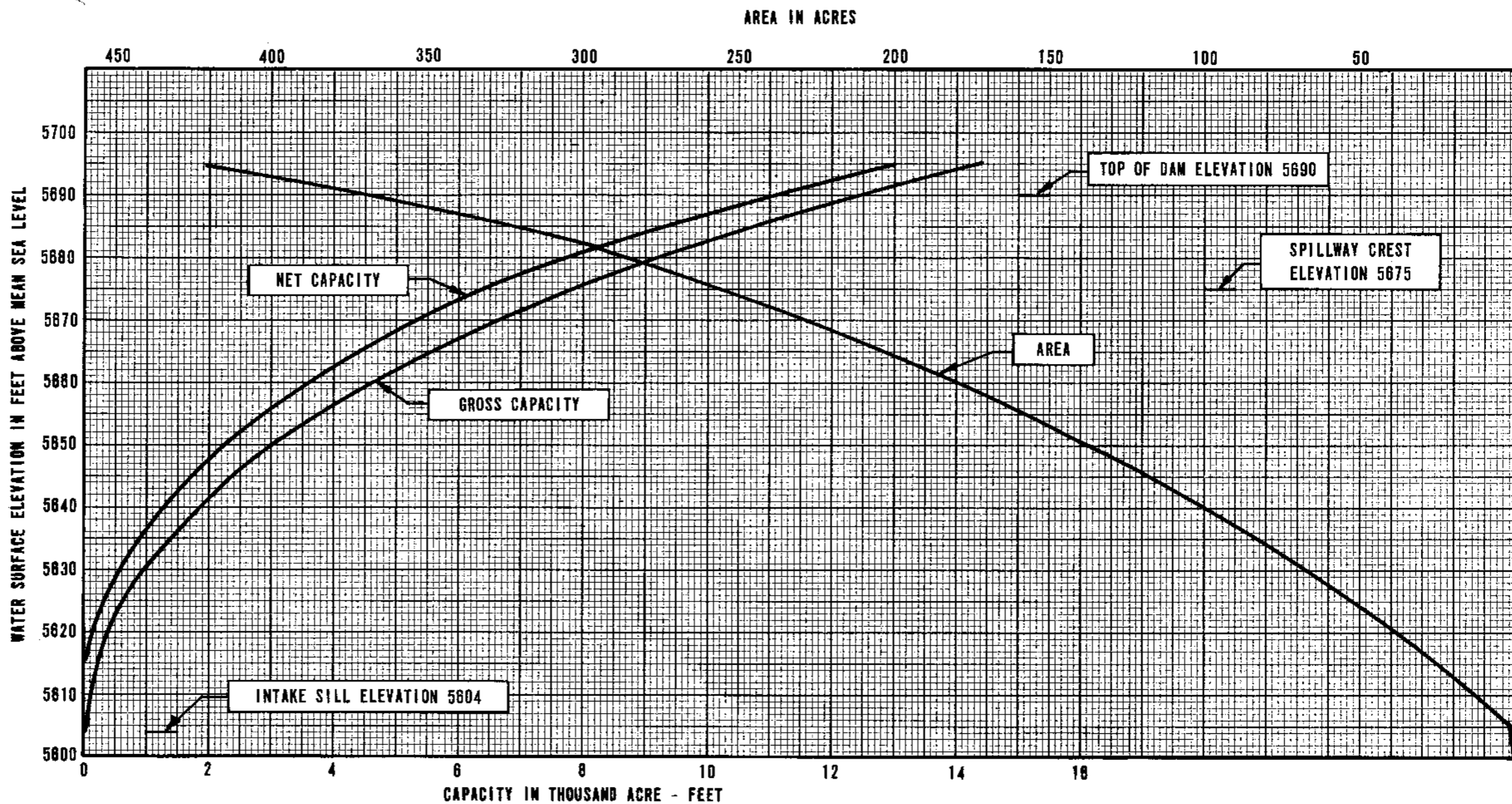


**The Plate you are attempting to access is not currently available.**

For additional information, please contact the Los Angeles District Public Affairs Office at (213) 452-3908.



VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL  
**PINE CANYON DAM**  
 SPILLWAY DISCHARGE CURVE  
 U S ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974



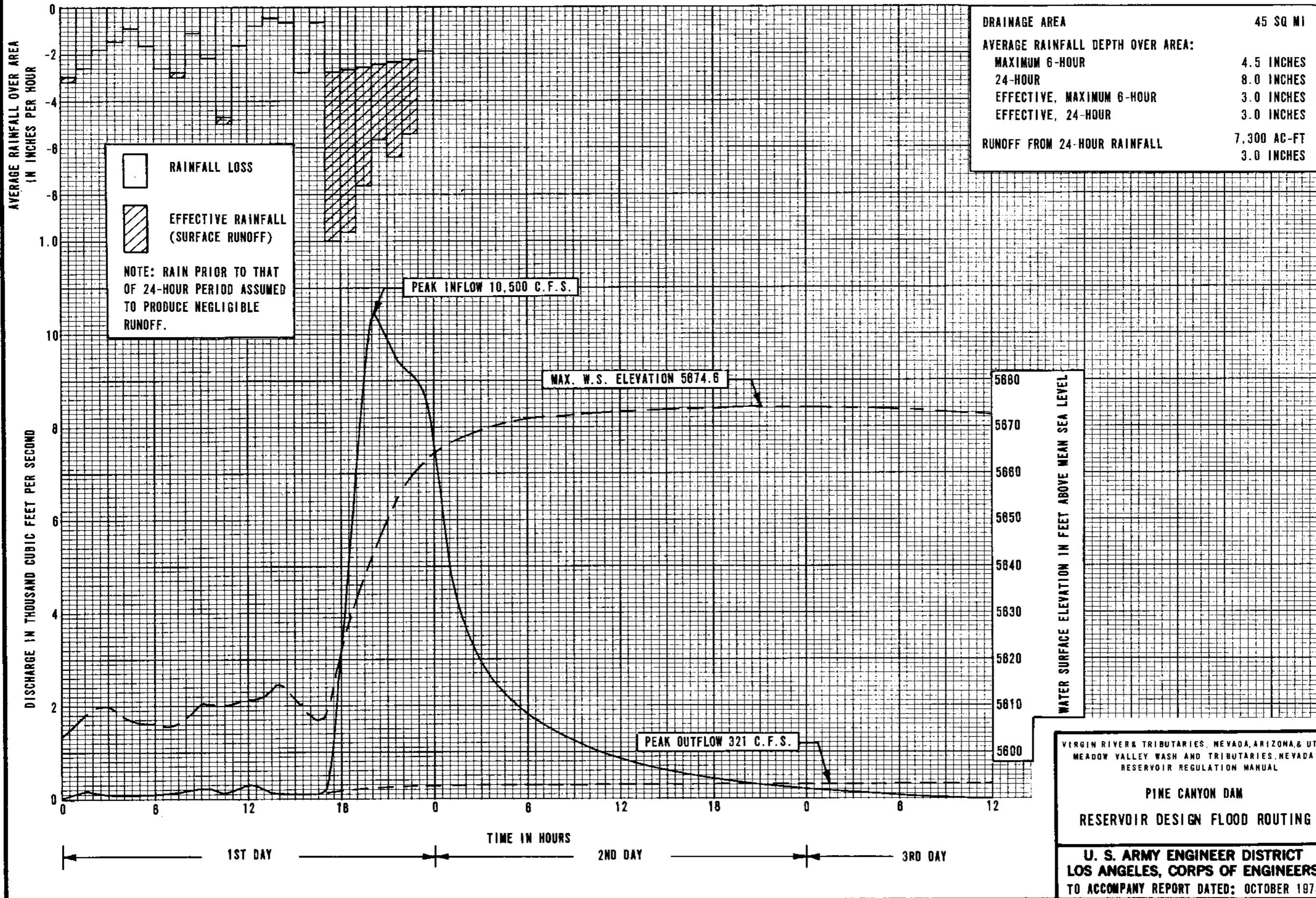
NOTE: CURVES BASED ON SURVEY OF MARCH 1954

