

RESERVOIR SEDIMENTATION
DATA SUMMARY

J. J. Harrison Lake

50-4

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER J. J. Harrison			2. RIVER Unnamed trib. to Washita			3. STATE Oklahoma			
	4. SEC. 30 TWP. 5 N RANGE 3 W			5. NEAREST TOWN Lindsay			6. COUNTY McClain			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. 9' above stream bed			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	-	47	349	349	Feb. 1932				
	b. POWER									
	c. WATER SUPPLY									
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN				
	e. CONSERVATION					Feb. 1932				
f. INACTIVE										
17. LENGTH OF RESERVOIR		0.33	MILES	AV. WIDTH OF RESERVOIR		0.24	MILES			
18. TOTAL DRAINAGE AREA		0.88	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		35*	INCHES			
19. NET SEDIMENT CONTRIBUTING AREA		0.81	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES			
20. LENGTH		1.9	MILES	AV. WIDTH		0.5	MILES		24. MEAN ANNUAL RUNOFF	AC.-FT.
21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION			Humid			
WATERSHED	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. 1932 March 1950	- 18	- 18	- Range Recon.	- 3	47 47	349 282	397 320		
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			
SURVEY DATA	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			
	March 1950	67.0	3.72	4.59	67.0	3.72	4.59			
SURVEY DATA	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			
	March 1950	-	-	-	1.07	19.20	-			

* 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
Reference: A Reconnaissance Investigation in J. J. Harrison Lake, J. A. Ogle, March 1950.
The sediment in the reservoir is dark reddish brown clay.
The lake is located at the base of a hill and diversion terraces carry side hill drainage to it to prevent flooding of fields.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE Aug. 3, 1950