

RESERVOIR SEDIMENTATION
DATA SUMMARY

Old Santa Anna City Lake

NAME OF RESERVOIR

53-18

DATA SHEET NO.

DAM	1. OWNER City of Santa Anna		2. RIVER Mukewater 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 GREST 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		
	d. FLOOD CONTROL							
	b. POWER					Jan. 1910		
	c. WATER SUPPLY <u>1/</u>	100	21.2	153	153	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE					Jan. 1910		
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR				
WATERSHED	18. TOTAL DRAINAGE AREA		0.90	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			
	19. NET SEDIMENT CONTRIBUTING AREA		0.87	SQ. MI.	23. MEAN ANNUAL RUNOFF			
	20. LENGTH		1.0	MILES	24. MEAN ANNUAL RUNOFF			
	21. MAX. ELEV.				25. CLIMATIC CLASSIFICATION			
	MIN. ELEV.				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.
	Jan. 1910	-	-	-	-	21.2	153	170
	June 1940	30.5	30.5	Range Recon.	8	21.2	118	131
	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	
	June 1940	34.7	1.14	1.31	34.7	1.14	1.31	
	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	
June 1940				0.74	22.65	-	-	

1/ The Lake is not in use.
* Estimated

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
 Sedimentation Investigation of Sediment in Old Santa Anna Lake, June 1940.
 Unpublished data.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE January 2, 1951