

RESERVOIR SEDIMENTATION
DATA SUMMARY

NAME OF RESERVOIR

DAM	1. OWNER W. C. Harrison			2. RIVER Unnamed			3. STATE Texas									
	4. SEC. 4/ TWP. RANGE			5. NEAREST TOWN Canadian			6. COUNTY Hemphill									
	7. STREAM BED ELEV. 81.3			8. TOP OF DAM ELEV. 105.00			9. SPILLWAY CREST ELEV. 100.0									
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										5-14-1952					
	b. POWER															
	c. WATEL. SUPPLY		1/ 100.00		2.858		-		22.163		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE										5-14-1952					
WATERSHED	17. LENGTH OF RESERVOIR 2/ 0.250				MILES		AV. WIDTH OF RESERVOIR 0.018				MILES					
	18. TOTAL DRAINAGE AREA 0.237				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 23.00				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.237				SQ. MI.		23. MEAN ANNUAL RUNOFF 0.70				INCHES					
	20. LENGTH 0.512		MILES		AV. WIDTH 0.463		MILES		24. MEAN ANNUAL RUNOFF 37.33		AC.-FT.					
	21. MAX. ELEV. -		MIN. ELEV. -		25. CLIMATIC CLASSIFICATION sub-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.	
	5-14-52		-		-		-		-		2.858		22.163		93.51	
	4-16-58		5.93		5.93		Det. Range		6		2.858		21.706		91.586	
	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		d. MEAN ANNUAL		e. 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			
	4-16-58		0.457		0.077		0.325		0.457		0.077		0.325			
	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				
-		3/ 79.68		564.01		564.01		00.35		02.06		-				

1/ Assumed 2/ Includes 2 side arms of .045 and .063 miles.
 3/ See vol. rate ratio reverse side.
 4/ Sec. 85, Houston and Great Northern RR Co., Block MI Survey

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

C/I Ratio = (93.514 = 2.51) Est. trap efficiency = 100%.
 Sed load ac. ft. sq. mi./year adjusted for T.E.; 325 = .325
 Vol. wt. Ratio = 1.16, all samples exposed to air; dry pond.

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Stillwater, Oklahoma

49. DATE November 13, 1958