

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Laguna Reservoir

NAME OF RESERVOIR

70-10

DATA SHEET NO.

DAM	1. OWNER <b>The Irvine Co.</b>			2. RIVER <b>Trib. Newport Bay</b>			3. STATE <b>California</b>		
	4. SEC. <b>19</b> TWP. <b>6 S</b> RANGE <b>8 W</b>			5. NEAREST TOWN <b>Orange</b>			6. COUNTY <b>Orange</b>		
	7. STREAM BED ELEV. <b>219</b>			8. TOP OF DAM ELEV. <b>269</b>			9. SPILLWAY CREST ELEV. <b>263</b>		
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					Feb. 1938			
	b. POWER								
	c. WATER SUPPLY								
	d. IRRIGATION	<b>263</b>	<b>22</b>	<b>274</b>	<b>274</b>	16. DATE NORMAL OPER. BEGAN			
	e. CONSERVATION								
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR <b>0.46</b> MILES			AV. WIDTH OF RESERVOIR <b>0.08</b> MILES					
	18. TOTAL DRAINAGE AREA <b>0.75</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>14</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.72</b> SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <b>Semi-arid</b>				
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.	
	Feb. 1938	-	-	-	-	22	274	365	
	June 1939	2 <u>1</u> / <sub>2</sub>	2	Range Recon.	5	22	266	355	
	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	
	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.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR		
	June 1939	8	4	5.56	8	4	5.56		
	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. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
June 1939	40*	4,840	4,840	1.46	2.92				

\* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

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	-125
	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.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES  
1/ Seasons under items 27 and 41 include flood runoff of March 1938 as well as full season of 1938-39. Age is computed as 2 full years.

Region 7, Soil Conservation Service  
 U. S. Department of Agriculture  
 Portland, Oregon

48. AGENCY SUPPLYING DATA  
 49. DATE August 29, 1950