

Lyon County State Lake  
(Reading Lake)

RESERVOIR SEDIMENTATION  
DATA SUMMARY

31-7

Comm.

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Kans. Forestry, Fish &amp; Game</b>			2. RIVER			3. STATE <b>Kansas</b>		
	4. SEC <b>14, 15</b> TWP. <b>17S</b> RANGE <b>12E</b>			5. NEAREST TOWN <b>Reading</b>			6. COUNTY <b>Lyon</b>		
	7. STREAM BED ELEV. <b>1107*</b>			8. TOP OF DAM ELEV. <b>1155*</b>			9. SPILLWAY CREST ELEV. <b>1150*</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					1935			
	b. POWER								
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION								
	e. CONSERVATION	<b>1150</b>		<b>135</b>	<b>1889</b>	<b>1889</b>	1935		
f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR <b>0.85</b> MILES			AV. WIDTH OF RESERVOIR			MILES		
	18. TOTAL DRAINAGE AREA <b>2.19</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>34.10 (45)</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.79 1/2</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>5.5*</b> INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF <b>551*</b> AG.-FT.				
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <b>Humid</b>				
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.	
	<b>1935</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>135</b>	<b>1889</b>	<b>863</b>	
	<b>August 1939</b>	<b>4.0</b>	<b>4.0</b>	<b>Recon.</b>	<b>33 meas.</b>	<b>135</b>	<b>1870</b>	<b>854</b>	
	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	a. MEAN ANNUAL	b. TOTAL TO DATE		
	<b>August 1939</b>	<b>33.08</b>							
	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		
	<b>August 1939</b>	<b>19.5</b>	<b>4.88</b>	<b>2.73</b>	<b>19.5</b>	<b>4.88</b>	<b>2.73</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>August 1939</b>	<b>60*</b>	<b>3568</b>	<b>3568</b>	<b>0.26</b>	<b>1.03</b>				

\* Assumed

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/ Excluding area of lake and 0.31 sq. mi. above stock pond.

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

48. AGENCY SUPPLYING DATA \_\_\_\_\_ 49. DATE May 25, 1951