

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Fress Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

56-4a
DATA SHEET NO.

DAM	1. OWNER Harold Fress			2. STREAM Trib. Devils River			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST TOWN 18 mi. SW Sonora			6. COUNTY Sutton									
	7. STREAM BED ELEVATION 95.0 ^{1/}			8. TOP OF DAM ELEVATION 104.0 ^{1/}			9. SPILLWAY CREST ELEV. 100.0 ^{1/}									
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										December 1944					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		100.0 ^{1/}		3.17		7.31		7.31		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT															
h. INACTIVE																
17. LENGTH OF RESERVOIR 0.21 MILES				AV. WIDTH OF RESERVOIR 0.025 MILES												
18. TOTAL DRAINAGE AREA 0.435 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 23.31 (25) INCHES												
19. NET SEDIMENT CONTRIBUTING AREA 0.430 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.45 INCHES												
20. LENGTH 0.75-0.37 MILES				AV. WIDTH 0.38 MILES				24. MEAN ANNUAL RUNOFF 77 ac.ft./sq.mi. ACR.FT.								
21. MAX. ELEV. 150 ^{1/}				MIN. ELEV. 95.0 ^{1/}				25. CLIMATIC CLASSIFICATION semi-arid								
WATERSHED	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.	
	Dec. 1944										3.17		7.31		16.8	
	Aug. 11, 1955		10.75		10.75		Detail		6 ranges		3.17		6.97		15.6	
	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			
	Aug. 11, 1955		0.34		0.032		0.074		0.34		0.032		0.074			
	26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. 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				
Aug. 11, 1955		69.6(2)		112		112		0.44		4.65						

^{1/} Local

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

47. REMARKS AND REFERENCES No ponds in watershed.
 Land Use: 100% pasture, 50% fair and 50% poor cover, Soil Unit 24C. All trees have been uprooted and left on surface.
 Average C/W ratio: .21.
 Estimated trap efficiency: 93%.
 Total annual sediment load, adjusted for trap efficiency: 0.12 ac.ft./sq.mi.

48. AGENCY MAKING SURVEY SCS
 49. AGENCY SUPPLYING DATA SCS, Temple, Texas
 50. DATE Sept. 15, 1955