

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Fort Phantom Hill  
NAME OF RESERVOIR

54-6a  
DATA SHEET NO.

DAM	1. OWNER City of Abilene		2. RIVER Brazos (Elm Fork)		3. STATE Texas			
	4. SEC. TWP. RANGE		5. NEAREST TOWN Abilene		6. COUNTY Jones			
	7. STREAM BED ELEV. 1,560		8. TOP OF DAM ELEV. 1,645		9. SPILLWAY CREST ELEV. 1,632			
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					*		
	b. POWER					Oct. 18, 1938		
	c. WATER SUPPLY	1,632	4,246	76,966	76,966	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR 6			MILES	17. AV. WIDTH OF RESERVOIR 0.76		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 478		SQ. MI.	22. MEAN ANNUAL PRECIPITATION 25.17		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 268		SQ. MI.	23. MEAN ANNUAL RUNOFF Approx. 1.5		INCHES		
	20. LENGTH 44	MILES	20. AV. WIDTH 11	MILES	24. MEAN ANNUAL RUNOFF Approx. 21,440		AC.-FT.	
	21. MAX. ELEV. 2,525	MIN. ELEV. 1,560	25. CLIMATIC CLASSIFICATION Dry Subhumid					
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.
	Oct. 18, 1938	-	-	-	-	4,246	76,966	161
	Aug. 15, 1953	14.8	14.8	Range Detail	36	4,246	74,312	155
	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	
	Aug. 15, 1953	2,654	179.32	0.67	2,654	179.32	0.67	
	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
Aug. 15, 1953	35.99	525	525	0.23	3.45	-	-	

\* Has not been verified.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												

28. 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
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

48. AGENCY SUPPLYING DATA      SCS, Ft. Worth, Texas

49. DATE      Jan. 1954