

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

VAHLSING LAKE

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

52 - 19

DATA SHEET NO.

DAM	1. OWNER <b>F. H. Vahlsing Est.</b>			2. STREAM <b>Bayou Creek</b>			3. STATE <b>Texas</b>					
	4. SEC. -- TWP. -- RANGE --			5. NEAREST P. O. <b>Mathis</b>			6. COUNTY <b>San Patricio</b>					
	7. LAT. <b>28° 7' 00"</b> LONG. <b>97° 47' 00"</b>			8. TOP OF DAM ELEVATION <b>204.0</b>			9. SPILLWAY CREST ELEV. <b>200.0*</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										1953	
	b. MULTIPLE USE		200.0		88.17		519.63		519.63			
	c. POWER										16. DATE NORMAL OPER. BEGAN	
	d. WATER SUPPLY										1953	
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>1.32</b> MILES				AV. WIDTH OF RESERVOIR <b>0.10</b> MILES							
	18. TOTAL DRAINAGE AREA <b>13.86</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>30.60 (8)</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>13.72</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.50</b> INCHES							
	20. LENGTH <b>6.50</b> MILES		AV. WIDTH <b>2.13</b> MILES		24. MEAN ANNUAL RUNOFF <b>1108.73</b> AC.-F.T.							
	21. MAX. ELEV. <b>300.0</b>		MIN. ELEV. <b>180.0</b>		25. ANNUAL TEMP: MEAN <b>69°F</b> RANGE <b>56°F - 82°F</b>							
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.			
	1953		--	--	Range -	25 R	88.17	519.63	0.47			
	1971		18	18	Contour (D)	2' CI	86.57	459.95	0.41			
	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		59.68	3.32	0.24	59.68	3.32	0.24				
	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. TODATE	a. PERIOD	b. TOT. TODATE				
1971		51	266.59	266.59	0.64	11.49	--	--				

\*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
	1953		196	49.09	252.47	192	21.79	66.37
180	0.11	0.07	198	65.43	366.60	194	32.81	120.60
182	0.80	0.88	200	88.17	519.63	196	47.05	200.03
184	3.39	4.77	- - - -	- - - -	- - - -	198	63.65	310.31
186	6.55	14.54				200	86.57	459.95
188	11.26	32.14		1971				
190	17.27	60.45	186	2.30	1.53			
192	26.63	104.02	188	7.10	10.49			
194	36.65	167.03	190	13.83	31.05			

47. REMARKS AND REFERENCES

**Land Resource Area - Gulf Coastal Prairies**

48. AGENCY MAKING SURVEY Sedimentation Survey Party

49. AGENCY SUPPLYING DATA Soil Conservation Service, Temple, Tex. 50. DATE 6-71