

RESERVOIR SEDIMENTATION
DATA SUMMARY

Leavenworth County State Lake

NAME OF RESERVOIR

31-6

DATA SHEET NO.

DAM	1. OWNER State of Kansas			2. RIVER Unnamed tributary			3. STATE Kansas									
	4. SEC. 35, 36 TWP. 10S RANGE 20E			5. NEAREST TOWN Tonganoxie			6. COUNTY Leavenworth									
	7. STREAM BED ELEV. 810.0			8. TOP OF DAM ELEV. 873.0			9. SPILLWAY CREST ELEV. 867.0									
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. 1931					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION		867.0		175		3916		3916		Sept. 1931					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 1.0, 0.91/						MILES AV. WIDTH OF RESERVOIR 0.15 MILES									
	18. TOTAL DRAINAGE AREA 3.83				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 34.98 (45) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3.56				SQ. MI.				23. MEAN ANNUAL RUNOFF 5.6 (14) INCHES							
	20. LENGTH 1.5		MILES		AV. WIDTH 2		MILES		24. MEAN ANNUAL RUNOFF 1058 (14) AG.-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.	
	Sept. 1931		-		-		-		-		175		3916		1023	
	Nov. 5, 1947		16.1		16.1		Range Detailed		17		166		3771		985	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG.-FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		d. MEAN ANNUAL		e. TOTAL TO DATE			
	Nov. 5, 1947		34.48		1058		2525		17,034		1058		17,034			
	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			
	Nov. 5, 1947		145		9.01		2.53		145		9.01		2.53			
	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		
Nov. 5, 1947		61.45 (10)		3386		3386		0.23		3.70		8383		8383		

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
 Hansen, O.C., Steps, W.E., and Gottschalk, L.C. Sedimentation survey of Leavenworth County State Lake, Tonganoxie, Kansas. U.S. Soil Conserv. Serv. 22 pp., illus., processed. Lincoln, Nebraska, March 1949.

1/ Eastern arm is approximately 1 mile long, the western arm is about 0.9 mile long.

Region 5, Soil Conservation Service
 U. S. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Lincoln, Nebraska

49. DATE May 25, 1951