

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Lowrey Draw, Site No. 10

NAME OF RESERVOIR

56-6

DATA SHEET NO.

DAM	1. OWNER <b>Edwards Plateau C. D.</b>			2. STREAM <b>Trib. of Lowrey Draw</b>			3. STATE <b>Texas</b>					
	4. SEC. <b>TWP. RANGE</b>			5. NEAREST P.O. <b>6 mi. NE Sonora</b>			6. COUNTY <b>Sutton</b>					
	7. LAT. <b>30° 38' 12"N</b> LONG. <b>100° 35' 14"W</b>			8. TOP OF DAM ELEVATION <b>2268.0</b>			9. SPILLWAY CREST ELEV. <b>2258.6</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. FLOOD CONTROL		<b>2258.6</b>		<b>149.4</b>		<b>1770.0</b>		<b>1865.0</b>		<b>June 15, 1961</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										<b>June 15, 1961</b>	
	f. CONSERVATION											
	g. INACTIVE <b>1/</b>		<b>2235.4</b>		<b>21.5</b>		<b>95.0</b>		<b>95.0</b>			
17. LENGTH OF RESERVOIR <b>1.33</b> MILES					AV. WIDTH OF RESERVOIR <b>0.17</b> MILES							
18. TOTAL DRAINAGE AREA <b>8.43</b> SQ. MI.					22. MEAN ANNUAL PRECIPITATION <b>21.48 (45 yr)</b> INCHES							
19. NET SEDIMENT CONTRIBUTING AREA <b>8.20</b> SQ. MI.					23. MEAN ANNUAL RUNOFF <b>0.31 (8 yr)</b> INCHES							
20. LENGTH <b>5.19</b> MILES			AV. WIDTH <b>1.62</b> MILES		24. MEAN ANNUAL RUNOFF <b>139 (8 yr)</b> AC.-FT.							
21. MAX. ELEV. <b>2395</b>			MIN. ELEV. <b>2230</b>		25. ANNUAL TEMP: MEAN <b>66°F</b> RANGE <b>0° to 105°F</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/I. RATIO, AC.-FT. PER AC.-FT.			
	6-15-61						<b>21.5<sup>1/</sup></b>	<b>95.00<sup>1/</sup></b>	<b>0.68<sup>1/</sup></b>			
	3-13-69		<b>7.83</b>	<b>7.83</b>	<b>Contour (D)</b>	<b>2 CI</b>	<b>21.5<sup>1/</sup></b>	<b>94.38<sup>1/</sup></b>	<b>0.68<sup>1/</sup></b>			
	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			
	3-13-69		<b>20.56</b>		<b>139</b>	<b>872</b>	<b>1096</b>	<b>139</b>	<b>1096</b>			
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
	3-13-69		<b>0.62<sup>1/</sup></b>	<b>0.08<sup>1/</sup></b>	<b>0.01<sup>1/</sup></b>	<b>0.62<sup>1/</sup></b>	<b>0.08<sup>1/</sup></b>	<b>0.01<sup>1/</sup></b>				
	26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM			
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
3-13-69		<b>64</b>	<b>13.5<sup>1/</sup></b>	<b>13.5<sup>1/</sup></b>	<b>0.08<sup>1/</sup></b>	<b>0.65<sup>1/</sup></b>	<b>582<sup>1/</sup></b>	<b>582<sup>1/</sup></b>				

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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
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.
1961	2230.9	2222.7	68				
62	2225.2	2222.7	0				
63	2225.7	2222.7	4				
64	2244.7	2222.7	872				
65	2234.3	2222.7	85				
66	2224.6	2222.7	0				
67	2230.3	2222.7	54				
68	2228.4	2222.7	13				
69	2222.7	2222.7	0				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
<b>Original Capacity - 1961<sup>1/</sup></b>			2222.7	0.00	0.00	2224.0	0.20	0.07
2235.4	21.52	95.00	<b>1969 Capacity</b>			2223.3	0.00	0.00
2234.0	15.98	68.75	2235.4	21.52	94.38			
2232.0	11.40	41.37	2234.0	15.98	68.13			
2230.0	7.60	22.37	2232.0	11.40	40.75			
2228.0	4.91	9.86	2230.0	7.60	21.75			
2226.0	2.13	2.82	2228.0	4.91	9.24			
2224.0	0.42	0.27	2226.0	2.03	2.30			

47. REMARKS AND REFERENCES

<sup>1/</sup> Sediment pool only

Land Use in Watershed: 98 percent rangeland; 2 percent roads.

Published Reports: Sediment Yield from Rangeland Watersheds in the Edwards Plateau of Texas, Williams, J. R. and Knisel, W. G., Jr., ARS 41-185, October 1971, p. 9.

48. AGENCY MAKING SURVEY Blackland Conservation Research Center, Agric. Research Serv.  
 49. AGENCY SUPPLYING DATA Agricultural Research Service 50. DATE Jan. 13, 1972