

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Sapulpa

NAME OF RESERVOIR

45-3

DATA SHEET NO.

DAM	1. OWNER <b>City of Sapulpa</b>			2. RIVER <b>Euchee Creek</b>			3. STATE <b>Oklahoma</b>				
	4. SEC. <b>30,31</b> TWP. <b>18N</b> RANGE <b>11E</b>			5. NEAREST TOWN <b>Sapulpa</b>			6. COUNTY <b>Creek</b>				
	7. STREAM BED ELEV. <b>690</b>			8. TOP OF DAM ELEV. <b>730</b>			9. SPILLWAY CREST ELEV. <b>723</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					1913					
	b. POWER										
	c. WATER SUPPLY	723	94.05	1,094	1,094	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION					1913					
	f. INACTIVE										
17. LENGTH OF RESERVOIR		2.72	MILES	AV. WIDTH OF RESERVOIR		MILES					
WATERSHED	18. TOTAL DRAINAGE AREA		8.72	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		37 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA		8.57	SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES				
	20. LENGTH		MILES	AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF			
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <b>Humid</b>						
	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		
Dec. 1913		-	-	-	-	94.05	1,094	125			
Dec. 1935		22.5	22.5	Range	47	91.44	911	104			
Dec. 1946		11.0	33.5	Detailed	52	90.87	842	97			
SURVEY DATA	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			
	Dec. 1935		183	8.13	0.949	183	8.13	0.949			
	Dec. 1946		69 (71)	6.27 (6.45)	0.732 (0.753)	252 (254)	7.52 (7.58)	0.877 (0.884)			
	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			
	Dec. 1935				0.74	16.72	-	-			
Dec. 1946				0.69	23.03	-	-				

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  
 Glymph, Louis M., Jr., and Jones, Victor H., Advance Report on the Sedimentation Survey of Lake Sapulpa, Sapulpa, Oklahoma, U. S. Soil Conserv. Serv. SCS-SS-7, 9pp., illus., processed. Washington, D. C., Aug. 1936.  
 Unpublished Report of Sediment in Lake Sapulpa, by Ross E. Rogers.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE Aug. 7, 1950  
 U. S. Dept. of Agriculture  
 Fort Worth, Texas