

RESERVOIR SEDIMENTATION  
DATA SUMMARY

(Lake Larrabee)  
Meade County State Lake

NAME OF RESERVOIR

46-5

DATA SHEET NO.

DAM	1. OWNER State of Kansas			2. RIVER Stump Arroya			3. STATE Kansas			
	4. SEC. 14-15 TWP. 33S RANGE 29W			5. NEAREST TOWN Meade			6. COUNTY Meade			
	7. STREAM BED ELEV. 2438 (Approx.)			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.			
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					June 1928				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION			100	891	891	June 1928			
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 0.8 (Approx.) MILES			18. AV. WIDTH OF RESERVOIR MILES						
	18. TOTAL DRAINAGE AREA 18.00 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 19.75 (45) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 17.84 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 GLASSIFICATION Semi-arid					
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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.		
	June 1928	-	-	-	-	100	891	49.5		
	Apr. 13, 1937	8.8	8.8	Range Detailed	15	97	819	45.5		
	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			
	Apr. 13, 1937	17.14								
	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			
	Apr. 13, 1937	72	8.18	0.459	72	8.18	0.459			
	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			
Apr. 13, 1937	60*	600	600	0.92	8.08					

\* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	69-71	71-73	73-75	75-77	77-79	79-81	81-83	83-85	85-87	87-89	89-91	91-93	93-95
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Apr. 13, 1937	1.31	5.05	11.74	17.62	15.02	11.57	8.91	7.25	4.86	8.22	6.05	2.36	0.04

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/ The data shown are the results of the survey as computed by the range method. One foot contours were drawn from the range spuddings and the survey was also computed by this method.

Item 43 was computed from contour data adjusted to the range method data.

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

48. AGENCY SUPPLYING DATA \_\_\_\_\_ 49. DATE January 3, 1951