

RESERVOIR SEDIMENTATION
DATA SUMMARY

Wolf Creek Reservoir

NAME OF RESERVOIR

51-19

DATA SHEET NO.

DAM	1. OWNER City of Palestine			2. RIVER Wolf Creek			3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Palestine			6. COUNTY Anderson		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.		
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			
	d. FLOOD CONTROL					1919			
	D. POWER								
	C. WATER SUPPLY		30	222	222	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION					1919			
	e. CONSERVATION								
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.76 MILES			AV. WIDTH OF RESERVOIR 0.07 MILES					
	18. TOTAL DRAINAGE AREA 2.55 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 40.7 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 2.50 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH 2.3 MILES		AV. WIDTH 1.1 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV. 650		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.	
	1919	-	-	-	-	30	222	87	
	April 1939	20	20	Recon.	23 meas.	30	199	78	
	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		
	April 1939	23	1.15	0.46	23	1.15	0.46		
	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 1939				0.52	10.4	-	-		

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
 Most of the sediment is gray to buff clay with small quantities of fine sand and considerable amounts of vegetal debris near the head of the lake.

Region 4, Soil Conservation Service
 U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Fort Worth, Texas 49. DATE January 1951