

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Taneycomo

NAME OF RESERVOIR

44-5

DATA SHEET NO.

DAM	1. OWNER Empire Dist. Elec. Co.			2. RIVER White River			3. STATE Missouri			
	4. SEC. 5 TWP. 23N RANGE 20W			5. NEAREST TOWN Branson			6. COUNTY Taney			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 697.1			
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					March 1913				
	b. POWER	697.1	2,414	43,980	43,980					
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					March 1913				
	f. INACTIVE									
17. LENGTH OF RESERVOIR 20.11			MILES			AV. WIDTH OF RESERVOIR			MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 4,610			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 43			INCHES
	19. NET SEDIMENT CONTRIBUTING AREA 4,606			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 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.		
	March 1913	-	-	-	-	2,414	43,980	9.54		
	August 1935	22.4	22.4	Range Detailed	67	1,860	23,714	5.14		
	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			
	August 1935	20,266	904.7	0.196	20,266	904.7	0.196			
	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			
August 1935				2.06	46.08					

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
 1. Kesler, T.L. Advance report on the sedimentation survey of Lake Taneycomo, Taney County, Missouri. Soil Conserv. Serv. SCS-SS-8, Washington, D.C., Sept. 1936.
 2. Harbeck, G.E. Jr. Reservoirs in the U.S., U.S. Dept. of Interior, Washington, D.C., March 1948.
 Soundings also made at about 37 locations in June 1944 by Empire District Electric Co. Some dredging done in early '40's. 24" to 36" splash boards used in some seasons. This form checked and revised by G.W. Grey, Supt. of Plant and Production Empire District Electric Co., Joplin, Mo.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service 49. DATE May 10, 1950
 U. S. Dept. of Agriculture, Milwaukee, Wis.