

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Halbert
NAME OF RESERVOIR

51-5
DATA SHEET NO.

DAM	1. OWNER City of Corsicana			2. RIVER Elm Creek			3. STATE Texas								
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Corsicana			6. COUNTY Navarro								
	7. STREAM BED ELEV. 327			8. TOP OF DAM ELEV. 376			9. SPILLWAY CREST ELEV. 367.0								
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										1921				
	b. POWER														
	c. WATER SUPPLY		367.0		593		8,012		8,012		16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION														
	e. CONSERVATION														
	f. INACTIVE										1921				
17. LENGTH OF RESERVOIR 2.21 MILES					AV. WIDTH OF RESERVOIR 0.42 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA 9.48 1/ SQ. MI.				22. MEAN ANNUAL PRECIPITATION 36.2 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 8.56 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES										
	20. LENGTH 6 MILES		AV. WIDTH 1.6 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.										
	21. MAX. ELEV. 490		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid										
	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.
1921 Sept. 1949		28		28		Range Detailed		18		593 593		8,012 6,657		845 702	
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		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		
	Sept. 1949		1355		48.4		5.66		1355		48.4		5.66		
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		67.4 (7)		8,308		8,308		0.60 16.91		-		-			

1/ Excludes area above 2 lakes in the watershed which contribute occasional flow to Lake Halbert.

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

Spillway level was raised to elev. 368 in Jan. 1950.

The values shown on this data sheet do not include Beaton and Burke Neck Lakes, located in the watershed.

The sediment is predominantly clay. The prevailing color is medium to dark gray.

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