

RESERVOIR SEDIMENTATION
DATA SUMMARY

Santa Anna Lake

53-2

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Municipal			2. RIVER Mud Creek			3. STATE Texas			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Santa Anna			6. COUNTY Coleman			
	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					May 1923				
	b. POWER									
	c. WATER SUPPLY		75.8	766	766	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					May 1923				
	f. INACTIVE									
17. LENGTH OF RESERVOIR			1	MILES	AV. WIDTH OF RESERVOIR		0.13	MILES		
WATERSHED	18. TOTAL DRAINAGE AREA			1.17	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			28	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA			1.05	SQ. MI.	23. MEAN ANNUAL RUNOFF				INCHES
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF			AG.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION					Sub-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.		
	May 1923 April 1940	- 17.0	- 17.0	- Range Detailed	- 11	75.8 75.8	766 745	655 637		
	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 1940	21	1.24	1.18	21	1.24	1.18			
	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 1940	45.2 (2)	1162	1162	0.16	2.74	-	-			

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
- 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
Reference: Unpublished Report of Sedimentation in Santa Anna Lake, by L. M. Glymph and V. H. Jones, 1940.
Sediment is light brown silt and clay in the lower part of the reservoir and brown sandy silt near its head.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE August 11, 1950
U. S. Dept. of Agriculture
Fort Worth, Texas