

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Prairie Lake  
NAME OF RESERVOIR

31-31  
DATA SHEET NO.

DAM	1. OWNER City of Holton, Kansas			2. RIVER Unnamed Tributary			3. STATE Kansas			
	4. SEC. NE 16 TWP. 6 S RANGE 15 E			5. NEAREST TOWN Holton			6. COUNTY Jackson			
	7. STREAM BED ELEV. 1000*			8. TOP OF DAM ELEV. 1035*			9. SPILLWAY CREST ELEV. 1030*			
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					1947				
	b. POWER									
	c. WATER SUPPLY	1030*	59.0	721.7	721.7	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					1947				
17. LENGTH OF RESERVOIR 0.8 MILES			AV. WIDTH OF RESERVOIR 0.4 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 1.49 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 35* INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1.40 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 2.0 MILES			AV. WIDTH 0.75 MILES			24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION			
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.		
	1947 October 1955	- 8.0	- 8.0	- Range	- 8	59.0 57.7	721.7 653.1	484.4 436.3		
	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			
	October 1955	68.6	8.57	6.12	68.6	8.57	6.12			
	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			
October 1955	54.3	7197	7197	1.19	9.5					

\* 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

48. AGENCY SUPPLYING DATA **SOIL CONSERVATION SERVICE**

49. DATE \_\_\_\_\_