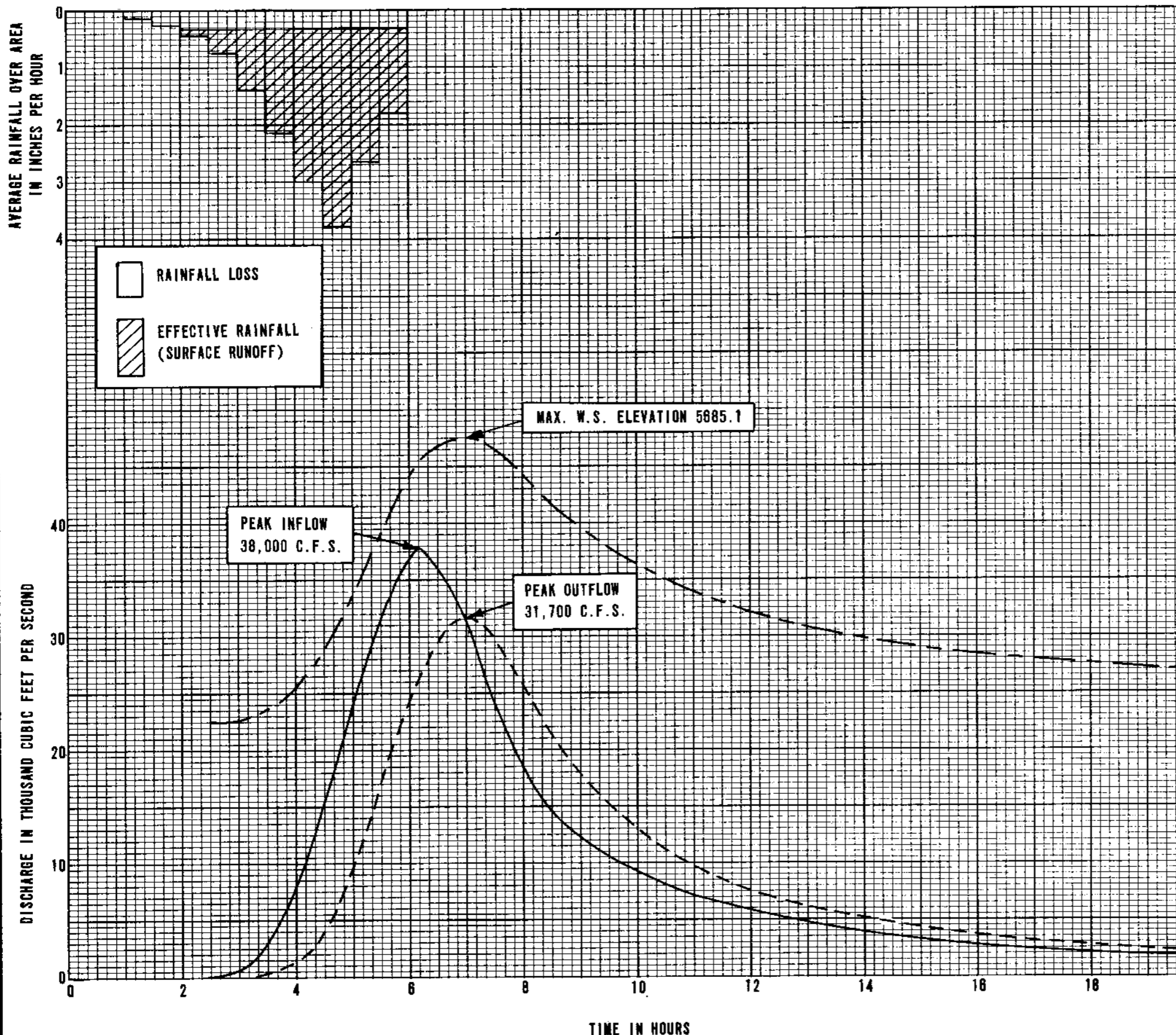
VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

**PINE CANYON DAM**

**AREA AND CAPACITY CURVES**

U S ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED; OCTOBER 1974





DRAINAGE AREA	45 SQ MI
AVERAGE RAINFALL DEPTH OVER AREA	
TOTAL (6-HOUR)	8.2 INCHES
MAXIMUM 3-HOUR	7.4 INCHES
RUNOFF:	
TOTAL FLOW	15,800 AC-FT
	6.6 INCHES

