

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Lowrey Draw, Site No. 9

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

56-5

DATA SHEET NO.

DAM	1. OWNER Edwards Plateau C. D.			2. STREAM Lowrey Draw			3. STATE Texas					
	4. SEC. TWP. RANGE			5. NEAREST P.O. 9 mi. NE Sonora			6. COUNTY Sutton					
	7. LAT. 30° 40' 20N' LONG. 100° 33' 30W'			8. TOP OF DAM ELEVATION 2348.0			9. SPILLWAY CREST ELEV. 2343.8					
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		2343.8		86.0		558.9		590.0		June 15, 1961	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										June 15, 1961	
	f. CONSERVATION											
	g. INACTIVE 1/		2327.0		8.5		31.1		31.1			
WATERSHED	17. LENGTH OF RESERVOIR 0.55 MILES				AV. WIDTH OF RESERVOIR 0.24 MILES							
	18. TOTAL DRAINAGE AREA 2.77 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 21.48 (45 yr) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2.64 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.43 (8 yr) INCHES							
	20. LENGTH 2.22 MILES		AV. WIDTH 1.25 MILES		24. MEAN ANNUAL RUNOFF 64 (8 yr) AC.-FT.							
	21. MAX. ELEV. 2395		MIN. ELEV. 2320		25. ANNUAL TEMP: MEAN 66°F RANGE 0° to 105°F							
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						8.5 ^{1/}	31.1 ^{1/}	0.49 ^{1/}			
	2-4-69		7.65	7.65	Contour(D)	1 CI	8.5 ^{1/}	30.84 ^{1/}	0.48 ^{1/}			
	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			
	2-4-69		20.70		64	399	507	64	507			
	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				
	2-4-69		0.26 ^{1/}	0.03 ^{1/}	0.01 ^{1/}	0.26 ^{1/}	0.03 ^{1/}	0.01 ^{1/}				
	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					
2-4-69		64	17.5 ^{1/}	17.5 ^{1/}	0.104 ^{1/}	.84 ^{1/}	531	531				

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	2327.5	2317.6	69				
62	2320.3	2317.6	4				
63	2319.9	2317.6	4				
64	2335.0	2317.6	399				
65	2322.4	2317.6	7				
66	2320.6	2317.6	4				
67	2323.9	2317.6	19				
68	2319.3	2317.6	1				
69	2317.6	2317.6	0				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity - 1961 ^{1/}			2320.0	1.07	1.20	2324.0	4.49	11.75
2327.0	8.49	31.12	2319.0	0.56	0.38	2323.0	3.55	7.73
2326.0	6.99	23.38	2318.0	0.14	0.03	2322.0	2.65	4.63
2325.0	5.63	17.07	2317.6	0.00	0.00	2321.0	1.82	2.39
2324.0	4.49	12.01	1969 Capacity			2320.0	0.98	.99
2323.0	3.55	7.99	2327.0	8.49	30.86	2319.0	0.50	.25
2322.0	2.65	4.89	2326.0	6.99	23.12	2318.0	0.00	0.00
2321.0	1.82	2.65	2325.0	5.63	16.81			

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 Service

49. AGENCY SUPPLYING DATA Agricultural Research Service 50. DATE Jan. 13, 1972