

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Johnson Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

31-58

DATA SHEET NO.

DAM	1. OWNER Paul Hyson			2. STREAM Trib to Little Sugar			3. STATE Kansas					
	4. SEC. 27 TWP. 22 RANGE 22E			5. NEAREST P.O. Blue Mound			6. COUNTY Linn					
	7. LAT 38° 06' 16" LONG 94° 58' 34"			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										1936	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER										1936	
	d. WATER SUPPLY		97.00*		5.00		24.03		24.03			
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.20 MILES				AV. WIDTH OF RESERVOIR 0.06 MILES							
	18. TOTAL DRAINAGE AREA 0.94 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 39.00 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.93 SQ. MI.				23. MEAN ANNUAL RUNOFF 9.00 INCHES							
	20. LENGTH 1.61 MILES		AV. WIDTH 0.58 MILES		24. MEAN ANNUAL RUNOFF 446 AC.-FT.							
	21. MAX. ELEV. 1,090.00		MIN. ELEV. 1,040.00		25. ANNUAL TEMP: MEAN 57 RANGE -26 to 107							
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.		
	July 18 1967		31	31	Range	5	5.00	Original 24.03 Present 17.30		0.050 0.039		
	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		
	July 18 1967		6.73	0.22	0.24	6.73		0.22		0.24		
	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				
July 18 1967		60*	313	313	0.92	28.0						

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	-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

* Assumed

Pasture:

Good - 4%	} 6% slopes
Fair - 23%	
Poor - 8%	

Cropland - 65% } 2-3% slopes w/6% applied cons.

T. E. = 67%, watershed yield = 0.34 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A. Soil Conservation Service

50. DATE August 11, 1967