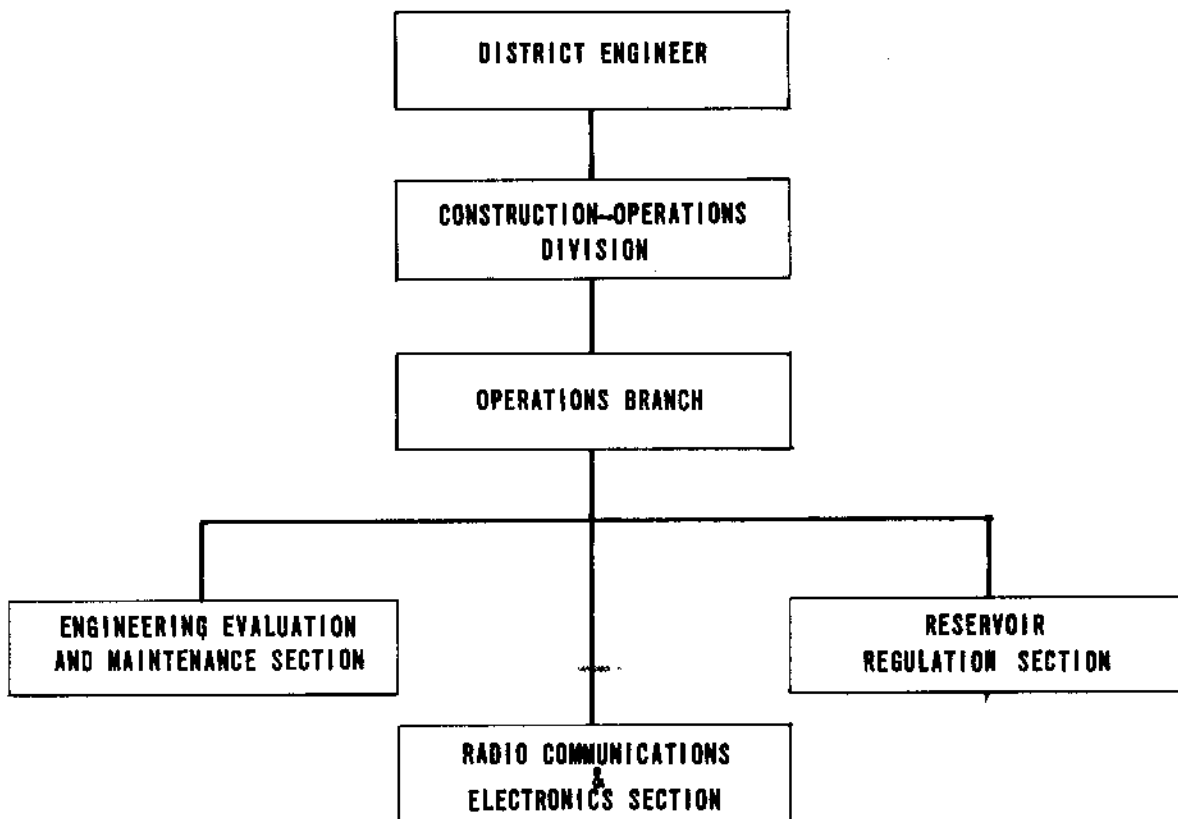
□ RAINFALL LOSS  
 ▨ EFFECTIVE RAINFALL (SURFACE RUNOFF)

5686  
 5684  
 5682  
 5680  
 5678  
 5676  
 5674  
 WATER SURFACE ELEVATION IN FEET ABOVE MEAN SEA LEVEL

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

PINE CANYON DAM  
 SPILLWAY DESIGN FLOOD ROUTING

U. S. ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974



NOTE: SEE PLATE 15  
 FOR NAMES AND  
 TELEPHONE NUMBERS  
 OF KEY PERSONNEL

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

PINE CANYON DAM  
 ORGANIZATION  
 FOR NORMAL OPERATION

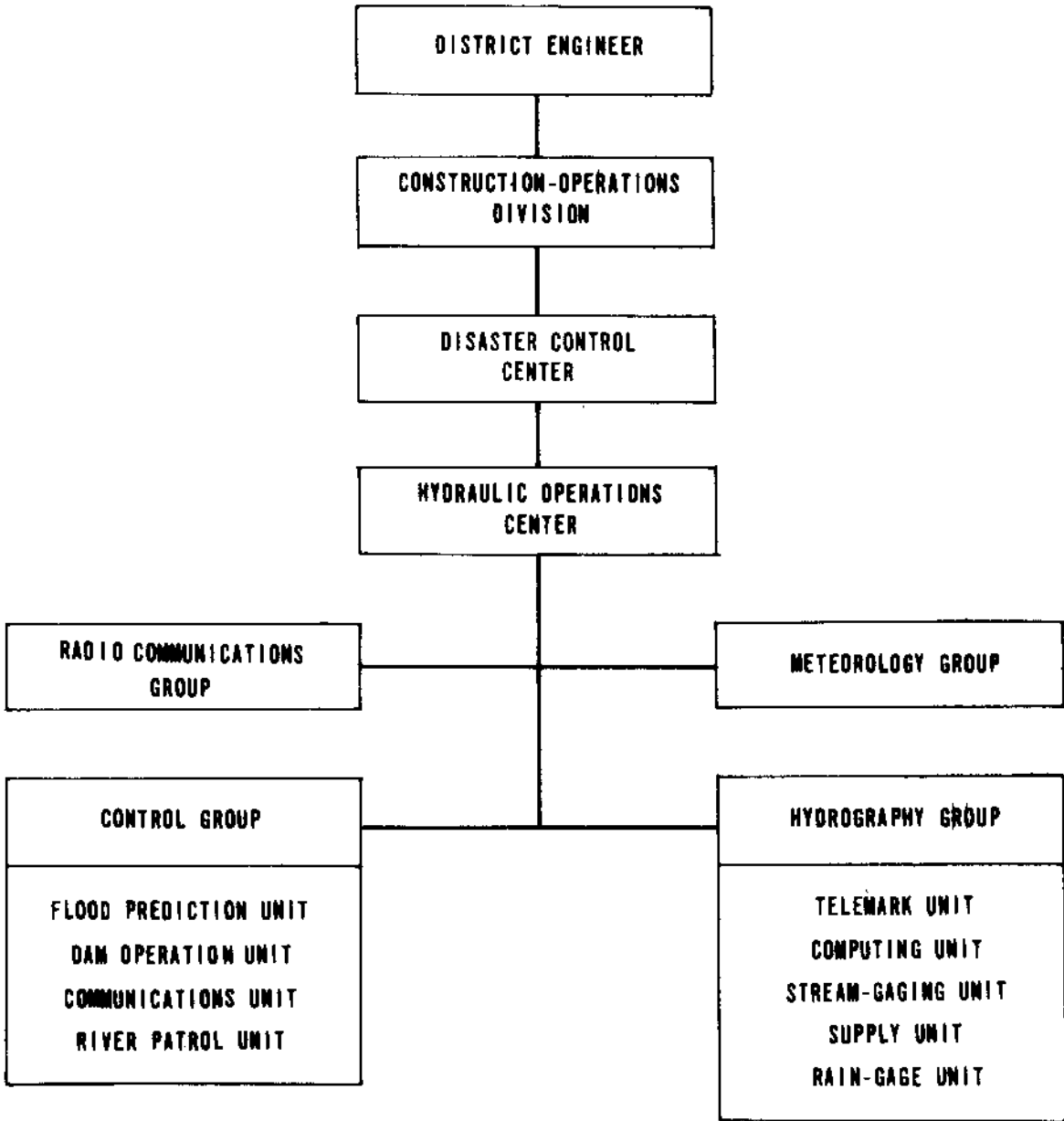
U S ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974

