

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

SILVER LAKE

SOIL CONSERVATION SERVICE
53 - 37
DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER			2. RIVER N. E. Trib. of Leon			3. STATE Texas				
	4. SEC. TWP. RANGE		5. NEAREST TOWN Dublin			6. COUNTY Erath					
	7. STREAM BED ELEV. 1475.0			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 1494.3				
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
	6. FLOOD CONTROL										
	b. POWER										
	c. WATER SUPPLY		1494.3		23.2				153.8		16. DATE NORMAL OPER. BEGAN
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										1910
17. LENGTH OF RESERVOIR 0.3 MILES					AV. WIDTH OF RESERVOIR 0.12 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 0.37 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 30.80 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.334 SQ. MI.				23. MEAN ANNUAL RUNOFF 3.2 INCHES						
	20. LENGTH 1.03 MILES		AV. WIDTH 0.36 MILES		24. MEAN ANNUAL RUNOFF 170.7 ac. ft. sq. mi. - FT.						
	21. MAX. ELEV.		MIN. ELEV. 1475.0		25. CLIMATIC CLASSIFICATION Sub-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.			
	1910	-	-	-	-	23.2	153.8	415.7			
	7-19-1960	50	50	Range Detail	6	23.2	145.0	391.9			
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AQ- 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				
	7-19-1960	8.8	0.176	0.527	8.8	0.176	0.527				
	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 P P M				
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
7-19-1960				0.11	5.72						

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
1480	1.6	1.9	1490	13.7	67.3			
1482	3.1	6.5	1492	17.5	98.4			
1484	4.6	14.2	1494.3	23.2	145.0			
1486	7.1	25.8						
1488	10.5	43.2						

47. REMARKS AND REFERENCES
 Land Use: Cultivated = 83%; Pasture = 17%
 Average C/I Ratio = 2.4
 Estimated trap efficiency = 100%

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Temple, Texas

49. DATE July 22, 1960