

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Baker Lake

SOIL CONSERVATION SERVICE
52 - 7
DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER Mr. Baker			2. RIVER Trib. of San Antonio			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST TOWN 2 mi N. Somerset			6. COUNTY Bexar									
	7. STREAM BED ELEV. 85.0 1/			8. TOP OF DAM ELEV. 106.0 1/			9. SPILLWAY CREST ELEV. 100.0 1/									
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										Sept. 16, 1950					
	b. POWER															
	c. WATER SUPPLY		100.0 1/		46.4		251		251		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
17. LENGTH OF RESERVOIR 0.42				MILES				AV. WIDTH OF RESERVOIR 0.26				MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 3.17				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 27.93 (80)				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 3.10				SQ. MI.				23. MEAN ANNUAL RUNOFF 2.50				INCHES			
	20. LENGTH				MILES				AV. WIDTH				MILES			
	24. MEAN ANNUAL RUNOFF 133 ac. ft. / sq. mi. ac.-ft.															
	21. MAX. ELEV. 200 1/				MIN. ELEV. 85.0 1/				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.	
	Sept. 16, 1950										46.4		251		79.2	
	Aug. 30, 1955		4.95		4.95		Detail		5 ranges		46.4		228		71.9	
	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		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
	Aug. 30, 1955		23.0		4.65		1.50		23.0		4.65		1.50			
	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		c. PERIOD		d. TOT. TO DATE				
Aug. 30, 1955		34.65 (2)		1,132		1,132		1.85		9.16						

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															
<p>No ponds in watershed</p> <p>Land Use: 74% cultivated; 26% pasture; pasture, 100% poor cover. 17% of watershed soil unit 2, 83% soil unit 6.</p> <p>Average C/I ratio: 0.57</p> <p>Estimated trap efficiency: 97%</p> <p>Total annual sediment load, adjusted for trap efficiency: 1.55 ac.ft./sq.mi.</p> <p style="text-align: center;">Soil Conservation Service</p>															
48. AGENCY SUPPLYING DATA Temple, Texas										49. DATE Sept. 14, 1955					