TITLE	NAME	OFFICE TELEPHONE	HOME TELEPHONE
DISTRICT ENGINEER	FOLEY, J. V. COLONEL	(213) 688-5300	(213) 377-4888 PALOS VERDES PENINSULA, CA
CHIEF CONSTRUCTION- OPERATIONS DIVISION	YOUNG, R. P.	(213) 688-5600	(714) 624-4659 CLAREMONT, CA
CHIEF OPERATIONS BRANCH	LAND, R. E.	(213) 688-5620	(213) 583-3632 HUNTINGTON PARK CA
CHIEF RESERVOIR REGULATION SECTION	FLANNERY, L. C.	(213) 688-5644	(213) 396-9859 SANTA MONICA, CA
CHIEF RADIO COMMUNICATIONS & ELECTRONICS SECTION	ERICKSON, E. M.	(213) 688-5645	(213) 355-7236 SIERRA MADRE, CA
CHIEF ENGINEERING EVALUATION & MAINTENANCE SECTION	HOOPPAW, C. K.	(213) 283-2757	(213) 691-2839 WHITTIER, CA

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL

PINE CANYON DAM  
KEY PERSONNEL  
FOR NORMAL OPERATION

U S ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974



NOTE: SEE PLATE 17  
FOR NAMES AND  
TELEPHONE NUMBERS  
OF KEY PERSONNEL.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES NEVADA  
RESERVOIR REGULATION MANUAL  
**PINE CANYON DAM**  
**ORGANIZATION**  
**FOR FLOOD-EMERGENCY OPERATION**  
U S ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974



TITLE	NAME	OFFICE TELEPHONE	HOME TELEPHONE
DISTRICT ENGINEER	FOLEY, J.V. COLONEL	(213) 888-5300	(213) 377-4888 PALOS VERDES PENINSULA, CA
CHIEF CONSTRUCTION- OPERATIONS DIVISION	YOUNG, R.P.	(213) 888-5800	(714) 624-4859 CLAREMONT, CA
CHIEF DISASTER CONTROL CENTER	LAND, R.E.	(213) 888-5620	(213) 583-3832 HUNTINGTON PARK CA
CHIEF HYDRAULIC OPERATIONS CENTER	FLANNERY, L.C.	(213) 888-5844	(213) 396-9859 SANTA MONICA, CA
CHIEF RADIO COMMUNICATIONS GROUP	ERICKSON, E.H.	(213) 888-5845	(213) 355-7236 SIERRA MADRE, CA
CHIEF CONTROL GROUP	SIENKIEWICH, A.	(213) 888-5844	(213) 433-8532 LONG BEACH, CA
CHIEF METEOROLOGY GROUP	PYKE, C.B.	(213) 888-4757	(213) 277-3393 BEVERLY HILLS, CA
CHIEF HYDROGRAPHY GROUP	PEREA, E.B.	(213) 888-5846	(213) 333-1191 LA PUENTE, CA

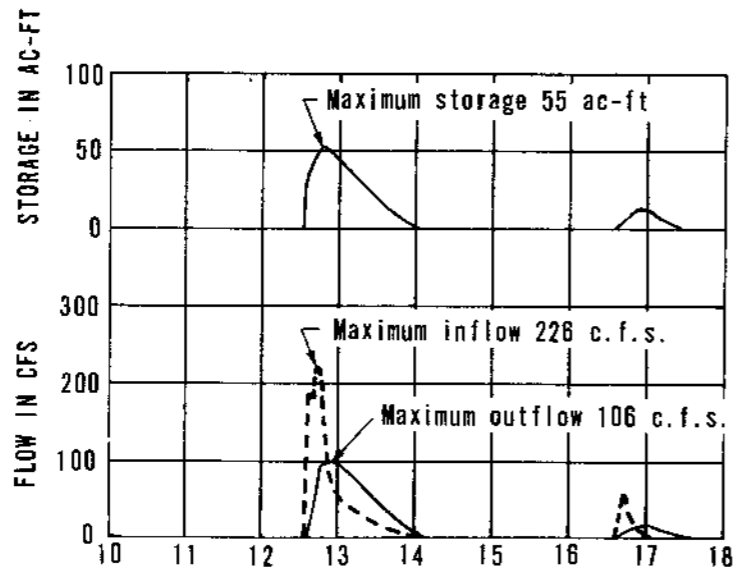
VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL

