

RESERVOIR SEDIMENTATION
DATA SUMMARY

Burke Neck Lake

51-3

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Corsicana			2. RIVER Unnamed trib. to Elm Creek		3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Corsicana		6. COUNTY Navarro		
	7. STREAM BED ELEV. 356			8. TOP OF DAM ELEV. 369		9. SPILLWAY CREST ELEV. 367		
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					1880		
	b. POWER							
	c. WATER SUPPLY	367	29	181	181	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					1880		
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.38 MILES			AV. WIDTH OF RESERVOIR 0.12 MILES				
	18. TOTAL DRAINAGE AREA 0.58 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 36 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.54 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH 1.3 MILES			AV. WIDTH 0.4 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.
	1880 Sept. 1949	- 69	- 69	- Range Detailed	- 3	29 29	181 92	312 159
	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. 1949	89	1.29	2.39	89	1.29	2.39	
	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. 1949				0.71	49.17	-	-	

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
 Jones, Victor H. and Ogle, James A., Report on Sedimentation in Lake Halbert Reservoir System, U. S. Soil Conservation Service, SCS-TP-92. 33 pp., illus., processed. Ft. Worth, Texas, May 1950.

The spillway elevation of Burke Neck Lake is the same as Lake Halbert which was constructed downstream from Burke Neck in 1921. The two lakes are joined when both are at crest but as this seldom occurs, they are considered separate lakes.

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

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