

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Grand Saline Reservoir

51-9

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Grand Saline			2. RIVER Simmons Branch			3. STATE Texas																	
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Grand Saline			6. COUNTY Van Zandt																	
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.																	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN													
	a. FLOOD CONTROL										Feb. 1925													
	b. POWER																							
	c. WATER SUPPLY				64.5		531		531		16. DATE NORMAL OPER. BEGAN													
	d. IRRIGATION										Feb. 1925													
	e. CONSERVATION																							
	f. INACTIVE																							
WATERSHED	17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES											
	18. TOTAL DRAINAGE AREA				2.12				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				33.2 (11)				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				2.02				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES							
	20. LENGTH		2.0		MILES		AV. WIDTH		1.0		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.							
	21. MAX. ELEV.				MIN. ELEV.				25. CLIMATIC CLASSIFICATION								Humid							
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/W RATIO AC.-FT. PER SQ. MI.									
	Feb. 1925		-		-		-		-		64.5		531		250									
	April 1938		13.25		13.25		Range Detailed		23		64.5		509		240									
	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											
	April 1938		22		1.66		0.82		22		1.66		0.82											
	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. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE												
April 1938		38.7 (8)		691		691		0.31		4.14		-												

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

Region 4, Soil Conservation Service  
U. S. Dept. of Agriculture  
Fort Worth, Texas

48. AGENCY SUPPLYING DATA

49. DATE October 1950