**PINE CANYON DAM**

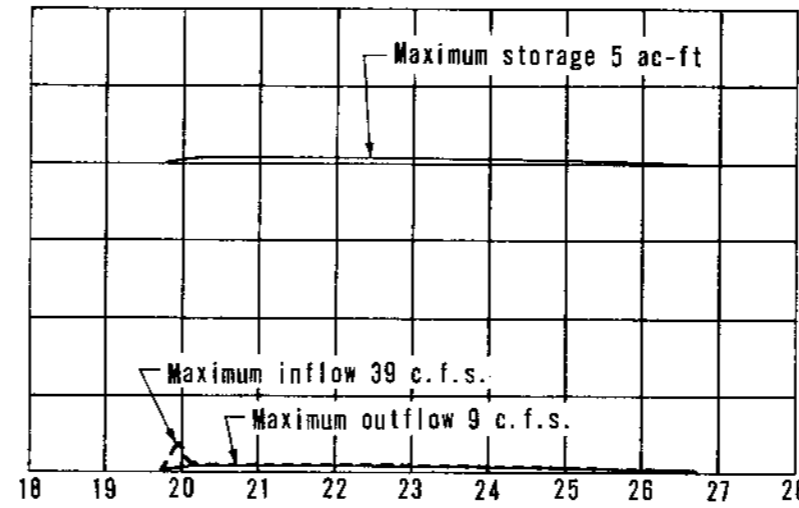
**KEY PERSONNEL**

**FOR FLOOD-EMERGENCY OPERATION**

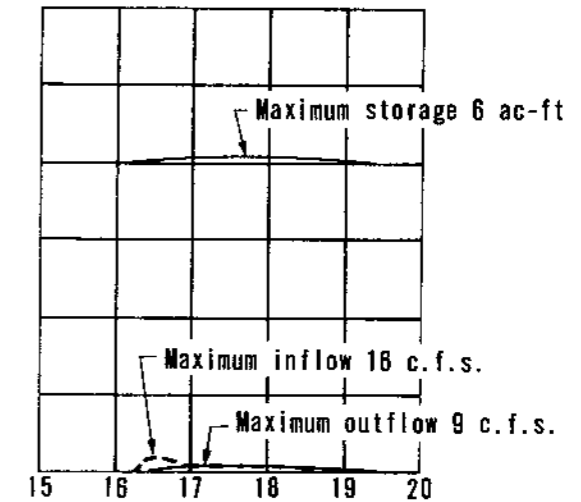
U S ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974



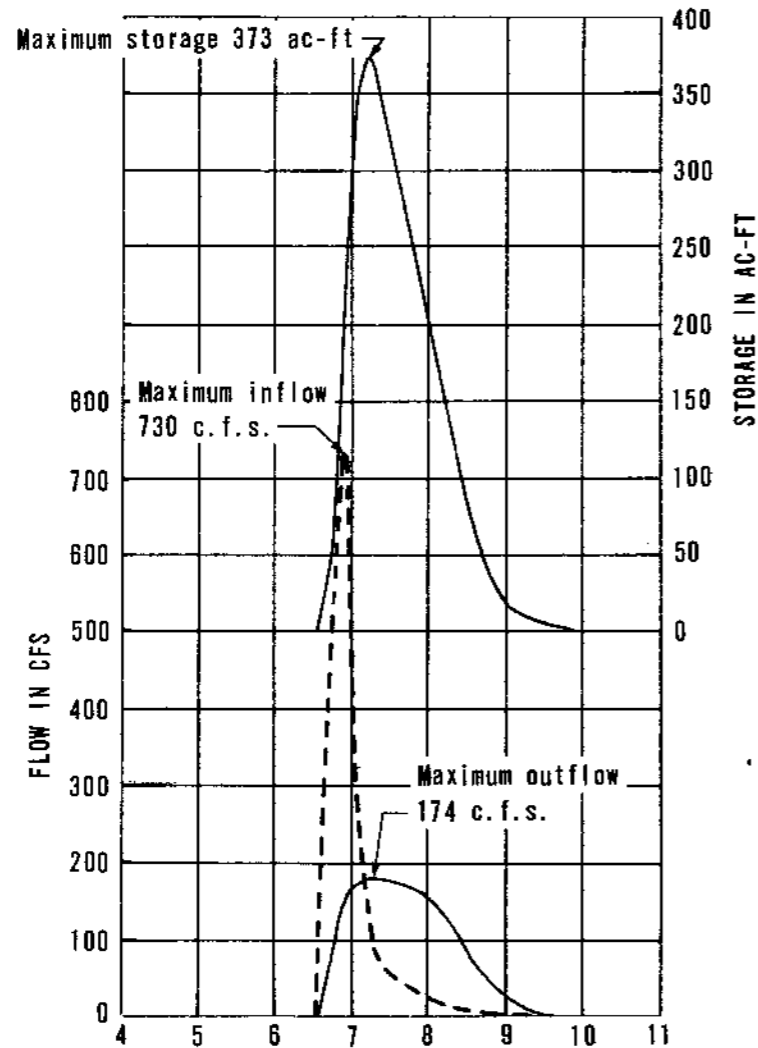
FEBRUARY 1962



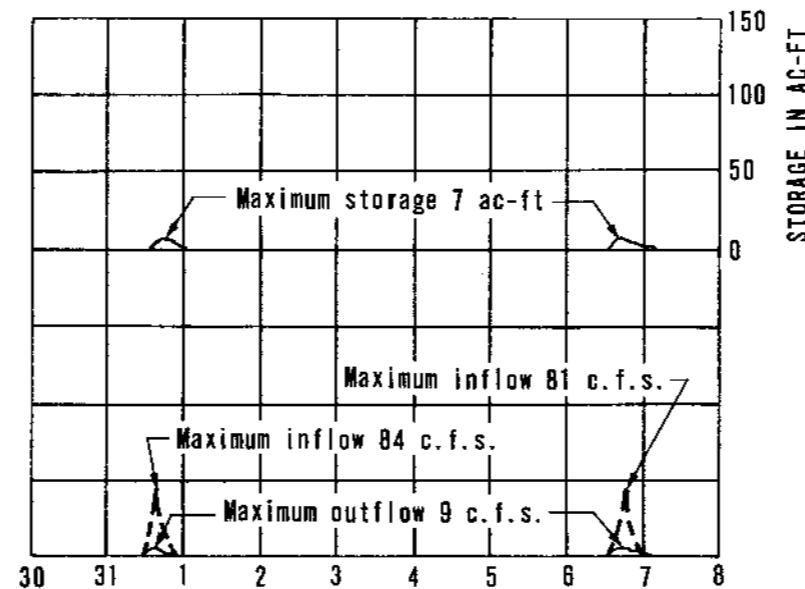
APRIL 1965



MARCH 1966



DECEMBER 1966



JULY 1968

AUGUST 1968

NOTE:

