

RESERVOIR SEDIMENT  
DATA SUMMARY

Scott Brown Dam

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

33 - 22

DATA SHEET NO.

DAM	1. OWNER Scott Brown			2. STREAM Sappa Creek			3. STATE Kansas																					
	4. SEC. 11 TWP. 5-S RANGE 31-W			5. NEAREST P.O. Rexford, KS			6. COUNTY Rawlins																					
	7. LAT. 39° 37' 30" LONG. 100° 47' 30"			8. TOP OF DAM ELEVATION 100.0			9. SPILLWAY CREST ELEV. 96.0																					
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										12/60																	
	b. MULTIPLE USE																											
	c. POWER																											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN																	
	e. IRRIGATION																											
	f. CONSERVATION						9.63		9.63		12/60																	
	g. INACTIVE																											
WATERSHED	17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES															
	18. TOTAL DRAINAGE AREA				1.98				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				19.5				INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA				1.98				SQ. MI.				23. MEAN ANNUAL RUNOFF				0.25				INCHES							
	20. LENGTH				MILES				AV. WIDTH				MILES				24. MEAN ANNUAL RUNOFF				26.40				AC.-F.T.			
	21. MAX. ELEV.				MIN. ELEV.								25. ANNUAL TEMP: MEAN				RANGE											
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.													
	12/60		0		0		-		-		0.93		9.63		0.37													
	7/19/72		11.6		11.6		Range (D)		4		0.93		0.90		0.03													
	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															
	7/19/72		8.73		0.75		0.38		8.73		0.75		0.38															
	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																
7/19/72		70*		579.5		579.5		7.82		90.65																		

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  39% Cropland - 2% slope 61% Rangeland - 10% slope, good T.E. - 98%														
48. AGENCY MAKING SURVEY				Project CARLA				49. AGENCY SUPPLYING DATA			Soil Conservation Service			
										50. DATE <u>7-31-72</u>				