

RESERVOIR SEDIMENTATION
DATA SUMMARY

Hubbard City Lake (No. 1)

NAME OF RESERVOIR

53-8

DATA SHEET NO.

DAM	1. OWNER City of Hubbard			2. RIVER Tributary of East Cottonwood Creek		3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Hubbard		6. COUNTY Hill		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. 136.8^{1/}		
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					1898 ^{2/}		
	b. POWER							
	c. WATER SUPPLY	136.8	11	110	110	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE					1898		
WATERSHED	17. LENGTH OF RESERVOIR 0.2 MILES			AV. WIDTH OF RESERVOIR 0.08 MILES				
	18. TOTAL DRAINAGE AREA 0.5 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 36.3 (Est.) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.5 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.
	1898	-	-	-	-	11	110	220
	May 1949	51	51	Range Recon.	4	11	84	168
	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	
	May 1949	26	0.5	1.0	26	0.5	1.0	
	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	
May 1949				0.45	23.6	-	-	

1/ Local datum; elev. at date of survey.

2/ Dam raised in 1925. Capacity figure based on 1925 level.

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
 Report on Sedimentation in Hubbard City Lakes by J. A. Ogle and Ross E. Rogers, May 1949.
 The sediment is a gray to grayish black silty clay.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE October 1950
 U. S. Dept. of Agriculture
 Fort Worth, Texas