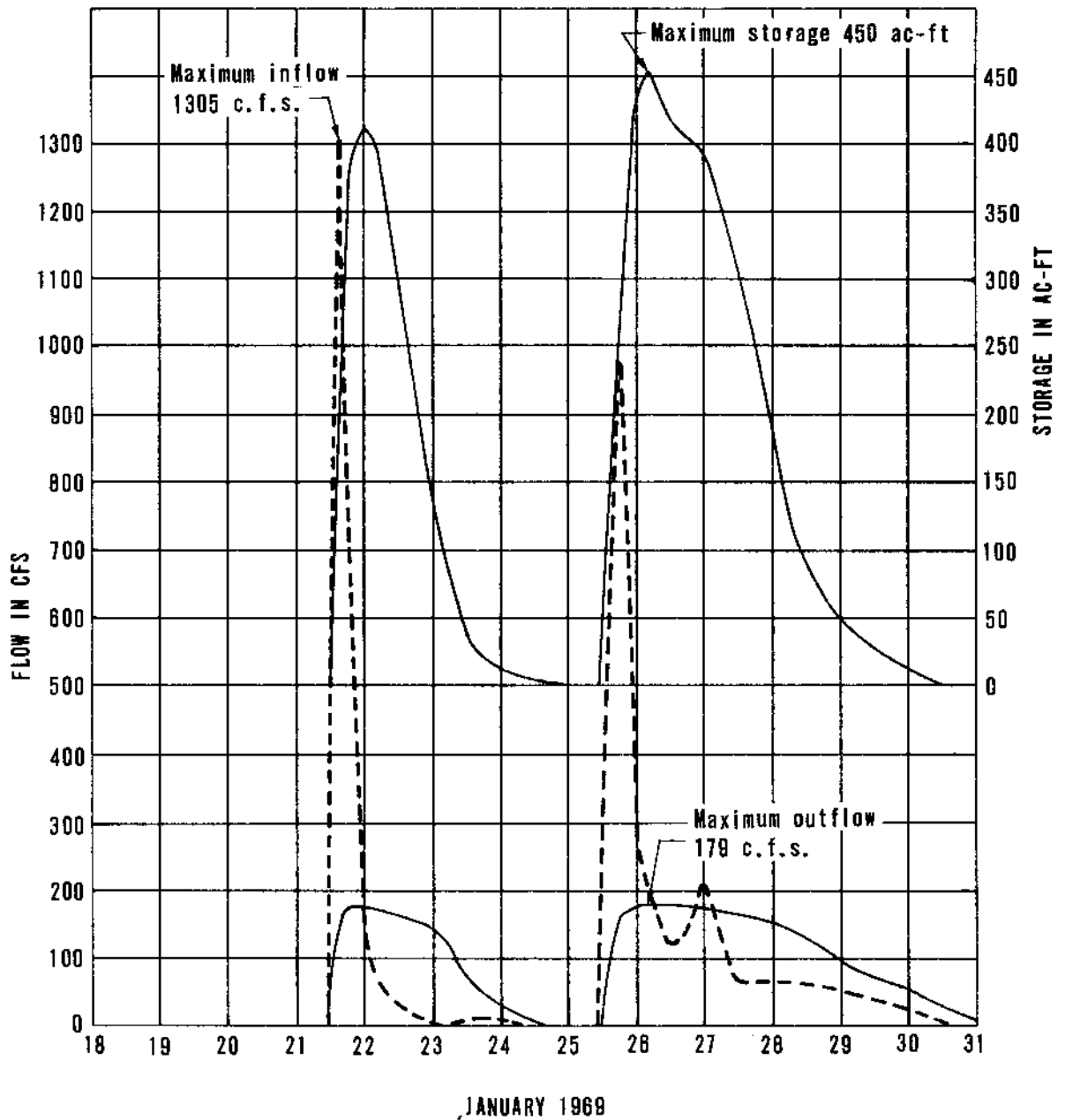
1. Periods of appreciable flow shown only.
2. Operation record from reservoir water surface records. The maximum inflow is the calculated peak hourly value.
3. Operation record is not available for the flow period of Dec. 30, 1965 to Jan. 2, 1966.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL

PINE CANYON DAM

CONDENSED OPERATION RECORD

U. S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974



**NOTE:**

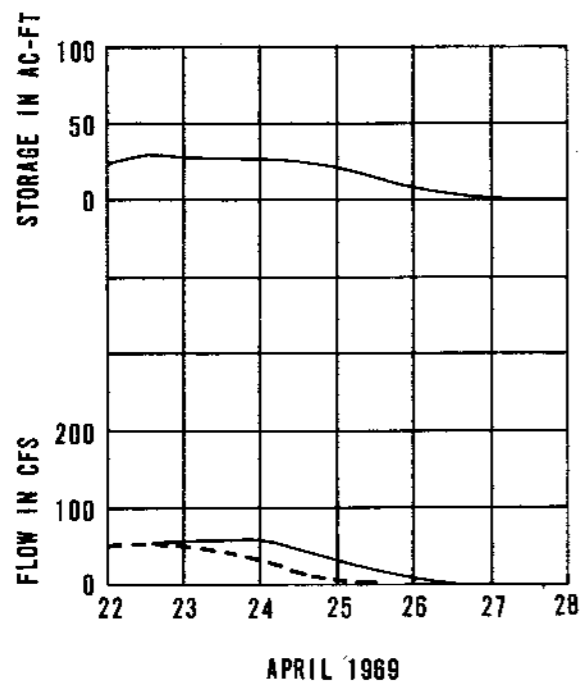
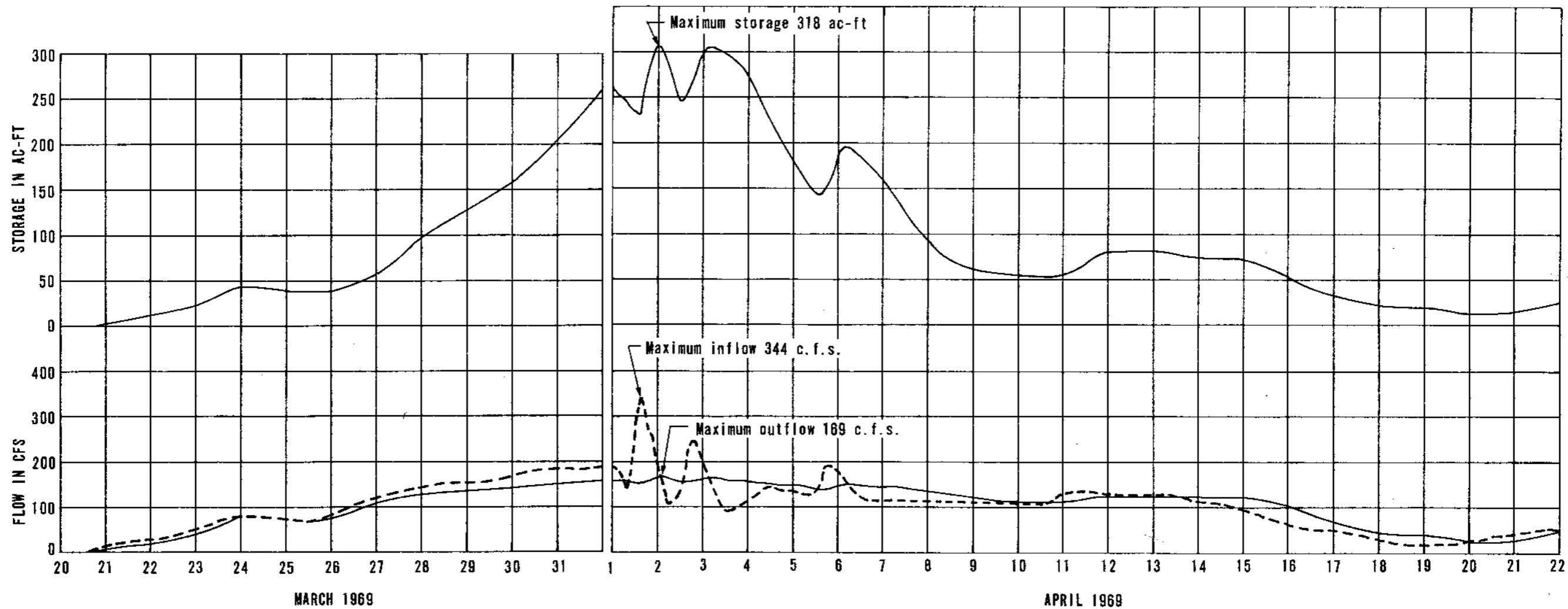
1. Periods of appreciable flow shown only.
2. Operation record from reservoir water surface records. The maximum inflow is the calculated peak hourly value.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
RESERVOIR REGULATION MANUAL

