

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

WARREN RANCH LAKE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

51-48

DATA SHEET NO.

DAM	1. OWNER John Warren Est., Inc.			2. STREAM Rock Hollow			3. STATE Texas							
	4. SEC. -- TWP. -- RANGE --			5. NEAREST P O Hockley			6. COUNTY Harris							
	7. LAT. 28° 59' 05" LONG. 95° 50' 30"			8. TOP OF DAM ELEVATION 205.0			9. SPILLWAY CREST ELEV. 200.0*							
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										1952			
	b. MULTIPLE USE		200.0		209.0		1132.0		1132.0					
	c. POWER													
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION										1952			
	f. CONSERVATION													
WATERSHED	17. LENGTH OF RESERVOIR 1.06 MILES AV. WIDTH OF RESERVOIR 0.31 MILES													
	18. TOTAL DRAINAGE AREA 3.42 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 45.95 (41) INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 3.09 SQ. MI.				23. MEAN ANNUAL RUNOFF 10.75 INCHES									
	20. LENGTH 5.70 MILES AV. WIDTH 0.60 MILES				24. MEAN ANNUAL RUNOFF 1960.68 AC. FT.									
	21. MAX. ELEV. 229				MIN. ELEV. 186.00				25. ANNUAL TEMP: MEAN 69°F RANGE 54°F - 84°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.	
	1952		--	--	Range -		18 R		209.0		1132.0		0.58	
	1971		19.0	19.0	(D)		2' CI		208.0		987.0		0.50	
	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	
	1971		145		7.63		2.47		145		7.63		2.47	
	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		
1971		38		2044.27		2044.27		0.67		12.81		--		

\*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
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
	1962			1971				
186	2.52	2.52	190	9.40	9.40			
188	8.40	13.44	192	39.00	57.80			
190	26.58	48.42	194	74.50	171.30			
192	54.44	129.44	196	108.47	354.27			
194	83.53	267.41	198	157.98	620.72			
196	120.83	471.77	200	207.95	986.65			
198	165.16	757.76						
200	209.01	1131.93						

47. REMARKS AND REFERENCES

Land Resource Area - Gulf Coastal Prairies

Geology - Willis Formation, Lower Quaternary Age

48. AGENCY MAKING SURVEY Sedimentation Survey Party

49. AGENCY SUPPLYING DATA Soil Conservation Service, Temple, Tex. DATE 6-71