

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Hall Pond  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

31-57

DATA SHEET NO.

DAM	1. OWNER John Hall			2. STREAM Trib to Little Sugar			3. STATE Kansas							
	4. SEC. 10 TWP. 21 RANGE 23			5. NEAREST P.O. Farlinville			6. COUNTY Linn							
	7. LAT. 38° 14' 21" LONG. 94° 52' 32"			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										Feb. 1955			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY		97.00*		5.50		46.22		46.22		16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION										Feb. 1955			
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR 0.25 MILES			AV. WIDTH OF RESERVOIR 0.04 MILES										
	18. TOTAL DRAINAGE AREA 0.38 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 39.00 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 0.37 SQ. MI.			23. MEAN ANNUAL RUNOFF 9.00 INCHES										
	20. LENGTH 1.00 MILES			AV. WIDTH 0.38 MILES			24. MEAN ANNUAL RUNOFF 182 AC.-F.T.							
	21. MAX. ELEV.			MIN. ELEV.			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 19 1967		12	12	Range		6		5.50		Original 46.22 Present 42.87		0.25 0.24	
	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 19 1967		3.35	0.28	0.76	3.35	0.28	0.76						
	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 19 1967		60*	993	993	0.61	7.25								

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 (poor) = 49% w/5-7% slopes  
 Forest = 41% w/ 12% slopes  
 Cropland = 10% w/2% slopes  
 T.E. = 88%

Watershed Yield = 0.86 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A, Soil Conservation Service 50. DATE August 14, 1967