

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Merritt

NAME OF RESERVOIR

53-4

DATA SHEET NO.

DAM	1. OWNER <b>Santa Fe Railway Co.</b>			2. RIVER <b>Browne Creek</b>			3. STATE <b>Texas</b>				
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN <b>Goldthwaite</b>			6. COUNTY <b>Mills</b>				
	7. STREAM BED ELEV. <b>1,480</b>			8. TOP OF DAM ELEV. <b>1,510</b>			9. SPILLWAY CREST ELEV. <b>1,505.5</b>				
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 1917					
	b. POWER										
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION										
	e. CONSERVATION	<b>1,505.5</b>	<b>98.1</b>	<b>962</b>	<b>962</b>						
	f. INACTIVE							May 1917			
17. LENGTH OF RESERVOIR			<b>1</b>	MILES	AV. WIDTH OF RESERVOIR		<b>0.15</b>	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA			<b>11.65</b>	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			<b>28</b>	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			<b>11.50</b>	SQ. MI.	23. MEAN ANNUAL RUNOFF				INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF				AC.-FT.
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION			<b>Sub-humid</b>	
	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.			
<b>May 1917 May 1940</b>	<b>- 23</b>	<b>- 23</b>	<b>- Range Detailed</b>	<b>- 12</b>	<b>98.1 98.1</b>	<b>962 855</b>	<b>83 73</b>				
SURVEY DATA	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				
<b>May 1940</b>	<b>107</b>	<b>4.65</b>	<b>0.40</b>	<b>107</b>	<b>4.65</b>	<b>0.40</b>					
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				
<b>May 1940</b>	<b>43 (4)</b>	<b>375</b>	<b>375</b>	<b>0.48</b>	<b>11.12</b>	<b>-</b>	<b>-</b>				

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 August 14, 1950