

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-62

Blackwell Lake

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

52-15

DATA SHEET NO.

Unnamed trib. of Deer Creek,

DAM	1. OWNER W. A. Blackwell Estate			2. STREAM Guadalupe R. Basin			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Cuero			6. COUNTY DeWitt									
	7. STREAM BED ELEVATION 81.0*			8. TOP OF DAM ELEVATION 104.0*			9. SPILLWAY CREST ELEV. 100.0*									
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										9-2-49					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		100.0*		7.32		45.12		45.12		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT										9-2-49					
	h. INACTIVE															
17. LENGTH OF RESERVOIR 0.53 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES												
WATERSHED	18. TOTAL DRAINAGE AREA 2.76 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 34.21 (64) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 2.75 SQ. MI.				23. MEAN ANNUAL RUNOFF 5 INCHES											
	20. LENGTH 3.4 MILES		AV. WIDTH 0.81 MILES		24. MEAN ANNUAL RUNOFF 735 AC.-FT.											
	21. MAX. ELEV.				MIN. ELEV. 81.0*				25. CLIMATIC CLASSIFICATION Subhumid							
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.	
	9-249 <u>1/</u>		-		-		Contour		2'		7.32		45.12		16	
	6-2-64		14.75		14.75		"		"		7.32		41.51		15	
	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			
	6-2-64		3.61		0.24		0.09		3.61		0.24		0.09			
	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				
6-2-64		49.6		97		97		0.53		8.00						

1/ Original capacity determined by spudding on 1964 survey.

* Assumed.

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
	1964							
84	0.06	0.04	100	7.32	41.51			
86	0.25	0.33						
88	0.68	1.22		Original				
90	1.25	3.12	82	0.04	0.03	92	2.21	8.65
92	1.93	6.27	84	0.25	0.29	94	3.34	14.16
94	3.02	11.17	86	0.54	1.06	96	4.45	21.92
96	4.31	18.45	88	0.97	2.54	98	5.76	32.09
98	5.76	28.48	90	1.49	4.98	100	7.32	45.12

47. REMARKS AND REFERENCES
 Land Use: Pasture and rangeland 95%; cultivated 5%.
 Land Resource Area: Blackland
 C/I Ratio: 0.06
 Estimated trap efficiency: 80%.
 Total annual sediment load adjusted for trap efficiency: 0.11 Ac.Ft./Sq.Mi.-Yr.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Temple, Texas
 50. DATE 1-64