

RESERVOIR SEDIMENT

DATA SUMMARY

CS-34 Rev. 6-66

Site No. 2, East Laterals of Trinity

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

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DATA SHEET NO.

DAM	1. OWNER Robinson		2. STREAM Trinity River		3. STATE Texas											
	4. SEC. TWP. RANGE		5. NEAREST P.O. Malakoff		6. COUNTY Henderson											
	7. LAT. 32° 06' 20" LONG. 95° 59' 04"		8. TOP OF DAM ELEVATION 327.0		9. SPILLWAY CREST ELEV. 322.0											
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		1/ 322.0		707.8		8671.4		9113.8		12-24-54					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										12-24-54					
	f. CONSERVATION															
	g. INACTIVE		2/ 300.0		119.9		442.4		442.4							
WATERSHED	17. LENGTH OF RESERVOIR				2.31 MILES				AV. WIDTH OF RESERVOIR				0.48 MILES			
	18. TOTAL DRAINAGE AREA				19.80 SQ. MI.				22. MEAN ANNUAL PRECIPITATION				37.09 (31) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				18.69 SQ. MI.				23. MEAN ANNUAL RUNOFF				9.0 INCHES			
	20. LENGTH		6.70 MILES		AV. WIDTH		2.96 MILES		24. MEAN ANNUAL RUNOFF				9503.4 AC.-FT.			
	21. MAX. ELEV.				MIN. ELEV.		284		25. ANNUAL TEMP: MEAN				66° FRANGE 37° - 95° 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.	
	12-24-54		-		-		Range-		42 R		707.80		9113.80		0.96	
	12-24-64		10.0		10.0		Contour		2' CI		707.80		9103.30		0.96	
	6-30-77		12.5		22.5		(D)				707.80		9065.37		0.95	
	12-24-54		-		-						119.90		442.40			
	12-24-64		10.0		10.0						119.90		431.90			
	6-30-77		12.5		22.5						118.09		414.53			
	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			
	6-30-77		37.93		3.03		0.16		48.43		2.15		0.12			
	6-30-77		17.37		1.39		0.07		27.87		1.24		0.07			
	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		
6-30-77		-		233.11		155.27		0.02		0.53						
6-30-77		37.2 Sed		59.65		56.72		0.28		6.30						
6-30-77		90.5 Det		173.46		98.55										

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. 1977 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
286.0	0.04	0.03	298.0	77.62	220.42	310.0	351.79	2653.07
288.0	2.17	1.70	300.0	118.09	414.53	312.0	419.17	3422.28
290.0	3.32	7.14	302.0	154.23	685.78	314.0	475.87	4315.83
292.0	9.21	19.17	304.0	194.69	1033.57	316.0	524.96	5315.26
294.0	18.53	46.35	306.0	244.00	1470.90	318.0	602.39	6440.60
296.0	40.75	104.13	308.0	296.60	2008.17	320.0	658.96	7700.27
						322.0	707.80	9065.37

47. REMARKS AND REFERENCES

1/ Total reservoir below emergency spillway crest elevation (322.0').

2/ Sediment pool only.

3/ Detention pool only.

Land Resource Area: Texas Claypan Area.

Geology: Wilcox Group (undivided) of Lower Eocene Age.

48. AGENCY MAKING SURVEY SCS, Temple, Texas

49. AGENCY SUPPLYING DATA SCS, Temple, Texas

50. DATE 1-78