

RESERVOIR SEDIMENTATION
DATA SUMMARY

PUDDINGSTONE DAM

70-25

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD		2. RIVER Puddingstone Cr.		3. STATE Calif.			
	4. SEC. TWP. 1 S RANGE 9 W		5. NEAREST TOWN San Dimas		6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 835		8. TOP OF DAM ELEV. 982.0		SPILLWAY CREST ELEV. 970			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-FEET	14. ACCUMULATED ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	970	522.8	17,398	17,398	1927-1928		
	b. POWER							
	c. WATER SUPPLY	After flood season water may be stored to spillway elevation.				16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION					Jan. 1928		
	f. INACTIVE			226 1/2	226 1/2			
WATERSHED	17. LENGTH OF RESERVOIR 1.50 1/2 MILES		AV. WIDTH OF RESERVOIR 0.51 1/2 MILES					
	18. TOTAL DRAINAGE AREA 32.2 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21.07 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 11.0 2/3 SQ. MI.		23. MEAN ANNUAL RUNOFF 4.69 INCHES					
	20. LENGTH 7.5 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF 2750 (21) AC.-FT.			
	21. MAX. ELEV. 5588		MIN. ELEV. 835		25. CLIMATIC CLASSIFICATION Subhumid			
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ. MI.
	1915	Original				522.8	17,398	540
	Jan. 1941	13.0	13.0			487	17,190	534
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-FEET			36. WATER INFL. TO DATE AC.-FT.		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	1915							
	Jan. 1941	20.6	2760	12,220	26,530	2040	26,530	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.	
	1915							
Jan. 1941	208	16.0	1.45	208	16.0	1.45		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE	
1915								
Jan. 1941				.092	1.20			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	127-110	110-90	90-70	70-50	50-30	30-10	-10							
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
1915 Jan. 1941	13	43	-	-	-	44								
26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.							
1927-28				1934-35	903.1	888.4	N. D.							
1928-29				1935-36	897.7	879.2	304							
1929-30	No record			1936-37	936.6	872.9	3434							
1930-31				1937-38	959.7	921.2	11,194							
1931-32			#N.D.	1938-39	946.8	931.0	1288							
1932-33	891.8	865.8	N.D.	1939-30	931.6	912.9	350							
1933-34	918.3	859.8	N.D.	1940-41										
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
863	0	0	900	66.2	953	940	250	6567						
865	.1	.9	905	79.6	1310	945	282	7880						
870	8.3	17.3	910	95.9	1740	950	314	9353						
875	13.2	64.9	915	113	2252	955	355	11,004						
880	19.9	144	920	133	2854	960	394	12,855						
885	28.8	260	925	159	3567	965	437	14,910						
890	41.1	429	930	186	4417	970	487	17,190						
895	54.0	659	935	219	5412	975	538	19,726						
						980	588	22,514						
47. REMARKS AND REFERENCES														
1/ In January 1941.														
2/ 21.1 sq. miles controlled by San Dimas, Live Oak Dam, and Puddingstone Diversion Dams.														
#N.D. - Not determined.														
48. AGENCY SUPPLYING DATA					49. DATE									
LACFCD & C. of E.					12 March 1951									

RESERVOIR SEDIMENTATION
DATA SUMMARY

PUDDINGSTONE DAM F.C., Basin

70-25a

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