

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Lowrey Draw, Site No. 13

NAME OF RESERVOIR

56-8

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>1 mi. E. Sonora</b>		6. COUNTY <b>Sutton</b>			
	7. LAT. <b>30° 33' 50N</b> LONG. <b>100° 37' 48W</b>		8. TOP OF DAM ELEVATION <b>2187.0</b>		9. SPILLWAY CREST ELEV. <b>2179.4</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>2179.4</b>	<b>33.9</b>	<b>273.7</b>	<b>330.0</b>	<b>June 15, 1961</b>	
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY						16. DATE NOR-MAL OPER. BEGAN	
	e. IRRIGATION						<b>June 15, 1961</b>	
	f. CONSERVATION							
	g. INACTIVE <b>1/</b>		<b>2165.4</b>	<b>7.5</b>	<b>56.3</b>	<b>56.3</b>		
WATERSHED	17. LENGTH OF RESERVOIR <b>0.42</b> MILES			AV. WIDTH OF RESERVOIR <b>0.13</b> MILES				
	18. TOTAL DRAINAGE AREA <b>1.07</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>21.48(45 yr)</b> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.02</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>0.30(8 yr)</b> INCHES				
	20. LENGTH <b>1.63</b> MILES		AV. WIDTH <b>0.66</b> MILES		24. MEAN ANNUAL RUNOFF <b>17.2 (8 yr)</b> AC.-FT.			
	21. MAX. ELEV. <b>2310</b>		MIN. ELEV. <b>2160</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.
	<b>6-15-61</b>					<b>7.5<sup>1/</sup></b>	<b>56.26<sup>1/</sup></b>	<b>3.28<sup>1/</sup></b>
	<b>3-11-69</b>	<b>7.74</b>	<b>7.74</b>	<b>Contour(D)</b>	<b>1 CI</b>	<b>7.5<sup>1/</sup></b>	<b>56.10<sup>1/</sup></b>	<b>3.26<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
	<b>3-11-69</b>	<b>20.27</b>		<b>17.2</b>	<b>52.6</b>	<b>138.3</b>	<b>17.2</b>	<b>138.3</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	
	<b>3-11-69</b>	<b>0.16<sup>1/</sup></b>	<b>0.02<sup>1/</sup></b>	<b>0.02<sup>1/</sup></b>	<b>0.16<sup>1/</sup></b>	<b>0.02<sup>1/</sup></b>	<b>0.02<sup>1/</sup></b>	
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
<b>3-11-69</b>	<b>64</b>	<b>28.2<sup>1/</sup></b>	<b>28.2<sup>1/</sup></b>	<b>0.04<sup>1/</sup></b>	<b>0.28<sup>1/</sup></b>	<b>1176</b>	<b>1176</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	-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.
1961	2155.3	2150.2	3				
62	2155.1	2150.2	7				
63	2154.1	2150.2	3				
64	2163.6	2150.2	53				
65	2160.0	2150.2	27				
66	2159.2	2150.2	20				
67	2152.9	2150.2	2				
68	2159.3	2150.2	23				
69	2151.9	2150.2	0				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity - 1961 <sup>1/</sup>			2157.0	3.84	8.08	2165.0	7.23	53.16
2165.4	7.47	56.26	2156.0	2.53	4.89	2164.0	6.80	46.14
2165.0	7.23	53.32	2155.0	1.67	2.79	2163.0	6.43	39.52
2164.0	6.80	46.30	2154.0	1.08	1.41	2162.0	6.09	33.26
2163.0	6.43	39.68	2153.0	0.60	0.57	2161.0	5.75	27.34
2162.0	6.09	33.42	2152.0	0.25	0.14	2160.0	5.32	21.80
2161.0	5.75	27.50	2151.0	0.02	0.01	2159.0	4.91	16.68
2160.0	5.32	21.96	2150.2	0.00	0.00	2158.0	4.38	12.03
2159.0	4.91	16.84	1969 Capacity			2157.0	3.84	7.92
2158.0	4.38	12.19	2165.4	7.47	56.10	2156.0	2.53	4.73
						2155.0	1.67	2.63
						2154.0	1.08	1.25
						2153.0	0.56	0.43
						2152.0	0.15	0.08
						2151.0	0.00	0.00

47. REMARKS AND REFERENCES 1/ 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