

**RESERVOIR SEDIMENT
DATA SUMMARY**
SCS-34 Rev. 6-62

Century Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

49-9
DATA SHEET NO.

DAM	1. OWNER City of Sulphur Springs			2. STREAM Sulphur River			3. STATE Texas		
	4. SEC. _____		TWP. _____		RANGE _____		5. NEAREST TOWN Sulphur Springs		
	6. COUNTY Hopkins			7. STREAM BED ELEVATION 442.0			8. TOP OF DAM ELEVATION 461.5		
9. SPILLWAY CREST ELEV. 461.5			10. STORAGE ALLOCATION			11. ELEVATION TOP OF POOL			
RESERVOIR	12. ORIGINAL SURFACE AREA ACRES			13. ORIGINAL CAPACITY ACRE-FEET			14. GROSS STORAGE ACRE-FEET		
	15. DATE STORAGE BEGAN			16. DATE NORMAL OPER. BEGAN			17. LENGTH OF RESERVOIR 3.0 MILES		
	18. TOTAL DRAINAGE AREA 52.50 SQ. MI.			19. NET SEDIMENT CONTRIBUTING AREA 51.46 SQ. MI.			20. LENGTH 12 MILES		
	21. MAX. ELEV. 462.0			22. MEAN ANNUAL PRECIPITATION 39.6 INCHES			23. MEAN ANNUAL RUNOFF 10.0 INCHES		
	24. MEAN ANNUAL RUNOFF 280 AC.-F.T.			25. CLIMATIC CLASSIFICATION Humid			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.			34. PERIOD ANNUAL PRECIPITATION			35. PERIOD WATER INFLOW ACRE-FEET		
	36. WATER INFL. TO DATE AC.-FT.			37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET.		
WATERSHED	39. AV. DRY WGT. LBS. PER CU. FT.			40. SED. DEP. TONS PERSQ. MI.-YR.			41. STORAGE LOSS PCT.		
	42. SED. INFLOW PPM			43. PERIOD TOTAL			44. AV. ANNUAL		
	45. PERIOD TOTAL			46. AV. ANNUAL			47. PER SQ. MI.-YEAR		
	48. TOTAL TO DATE			49. AV. ANNUAL			50. PER SQ. MI.-YEAR		
	51. PERIOD TOTAL			52. AV. ANNUAL			53. PER SQ. MI.-YEAR		
SURVEY DATA	54. DATE OF SURVEY			55. PERIOD WATER INFLOW ACRE-FEET			56. WATER INFL. TO DATE AC.-FT.		
	57. PERIOD ANNUAL PRECIPITATION			58. MEAN ANNUAL			59. MAX. ANNUAL		
	60. PERIOD TOTAL			61. PERIOD TOTAL			62. TOTAL TO DATE		
	63. TOTAL TO DATE			64. PERIOD TOTAL			65. TOTAL TO DATE		
66. DATE OF SURVEY			67. PERIOD SEDIMENT DEPOSITS ACRE-FEET			68. TOTAL SED. DEPOSITS TO DATE ACRE-FEET.			
69. PERIOD TOTAL			70. AV. ANNUAL			71. PER SQ. MI.-YEAR			
72. TOTAL TO DATE			73. AV. ANNUAL			74. PER SQ. MI.-YEAR			
75. PERIOD TOTAL			76. AV. ANNUAL			77. PER SQ. MI.-YEAR			
78. DATE OF SURVEY			79. AV. DRY WGT. LBS. PER CU. FT.			80. SED. DEP. TONS PERSQ. MI.-YR.			
81. STORAGE LOSS PCT.			82. SED. INFLOW PPM			83. PERIOD TOTAL			
84. AV. ANNUAL			85. TOT. TO DATE			86. PERIOD TOTAL			
87. TOT. TO DATE			88. AV. ANNUAL			89. TOT. TO DATE			
90. PERIOD TOTAL			91. AV. ANNUAL			92. TOT. TO DATE			
93. TOT. TO DATE			94. PERIOD TOTAL			95. TOT. TO DATE			

*Estimate

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
446	0.2	0.1	461.5	667.1	2787.9			
448	0.9	1.0	463	781.6	3873.4			
450	4.8	6.2						
452	18.5	28.0						
454	81.6	120.7						
456	199.9	393.6						
458	356.2	942.5						
460	570.1	1860.9						

47. REMARKS AND REFERENCES
 Physiographic Area = Forested Coastal Plain
 Land Use: Pasture 90%; Cultivated 10%
 C/I Ratio = 0.100
 Estimated Trap Efficiency = 87%
 Total Annual Sediment Load, Adjusted for Trap Efficiency = 1.76Ac.Ft./Sq.Mi. per year.
 Note: Dam failed in early spring 1958 and was not repaired until August 1958.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Temple, Texas
 50. DATE January 24, 1963