RESERVOIR SEDIMENTATION DATA SUMMARY

Santa Rosa Lake

50 - 7 DATA SHEET NO.

	DATA SUMI				,						DAIR	SHEEL NO.	
Σ	DOWNER W. T.	. T. Waggoner Estate 2. RIVER Beaver Creek							3. STATE Texas				
DAR	4. SEC TV	RANGE -			REST TOW	Ver	rnon	6. COU	6 COUNTY Wilbarger				
	7.STREAM BED EL	EV.	- 66			OF DAM E	LEV.	107	LWAY CREST	AY CREST ELEV. 10141/			
	IO. STORAGE ALLOCATION	Т			SURFACE AREA ACRES		STORAGE ACRE - FEET		ACCUMULATED ACRE-FEET		DATE STORAGE BEGAN		
RVOIR	b. POWER	OL									0.0	et. 1929	
2	C. WATER SUPPLY	,	104		1,500		-	15.755	15	15,755		16. DATE NORMAL	
ESE	d. IRRIGATION							-23122	+ +/9	122	0	PER. BEGAN	
œ	CONSERVATION	1										0-1 7000	
	17. LENGTH OF RESERVOIR										Oct. 1929		
	<u> </u>		<u> 5.9</u>)			TH OF RESE		n body) MILES				
SHED	18. TOTAL DRAINA	336				MEAN ANNUAL PRECIPITATION 26 *							
ž	19. NET SEDIMENT					AN ANNUAL F		INCHES					
HER	20. LENGTH 3	MILESTAV	AV. WIDTH 10 MILES				AN ANNUAL I						
WAT	21. MAX. ELEV.		N. ELEV.				MATIC CLASS		Dub Hanita				
	DATE OF SURVEY	27, PERIOD YEARS	PERIOD 28. ACCL. 29. YEARS S		PE OF	PE OF SOL NO. OF RA		ANGES 31. SURFACE UR INT. AREA ACRES		32. CAPACITY ACRE-FEET		33. C/W RATIO AC-FT. PER SQ.MI.	
	Oct. 1929	_	-		_	_		1,423	2/ 15	15,755 <u>3</u> /		46.9	
	Jan. 1948	18.2	18.	1	nge con.	9		1,500	3/ 11			34-4	
	26. DATE OF	NNUAL	35. PERIOD WATER INFL				OW ACRE-FEET 36. WATER				INFL. TO DATE AG-FT.		
	SURVEY			G MEAN ANNUAL				C. PERIOD TO					
DATA													
	26. DATE OF	DATE OF 37. PERIOD SE				DIMENT DEPOSITS ACRE-			ED. DEPOS	DEPOSITS TO DA		TE ACRE-FEET	
Ē	SURVEY DERIOD TOTAL		TOTAL b	b. AV. ANNUAL		C. PER SQ.MI	-YEAR	YEAR " TOTAL TO DATE		E b. AV. ANNUAL		C.PER SQ.MI-YEAR	
SURVE	Jan. 1948			230		0.689		4,187		230		0.689	
					·						,		
i	26. DATE OF	AV. DRY WGT. LBS. PER CU, FT. a.			ED DEP. TONS PER SQ.				,	LOSS PCT. 42. SED.			
	SURVEY			a. PERIOD		b. TOTAL TO	DATE GAV. ANNUAL D		TOT. TO DATE O. PERIO		D	b. TOT. TO DATE	
İ	Jan. 1948	3 –		-		-	į	1.5	2 6. 6	6.6		-	

^{*} Assumed

^{1/} Spillway raised 2 ft. 2/ At original spillway elevation of 102 ft.

26.	43.	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
DATE OF														
SURVEY	 	Р	ERCENT	OF TOT	AL SED	IMENT	LOCATE	D WITH	IN DEPT	H DESIGN	OITAN	N		
26. DATE OF SURVEY	44. 0-i0	REAC	H DESIG	NATION 30 40-50	PERCE1	IT OF T	OTAL OF	RIGINAL	_ LENGI	OF RES	SERVI	OIR -120	-125	
45.				RANGE	IN RESE	RVOIR	OPERAT	ION						
WATER YEA	R MAX.	ELEV.	MIN. ELE				RYEAR	MAX. E	AX. ELEV. MIN. ELEV			. INFLOW AC-FT.		
								ATA						
46.						EA-CAI	PACITY D							
ELEVATION	AREA	AREA CAPACITY		LEVATION	I AF	REA	CAPACIT	Y EI	EVATION	AREA	<u> </u>	CAPA	TY	
	·			-	,	,								
47. REMARK	S AND R	EFEREN	CES											

3/ Surface area was increased to about 1,525 acres when spillway was raised. This has decreased somewhat due to sedimentation. The raised spillway had relatively small effect upon storage capacity.

Reference: Reconnaissance Investigation of Sediment in Santa Rosa Lake by V. H. Jones, October 1948. (Unpublished)

The bulk of the sediment in Santa Rosa Lake is red clay and silt.

Region 4, Soil Conservation Service DATE August 3, 1950 48. AGENCY SUPPLYING DATA U. S. Dept. of Agriculture