

RESERVOIR SEDIMENTATION
DATA SUMMARY

Pretty Water Lake
NAME OF RESERVOIR

45-12
DATA SHEET NO.

DAM	1. OWNER City of Sapulpa			2. RIVER Pretty Water Creek			3. STATE Oklahoma			
	4. SEC. 16 TWP. 18 N RANGE 11 E			5. NEAREST TOWN Sapulpa			6. COUNTY Creek			
	7. STREAM BED ELEV. 65*			8. TOP OF DAM ELEV. 105*			9. SPILLWAY CREST ELEV. 100*			
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					March 1936				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					March 1936				
	e. CONSERVATION	100	22	344	344					
	f. INACTIVE									
17. LENGTH OF RESERVOIR		.50	MILES	AV. WIDTH OF RESERVOIR		.08	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		2.43	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		37.3*	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		2.40	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH 2.25		MILES	AV. WIDTH 1.2		MILES	24. MEAN ANNUAL RUNOFF		AC.- FT.	
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				Humid	
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.		
	March 1936	-	-	-	-	22	344	142		
	Dec. 1946	10.75	10.75	Recon.	19 meas.	22	322	133		
	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. 1946	22	2.05	0.85	22	2.05	0.85			
	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. 1946	-	-	-	0.60	6.40	-	-			

* Assumed or estimated

25. 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
Reference: Unpublished Reconnaissance of Pretty Water Lake, Rogers, 1946.
Sediment in lower end of Lake is a smooth gray silt or gray sandy silt.
Sediment in upper end of lake contains more decayed humus.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE October 1950

U. S. Dept. of Agriculture
Fort Worth, Texas