

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Earl Brown Stockwater Dam

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

33 - 17

DATA SHEET NO.

DAM	1. OWNER Earl Brown				2. STREAM Beaver Creek		3. STATE Kansas							
	4. SEC. 26 TWP. 3-S RANGE 34-W		5. NEAREST P.O. Atwood, KS		6. COUNTY Rawlins									
	7. LAT. 39° 45' 45" LONG 101° 05' 00"				8. TOP OF DAM ELEVATION 103.0		9. SPILLWAY CREST ELEV. 100.0							
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										4/61			
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN			
	c. POWER										4/61			
	d. WATER SUPPLY													
	e. IRRIGATION													
	f. CONSERVATION						15.19		15.19					
g. INACTIVE														
17. LENGTH OF RESERVOIR					MILES		AV. WIDTH OF RESERVOIR					MILES		
WATERSHED	18. TOTAL DRAINAGE AREA				0.99 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				18.5 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				0.99 SQ. MI.		23. MEAN ANNUAL RUNOFF				0.25 INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				13.20 AC. FT.	
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN				RANGE					
	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.					
4/61		0	0	-	-	3.18	15.19	1.15						
7/20/72		11.3	11.3	Range (D)	4	3.18	12.59	0.95						
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						
SURVEY DATA	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						
	7/20/72		2.6	0.23	0.23	2.6	0.23	0.23						
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						
7/20/72		70*	354.3	354.3	1.52	17.12								

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														
<p>10% Cropland, 47% lct., 2% slope 90% Rangeland, fair, 8% slope T.E. = 98%</p>														
48. AGENCY MAKING SURVEY				Project CARLA										
49. AGENCY SUPPLYING DATA				Soil Conservation Service				50. DATE 7-31-72						