

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Hodges
NAME OF RESERVOIR

70-2

DATA SHEET NO.

DAM	1. OWNER City of San Diego			2. RIVER San Diequito			3. STATE California									
	4. SEC. 18 TWP. 13S RANGE 2W			5. NEAREST TOWN Escondido			6. COUNTY San Diego									
	7. STREAM BED ELEV. 199			8. TOP OF DAM ELEV. 330			9. SPILLWAY CREST ELEV. 315									
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										Jan. 1919					
	b. POWER															
	c. WATER SUPPLY		315		1,317		36,601		36,601		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
17. LENGTH OF RESERVOIR 7.9					MILES		AV. WIDTH OF RESERVOIR					MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 303				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 301				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH				MILES				AV. WIDTH				MILES			
	21. MAX. ELEV.				MIN. ELEV.				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.	
	Jan. 1919		-		-		-		-		1317		36,601		121	
	July 1935		16.5		16.5		Contour Detailed		10 ft.		1240		34,779		115	
	July 1948		13.0		29.5		"		"		1221		33,482		111	
	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		d. MEAN ANNUAL		e. TOTAL TO DATE			
	July 1935				29,656				489,332		29,656		489,332			
	July 1948				49,940		179,300		649,211		38,595		1,138,543			
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
July 1935		1822 (1938) 1/		110 (117)		0.365 (0.389)		1822 (1938)		110 (117)		0.365 (0.389)				
July 1948		1297 (1385) 1/		99.8 (107)		0.332 (0.355)		3119 (3323)		106 (113)		0.352 (0.375)				
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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
July 1935		65*		517 (551)		517 (551)		0.30		4.98		3880 (4130)		3880 (4130)		
July 1948				470 (503)		498 (531)		0.29		8.52		2080 (2220)		2850 (3780)		

1/ Above-crest deposits to elevation 320'

* 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
315	1,222	33,482	270	254	4,174			
310	1,075	27,733	260	177	2,034			
300	778	18,515	250	87	745			
290	545	11,937	240	27	207			
280	382	7,330	230	8	40			
			220	1	1			

47. REMARKS AND REFERENCES

Region 7, Soil Conservation Service
U. S. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Portland, Oregon 49. DATE August 30, 1950