

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Gordon Country Club Lake  
NAME OF RESERVOIR

49 - 5  
DATA SHEET NO.

DAM	1. OWNER <b>Gordon Country Club</b>			2. RIVER <b>Ands Creek</b>			3. STATE <b>Texas</b>		
	4. SEC. <b>TWP. RANGE</b>			5. NEAREST TOWN <b>Paris</b>			6. COUNTY <b>Lamar</b>		
	7. STREAM BED ELEV. <b>515.0 M.S.L.</b>			8. TOP OF DAM ELEV. <b>537.7</b>			9. SPILLWAY CREST ELEV. <b>532.2</b>		
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. <del>DAM</del> Rec.	532.2	75.04	558	558	1898			
	c. WATER SUPPLY								
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN			
	e. CONSERVATION								
	f. INACTIVE					1898			
WATERSHED	17. LENGTH OF RESERVOIR <b>0.72 1/2</b> MILES			AV. WIDTH OF RESERVOIR <b>0.14</b> MILES					
	18. TOTAL DRAINAGE AREA <b>1.41</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>40</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.30</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>10.0</b> INCHES					
	20. LENGTH <b>1.03</b> MILES			AV. WIDTH <b>1.26</b> MILES			24. MEAN ANNUAL RUNOFF <b>533 ac. ft. / sq. mi. / yr.</b>		
	21. MAX. ELEV. <b>575.0</b>			MIN. ELEV. <b>515.0</b>			25. CLIMATIC CLASSIFICATION <b>Humid</b>		
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 <sub>w</sub> RATIO AC- FT. PER SQ. MI.	
	<b>Original-1898</b>	-	-	-	-	75	558	396	
	<b>June 24, 1959</b>	61	61	Detail Range	12	75	430	305	
	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		
	<b>June 24, 1959</b>	128	2.10	1.62	128	2.10	1.62		
	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		
<b>June 24, 1959</b>	33.14	1,169	1,169	0.38	22.94	--	--		

1/ North arm is 0.19 mile long.

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							
516	1	--													
520	7	14													
524	20	67													
528	43	193													
532	75	430													
47. REMARKS AND REFERENCES															
Average Land Use: Pasture 93%; Cultivated 7%.															
CI Ratio = 0.71															
Estimated Trap Efficiency = 97%															
Total Annual Sediment Load, Adjusted for Trap Efficiency = 1.67 ac.ft./sq.mi.															
Soil Conservation Service															
48. AGENCY SUPPLYING DATA Temple, Texas															
49. DATE October 27, 1959															