

RESERVOIR SEDIMENTATION
DATA SUMMARY

Wills Point Reservoir

NAME OF RESERVOIR

51-14

DATA SHEET NO.

DAM	1. OWNER City of Wills Point			2. RIVER Magbee Creek		3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Wills Point		6. COUNTY Van Zandt		
	7. STREAM BED ELEV. 79*			8. TOP OF DAM ELEV. 106*		9. SPILLWAY CREST ELEV. 100*		
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					Sept. 1914		
	b. POWER							
	c. WATER SUPPLY	100	50.6	396	396	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE					Sept. 1914		
WATERSHED	17. LENGTH OF RESERVOIR 0.46 ^{1/} MILES			AV. WIDTH OF RESERVOIR 0.15 MILES				
	18. TOTAL DRAINAGE AREA 1.83 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 38.2 ^{2/} INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1.75 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH 1.7 MILES		AV. WIDTH 1.0 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.
	Sept. 1914 April 1938	- 23.6	- 23.6	- Range Detailed	- 23	50.6 49.3	396 275	216 150
	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	
	April 1938	121	5.13	2.93	121	5.13	2.93	
	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
April 1938	60.1 (9)	3,835	3,835	1.30	30.56	-	-	

* Assumed

1/ Main basin

2/ Based on gauges at Kaufman and Grand Saline, Texas

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
 Sediment is silty clay except in the upper reaches where it is a fine sandy silt.

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