PINE CANYON DAM

CONDENSED OPERATION RECORD

U. S. ARMY ENGINEER DISTRICT  
LOS ANGELES, CORPS OF ENGINEERS  
TO ACCOMPANY REPORT DATED: OCTOBER 1974

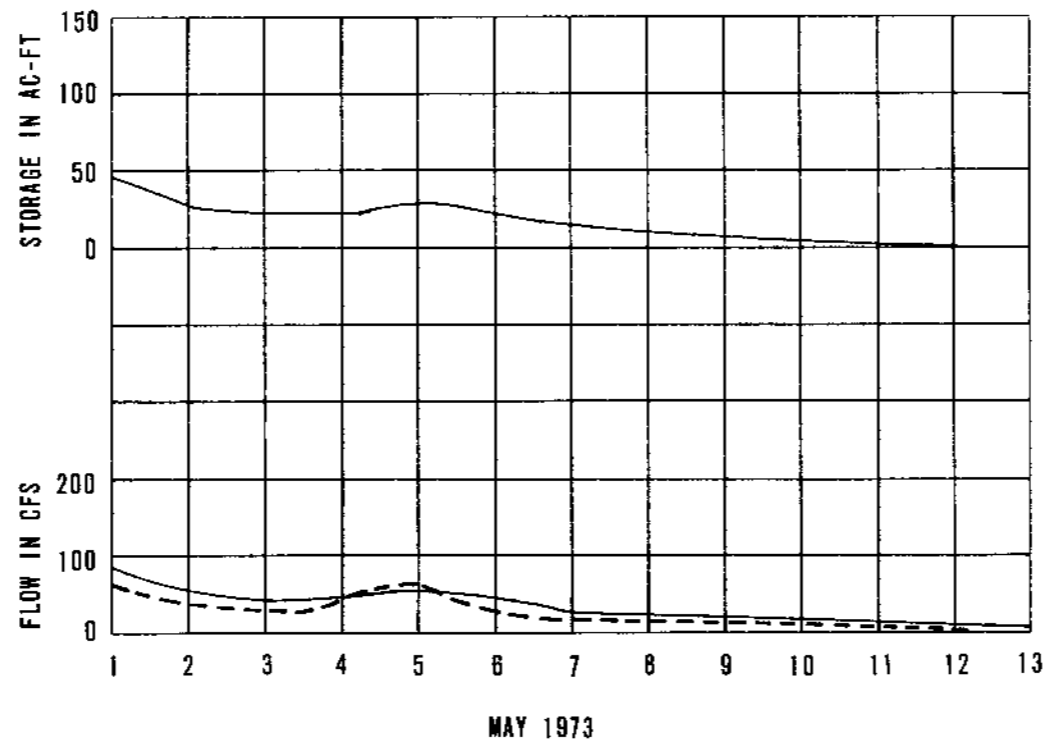
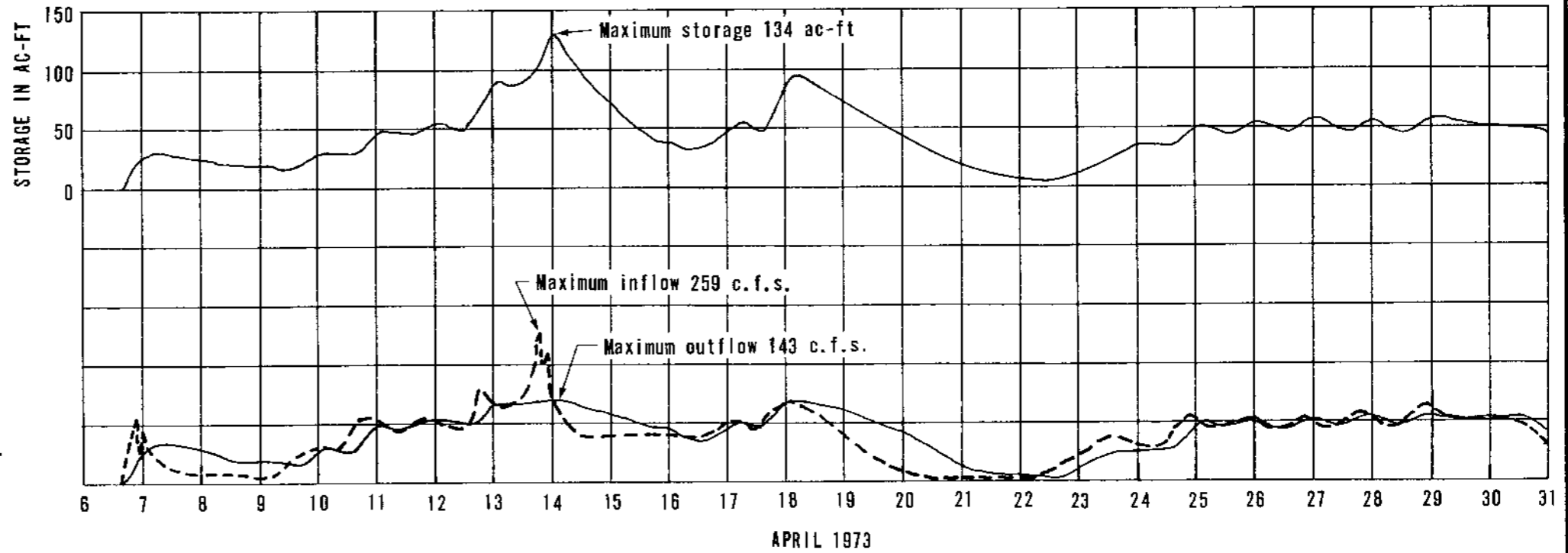
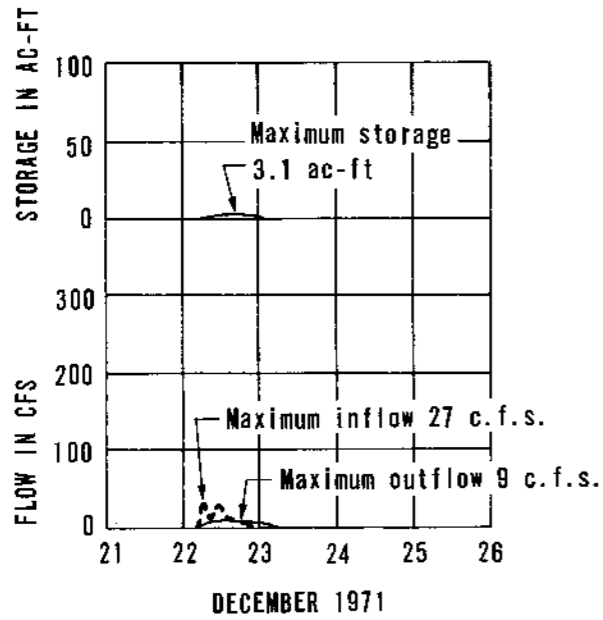


