

RESERVOIR SEDIMENT  
DATA SUMMARY  
SCS-34 Rev. 6-66

Diversion Pond Above  
Site No. 8, Deep Creek Watershed  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

53-48

DATA SHEET NO.

DAM	1. OWNER <b>Lane</b>			2. STREAM <b>Trib. of Deep Creek</b>			3. STATE <b>Texas</b>												
	4. SEC. TWP. RANGE			5. NEAREST P.O. <b>Brady</b>			6. COUNTY <b>McCulloch</b>												
7. LAT <b>31° 22' 49" N</b> LONG <b>99° 08' 47" W</b>				8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. <b>1229.0</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. FLOOD CONTROL		1229.0		6.61		22.83		22.83		12-13-51								
	b. MULTIPLE USE																		
	c. POWER																		
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN								
	e. IRRIGATION																		
	f. CONSERVATION																		
g. INACTIVE										12-13-51									
17. LENGTH OF RESERVOIR				0.13		MILES		AV. WIDTH OF RESERVOIR				0.08		MILES					
WATERSHED	18. TOTAL DRAINAGE AREA				1.38		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				24.94 (19)		INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA				1.37		SQ. MI.		23. MEAN ANNUAL RUNOFF				2.30		INCHES				
	20. LENGTH		0.80		MILES		AV. WIDTH		1.72		MILES		24. MEAN ANNUAL RUNOFF				169.27		AC.-F.T.
21. MAX. ELEV.				MIN. ELEV.		1219.9		25. ANNUAL TEMP.: MEAN				64°F RANGE 48°F - 82°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.				
	12-13-51		--		--		Range-Contour (D)		5 R 2' CI		6.61		22.83		0.135				
	9-13-66		14.8		14.8						6.61		19.15		0.113				
	8-1-72		5.9		20.7						6.61		18.45		0.109				
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 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							
9-13-66		3.68		0.25		0.18		3.68		0.25		0.18							
8-1-72		0.70		0.12		0.09		4.38		0.21		0.15							
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							
9-13-66		-		-		-		1.10		16.2		-							
8-1-72		42.0*		79.20		141.30		0.92		19.19		-							

\*Assumed

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.								
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
1222	0.40	0.27													
1224	1.48	2.03													
1226	2.40	5.88													
1228	4.68	12.84													
1229	6.61	18.45													
47. REMARKS AND REFERENCES															
48. AGENCY MAKING SURVEY Soil Conservation Service															
49. AGENCY SUPPLYING DATA Temple, Texas															
50. DATE 2-73															

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DATA SHEET NO.

DAM	1. OWNER Lane		2. STREAM Trib. of Deep Creek		3. STATE Texas		
	4. SEC. TWP. RANGE		5. NEAREST P.O. Brady		6. COUNTY McCulloch		
	7. LAT 31° 22' 49" LONG 99° 08' 47"		8. TOP OF DAM ELEVATION 1236.2		9. SPILLWAY CREST ELEV. 1229.0		
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. FLOOD CONTROL	1229.0	6.61	22.83	22.83	12-13-51	
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						
	f. CONSERVATION						
g. INACTIVE							
17. LENGTH OF RESERVOIR		0.13 MILES	AV. WIDTH OF RESERVOIR		0.08 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		1.38 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 24.94 (19) INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		1.37 SQ. MI.		23. MEAN ANNUAL RUNOFF 2.30 INCHES		
	20. LENGTH 0.80 MILES		AV. WIDTH 1.72 MILES		24. MEAN ANNUAL RUNOFF 169.27 AC.-FT.		
	21. MAX. ELEV.		MIN. ELEV. 1219.9		25. ANNUAL TEMP.: MEAN 64° RANGE 48° - 82° F		
	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
12-13-51	-	-	Range- Contour (D)	5 R	6.61	22.83	0.14
9-13-66	14.8	14.8		2' CI	6.61	19.15	0.11
8-1-72	5.9	20.7			6.61	18.45	0.11
5-17-78	5.8	26.5			6.60	17.24	0.10
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 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	
5-17-78	1.24	0.21	0.16	5.59	0.21	0.15	
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
5-17-78	54 (4)	323.16	176.42	0.92	24.5		

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.							
46. 1978 ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
1222	0.20	0.13												
1224	1.36	1.54												
1226	2.25	5.09												
1228	4.51	11.72												
1229	6.60	17.24												
47. REMARKS AND REFERENCES														
48. AGENCY MAKING SURVEY    SCS, Temple, Texas 49. AGENCY SUPPLYING DATA    SCS, Temple, Texas														
													50. DATE    11-78	