

RESERVOIR SEDIMENTATION
DATA SUMMARY

Taft Lake

45-8

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER State of Oklahoma			2. RIVER Br. of Pecan Creek			3. STATE Oklahoma			
	4. SEC. 31,32 TWP. 15 RANGE 17			5. NEAREST TOWN Taft			6. COUNTY Muskogee			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.			
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					1937				
	b. POWER									
	c. WATER SUPPLY		54	580	580	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					1937				
	e. CONSERVATION									
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 0.43 MILES			18. AV. WIDTH OF RESERVOIR MILES						
	18. TOTAL DRAINAGE AREA 2.3 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 40* INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 2.2 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH MILES			24. AV. WIDTH MILES			25. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV.			25. 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.		
	Sept. 1937	-	-	-	-	54	580	252		
	Sept. 1947	10	10	Range Recon.	9	54	574	250		
	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			
	Sept. 1947	6.4	0.64	0.29	6.4	0.62	0.29			
	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		
Sept. 1947	-	-	-	0.11	1.1	-	-			

* Estimated

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															
<p>Unpublished Reconnaissance of Taft Lake, Sept. 1947.</p> <p>There are 3 small stock tanks located on an east side arm that amount to about 8 ac. surface area. These tanks serve as sediment traps, but were not built for that purpose.</p> <p>Sediment is mainly silt. Color varies from light to dark brown. Shore wash at end of ranges near dam is a yellowish sandy clay.</p>															
48. AGENCY SUPPLYING DATA															
Region 4, Soil Conservation Service ^{49.} DATE January 2, 1951 U. S. Dept. of Agriculture Fort Worth, Texas															