

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

Upper Reservoir  
Deep Creek Site 5  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

53-39  
DATA SHEET NO.

DAM	1. OWNER <b>John Alexander</b>				2. STREAM <b>Colorado</b>				3. STATE <b>Texas</b>					
	4. SEC.		TWP.		RANGE		5. NEAREST TOWN <b>Brady</b>				6. COUNTY <b>McCulloch</b>			
	7. STREAM BED ELEVATION <b>1125.0</b>				8. TOP OF DAM ELEVATION <b>1149.0</b>				9. SPILLWAY CREST ELEV. <b>1139.0</b>					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-FEET		14. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGAN			
	a. MULTIPLE USE													
	b. FLOOD CONTROL		<b>1139.0</b>		<b>2.9</b>		<b>15.2</b>		<b>15.2</b>		<b>8-12-53</b>			
	c. POWER													
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION													
	g. SEDIMENT													
	h. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR <b>0.23</b> MILES				AV. WIDTH OF RESERVOIR <b>0.02</b> MILES									
	18. TOTAL DRAINAGE AREA <b>2.19</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>22.3 (7.8)</b> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA <b>2.18</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.8</b> INCHES									
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF <b>210</b> AC.-FT.									
	21. MAX. ELEV.		MIN. ELEV. <b>1125.0</b>		25. CLIMATIC CLASSIFICATION <b>Subhumid</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/W RATIO AC.-FT. PER SQ. MI.					
	8-12-53		-	-	-	-	2.9	15.2	6.94					
	7-15-61		7.9	7.9	Range Detail	5	2.9	11.2	5.11					
	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						
	8-12-53		-	-	-	-	-	-	-					
	7-15-61		4.0	0.51	0.23	4.0	0.51	0.23						
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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE						
7-15-61		49.9	250.0	250.0	3.4	26.3								

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
1131.0	0.1	0.3	1137.0	2.0	6.4	1143.0	6.6	29.8
1133.0	0.6	1.3	1139.0	2.9	11.2			
1135.0	1.3	3.1	1141.0	4.6	18.7			

47. REMARKS AND REFERENCES  
 Land Use -- Rangeland 97%; Roads, Houses, and Cultivated 3%.  
 Physiographic Area - Palo Pinto Section  
 Geology: Cisco Group of Pennsylvanian Age and Trinity Group of Cretaceous Age.  
 C/I Ratio = 0.05 Estimated Trap Efficiency = 87%  
 Total Annual Sediment Load, Adjusted for Trap Efficiency - 0.26 Ac.Ft./Sq.Ml./Yr.

48. AGENCY MAKING SURVEY                      Soil Conservation Service  
 Temple, Texas

49. AGENCY SUPPLYING DATA

50. DATE 11/14/61