

RESERVOIR SEDIMENTATION
DATA SUMMARY

Rogers Lake
NAME OF RESERVOIR

53-7a
DATA SHEET NO.

DAM	1. OWNER City of Rogers			2. RIVER Trib. of Little River			3. STATE Texas			
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Rogers			6. COUNTY Bell			
	7. STREAM BED ELEV. 82*			8. TOP OF DAM ELEV. 104*			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					Fall, 1922				
	b. POWER									
	c. WATER SUPPLY	100	23.1	164	164	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					Fall, 1922				
	e. CONSERVATION									
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 0.38 MILES			AV. WIDTH OF RESERVOIR 0.11 MILES						
	18. TOTAL DRAINAGE AREA 0.55 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 35 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.51 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH MILES		AV. WIDTH 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.		
	Fall, 1922 Sept. 1934	- 12	- 12	- Contour Detailed	- 2'	23.1 21.8	164 126.5	298 230		
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR			
	Sept. 1934	37.5	3.12	6.12	37.5	3.12	6.12			
	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. 1934				1.90	22.87				

* 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

47. REMARKS AND REFERENCES
Reference: Unpublished report on sedimentation in Rogers Municipal Reservoir.

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

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