

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

Berger Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

46- 35

DATA SHEET NO.

DAM	1. OWNER Berger		2. STREAM Trib to Pawnee River		3. STATE Kansas			
	4. SEC. NW20 TWP. 23 RANGE 24W		5. NEAREST P. O. Jetmore		6. COUNTY Hodgeman			
	7. LAT 38° 02' 38" LONG. 100° 01' 33"		8. TOP OF DAM ELEVATION 100.00*		9. SPILLWAY CREST ELEV. 97.00*			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					March 1952		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY	97.00*	5.30	18.55	18.55			
	e. IRRIGATION					March 1952		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR			0.33 MILES	AV. WIDTH OF RESERVOIR		0.04 MILES		
WATERSHED		18. TOTAL DRAINAGE AREA		3.00 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		20.00 INCHES	
		19. NET SEDIMENT CONTRIBUTING AREA		3.00 SQ. MI.	23. MEAN ANNUAL RUNOFF		0.40 INCHES	
		20. LENGTH	2.30 MILES	AV. WIDTH	1.30 MILES	24. MEAN ANNUAL RUNOFF		61 AC.-FT.
21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP.: MEAN			56 RANGE -26 to 110	
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/I. RATIO, AC.-FT. PER AC.-FT.
	August 22 1967	15.5	15.5	Range	8	5.30	Original 18.55 Present 12.95	.29 .20
	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 CAPACITY LOSS, 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	
	August 22 1967	5.60	0.36	0.12	5.60	0.36	0.12	
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
August 22 1967	60*	156	156	1.94	30.19			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

* Assumed

Pasture (good) = 55% with 2 - 4% slopes
 Cropland = 45% with 0 - 1% slopes
 T.E. = 75%
 Watershed yield = 0.16 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service
 50. DATE August 22, 1967