

RESERVOIR SEDIMENTATION
DATA SUMMARY

Ottawa County State Lake

NAME OF RESERVOIR

32-1

DATA SHEET NO.

DAM	1. OWNER State of Kansas			2. RIVER Sand Creek			3. STATE Kansas									
	4. SEC. 8 TWP. 11S RANGE 2W			5. NEAREST TOWN Bennington			6. COUNTY Ottawa									
	7. STREAM BED ELEV. 1291			8. TOP OF DAM ELEV. 1327			9. SPILLWAY CREST ELEV. 1321									
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										April 1929					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										April 1929					
	e. CONSERVATION		1321		134		1001		1001							
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 2.10 1/				MILES				AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA 20.47				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 25.94 (45)				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 20.26				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 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.	
	1929		-		-		-		-		134		1001		48.9	
	April 1937		8.0		8.0		Range Detailed		24		134		930		45.4	
	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			
	April 1937		71.0		8.88		0.438		71.0		8.88		0.438			
	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		
April 1937								0.89		7.09						

1/ To head of lake. Reservoir composed of two arms.

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
 Flaxman, E.H. and Barnes, L.H. Advance report on the sedimentation survey of Ottawa County State Lake, Bennington, Kansas. U.S. Soil Conserv. Serv., SCS-SS-18, 10 pp., illus., processed. Washington, D.C. November 1937.

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

48. AGENCY SUPPLYING DATA

49. DATE January 3, 1951