

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Meridian Lake  
NAME OF RESERVOIR

53-13  
DATA SHEET NO.

DAM	1. OWNER Texas State Park Board			2. RIVER Bee Creek		3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Meridian		6. COUNTY Bosque		
	7. STREAM BED ELEV. 986			8. TOP OF DAM ELEV. 1,030		9. SPILLWAY CREST ELEV. 1,022		
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					1934		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	1,022	61	723	723	1934		
f. INACTIVE								
17. LENGTH OF RESERVOIR		0.68		MILES	AV. WIDTH OF RESERVOIR		0.17	
18. TOTAL DRAINAGE AREA		3.30		SQ. MI.	22. MEAN ANNUAL PRECIPITATION		31.3 #	
19. NET SEDIMENT CONTRIBUTING AREA		3.20		SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
20. LENGTH 2.6		MILES		AV. WIDTH 0.8	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.
	April 1934	-	-	-	-	61.0	723	219
	April 1948	14	14	Range Recon.	7	61.0	692	210
	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	
	April 1948	31	2.2	0.69	31	2.2	0.69	
	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
April 1948				0.3	4.3	-	-	

\* 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  
 Sedimentation in Meridian Lake, R. E. Rogers and C. C. Armes, April 1948.  
 (Unpublished)

Most of the sediment in Meridian Lake is a grayish black silt.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE January 2, 1951  
U. S. Dept. of Agriculture  
Fort Worth, Texas