

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Bennington's Lake

NAME OF RESERVOIR

46-4

DATA SHEET NO.

DAM	1. OWNER H. L. Bennington			2. RIVER Chikaskia			3. STATE Kansas					
	4. SEC. 14 TWP. 30S RANGE 7W			5. NEAREST TOWN Rago			6. COUNTY Kingman					
	7. STREAM BED ELEV. 100.0*			8. TOP OF DAM ELEV. 117.0*			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					August 1, 1929						
	b. POWER					16. DATE NORMAL OPER. BEGAN						
	c. WATER SUPPLY					August 1, 1929						
	d. IRRIGATION											
	e. CONSERVATION			11.6	75	75						
f. INACTIVE												
17. LENGTH OF RESERVOIR			MILES			AV. WIDTH OF RESERVOIR			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 1.42 1/			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 25.94 (45)			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 1.40 1/			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH			MILES			AV. WIDTH			MILES		
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION			Subhumid		
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.				
	Aug. 1, 1929	-	-	-	-	11.6	75	52.8				
	Oct. 8, 1940	11.2	11.2	Range Detailed	19	7.2	33	23.2				
	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					
	Oct. 8, 1940	42 (55) 2/	3.75 (4.91)	2.68 (3.51)	42.0 (55)	3.75 (4.91)	2.68 (3.51)					
	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				
Oct. 8, 1940	69.47 (8)	4055 (5311)	4055 (5311)	5.00	56.0							

\* 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
	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	
<u>1/</u> Taken from stereoscopic study of drainage area photos <u>2/</u> Above-crest deposits within original flow line.	
48. AGENCY SUPPLYING DATA	49. DATE
Region 5, Soil Conservation Service U. S. Dept. of Agriculture Lincoln, Nebraska	May 25, 1951