

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

LAKE WINTERS

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

54- 12

DATA SHEET NO.

DAM	1. OWNER City of Winters		2. STREAM Elm Creek		3. STATE Texas					
	4. SEC. TWP. RANGE		5. NEAREST P.O. Winters		6. COUNTY Runnels					
	7. LAT. 31° 57' 10" LONG. 99° 52' 20"		8. TOP OF DAM ELEVATION 1801		9. SPILLWAY CREST ELEV. 1790					
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					10-45				
	b. MULTIPLE USE	1790	306.6	2518.2	2518.2					
	c. POWER					16. DATE NORMAL OPER. BEGAN				
	d. WATER SUPPLY									
	e. IRRIGATION									
	f. CONSERVATION					1-46				
	g. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR		2.02	MILES	AV. WIDTH OF RESERVOIR		0.24	MILES		
	18. TOTAL DRAINAGE AREA		63.62	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		22.63 (68)	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		63.14	SQ. MI.	23. MEAN ANNUAL RUNOFF		1.25	INCHES		
	20. LENGTH	14.62	MILES	AV. WIDTH	4.35	MILES	24. MEAN ANNUAL RUNOFF		4241	AC.-F.T.
	21. MAX. ELEV.		2301	MIN. ELEV.		1764	25. ANNUAL TEMP: MEAN 64°F RANGE 44°F - 83°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.		
	10-45	--	--	Range (D)	Eight Ranges	306.6	2518.2	0.59		
	7-70	24.75	24.75			306.6	1886.2	0.44		
	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			
7-70	632.0	25.54	0.40	632.0	25.54	0.40				
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				
7-70	39 (6)	340	340	1.01	25.0	--	--			

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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. 1970 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1772	0.18	0.18	1782	103.53	302.49			
1774	0.66	1.04	1784	129.72	539.52			
1776	1.93	3.67	1786	192.07	866.52			
1778	35.41	41.61	1788	255.19	1321.03			
1780	58.89	137.44	1790	306.6	1886.20			

47. REMARKS AND REFERENCES

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Sedimentation Survey Party - Texas
 50. DATE February 1971