- NOTE:
1. Periods of appreciable flow shown only.
  2. Operation record from reservoir water surface records. The maximum inflow is the calculated peak hourly value.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

PINE CANYON DAM  
 CONDENSED OPERATION RECORD

U. S. ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974

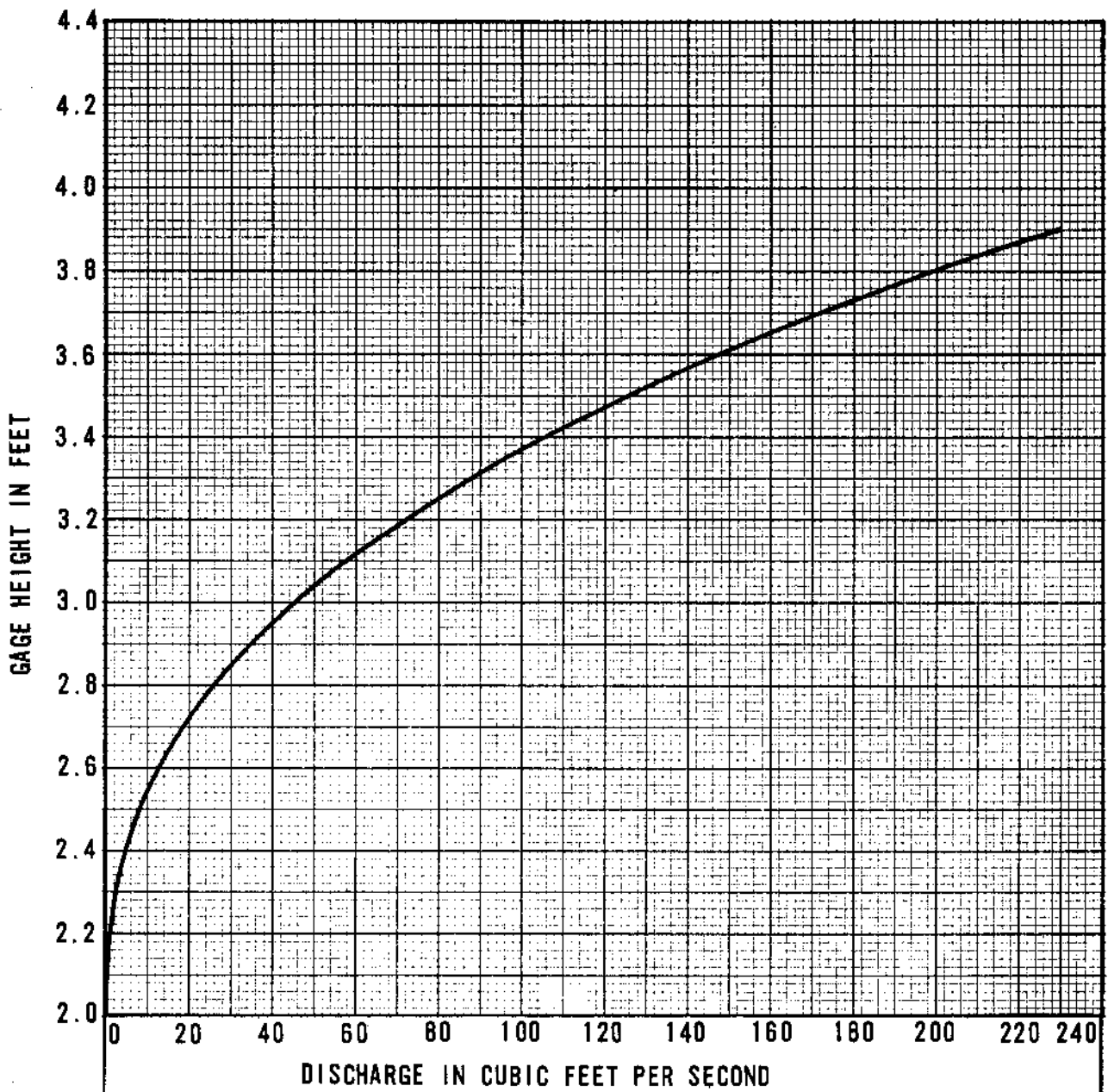


- NOTE:**
1. Periods of appreciable flow shown only.
  2. Operation record from reservoir water surface records. The maximum inflow is the calculated peak hourly value.

VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

**PINE CANYON DAM  
 CONDENSED OPERATION RECORD**

U. S. ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974



VIRGIN RIVER & TRIBUTARIES, NEVADA, ARIZONA, & UTAH  
 MEADOW VALLEY WASH AND TRIBUTARIES, NEVADA  
 RESERVOIR REGULATION MANUAL

**PINE CANYON DAM  
 DISCHARGE RATING CURVE FOR  
 PINE CANYON WASH STREAM  
 GAGING STATION**

U S ARMY ENGINEER DISTRICT  
 LOS ANGELES, CORPS OF ENGINEERS  
 TO ACCOMPANY REPORT DATED: OCTOBER 1974