

U.S. DEPARTMENT OF AGRICULTURE
RESERVOIR SEDIMENTATION
DATA SUMMARY

XQZ Ranch Pond

SOIL CONSERVATION SERVICE
54 - 8
DATA SHEET NO.

DAM		1. OWNER		2. RIVER		3. STATE	
		Dr. Lewis Jones		Trib. of S. Concho R.		Texas	
RESERVOIR		4. SEC.		5. NEAREST TOWN		6. COUNTY	
		TWP. RANGE		10 mi. S. San Angelo		Tom Green	
WATERSHED		7. STREAM BED ELEV.		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV.	
		81.0 <u>1/</u>		105.0 <u>1/</u>		100.0 <u>1/</u>	
RESERVOIR		10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES	
RESERVOIR		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN	
						May 1937	
RESERVOIR		16. DATE NORMAL OPER. BEGAN		17. LENGTH OF RESERVOIR		18. AV. WIDTH OF RESERVOIR	
				0.50 MILES		0.15 MILES	
RESERVOIR		19. NET SEDIMENT CONTRIBUTING AREA		20. LENGTH		21. MAX. ELEV.	
		1.53 SQ. MI.		MILES AV. WIDTH		MIN. ELEV.	
RESERVOIR		22. MEAN ANNUAL PRECIPITATION		23. MEAN ANNUAL RUNOFF		24. MEAN ANNUAL RUNOFF	
		18.8 (67) INCHES		1.45 INCHES		77 ac. ft. / sq. mi AC.-FT.	
RESERVOIR		25. CLIMATIC CLASSIFICATION		26. DATE OF SURVEY		27. PERIOD YEARS	
		Semi-arid		May 1937		18.2	
RESERVOIR		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.	
		18.2		Detail		4 ranges	
RESERVOIR		31. SURFACE AREA ACRES		32. CAPACITY ACRE- FEET		33. C/W RATIO AC.-FT. PER SQ. MI.	
		40.5		276		173	
RESERVOIR		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET		36. WATER INFL. TO DATE AC.-FT.	
RESERVOIR		37. PERIOD SEDIMENT DEPOSITS ACRE- FEET		38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.		39. AV. DRY WGT. LBS. PER CU. FT.	
						63.6 (2)	
RESERVOIR		40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM	
		1,288		0.52			
RESERVOIR		43. PERIOD		44. TOTAL TO DATE		45. PERIOD	
				1,288			
RESERVOIR		46. AV. ANNUAL		47. TOT. TO DATE		48. PERIOD	
				9.42			
RESERVOIR		49. PERIOD		50. TOT. TO DATE		51. PERIOD	
RESERVOIR		52. TOT. TO DATE		53. PERIOD		54. TOT. TO DATE	
SURVEY DATA		55. DATE OF SURVEY		56. PERIOD ANNUAL PRECIPITATION		57. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		58. DATE OF SURVEY		59. PERIOD ANNUAL PRECIPITATION		60. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		61. DATE OF SURVEY		62. PERIOD ANNUAL PRECIPITATION		63. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		64. DATE OF SURVEY		65. PERIOD ANNUAL PRECIPITATION		66. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		67. DATE OF SURVEY		68. PERIOD ANNUAL PRECIPITATION		69. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		70. DATE OF SURVEY		71. PERIOD ANNUAL PRECIPITATION		72. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		73. DATE OF SURVEY		74. PERIOD ANNUAL PRECIPITATION		75. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		76. DATE OF SURVEY		77. PERIOD ANNUAL PRECIPITATION		78. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		79. DATE OF SURVEY		80. PERIOD ANNUAL PRECIPITATION		81. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		82. DATE OF SURVEY		83. PERIOD ANNUAL PRECIPITATION		84. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		85. DATE OF SURVEY		86. PERIOD ANNUAL PRECIPITATION		87. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		88. DATE OF SURVEY		89. PERIOD ANNUAL PRECIPITATION		90. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		91. DATE OF SURVEY		92. PERIOD ANNUAL PRECIPITATION		93. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		94. DATE OF SURVEY		95. PERIOD ANNUAL PRECIPITATION		96. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		97. DATE OF SURVEY		98. PERIOD ANNUAL PRECIPITATION		99. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	
SURVEY DATA		100. DATE OF SURVEY		101. PERIOD ANNUAL PRECIPITATION		102. PERIOD SEDIMENT DEPOSITS ACRE- FEET	
		Aug. 9, 1955		26.0		26.0	

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 LENGH 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
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
 No ponds in watershed.
 Land Use: 100% pasture; 60% poor cover; 40% fair cover; 36% Soil Unit 2,
 64% - Soil Unit 24d.
 Average C/I ratio: 2.13
 Estimated trap efficiency: 98%
 Total annual sediment load, adjusted for trap efficiency: 0.95 ac.ft./sq.mi.

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Temple, Texas

49. DATE September 29, 1955