

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Bear Creek Watershed, Site A-2
NAME OF RESERVOIR

25-20

DATA SHEET NO.

DAM	1. OWNER G. B. Thomas			2. STREAM Bear Creek			3. STATE Missouri									
	4. SEC. 30 TWP. 65N RANGE 10W			5. NEAREST P. Corin 4½ mi. NW			6. COUNTY Scotland									
	7. LAT. 40° 24 '45N" LONG. 92° 5 '30W"			8. TOP OF DAM ELEVATION 735.3			9. SPILLWAY CREST ELEV. 732.5									
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		732.5		143		846.6		1068		11/01/67					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION															
g. INACTIVE		722.9		42		221.4		221.4		11/11/67						
17. LENGTH OF RESERVOIR				1.06 1/		MILES		AV. WIDTH OF RESERVOIR				0.21 MILES				
18. TOTAL DRAINAGE AREA				4.11		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				33.42 INCHES				
19. NET SEDIMENT CONTRIBUTING AREA				3.89		SQ. MI.		23. MEAN ANNUAL RUNOFF				5.5 INCHES				
20. LENGTH		2.68		MILES		AV. WIDTH		1.53		MILES		24. MEAN ANNUAL RUNOFF		1205.5 AC.-FT.		
21. MAX. ELEV. 785				MIN. ELEV. 708.9				25. ANNUAL TEMP. MEAN 50.4° RANGE -18° to 105°								
WATERSHED	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.	
	11/01/67										42.0 2/		221.4 2/ 1068.4 3/		.18 2/ .89 3/ .14 2/ .84 3/	
	08/25/75		7.8		7.8		Contour (R)		2' (CI)		143.0 3/		171.7 2/ 1018.3 3/			
SURVEY DATA	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			
	08/25/75		42.07		-----NO 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				
08/25/75 2/		49.7		6.37		1.64		49.7		6.37		1.64				
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				
08/25/75 2/		56.4		2014		2014		2.9 2/ .6 3/		22.5 2/ 4.7 3/		-----NO DATA-----				

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	710-712	712-714	714-716	716-718	718-720	720-722	722.9-								
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
08/25/75	1	13	20	26	24	16									
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														
-----NO DATA-----															
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.								
-----NO DATA-----															
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
Original Capacity - 1967			1975 Capacity												
712	1.65	.44	712	0	0										
714	6.28	7.88	714	2.58	.95										
716	14.03	27.69	716	7.76	10.83										
718	21.81	63.27	718	15.14	33.34										
720	31.00	115.84	720	25.95	73.97										
722.9	42.04	221.38	722.9	42.04	171.66										
47. REMARKS AND REFERENCES															
1/ This reservoir has two major arms.															
2/ Sediment pool only.															
3/ Total reservoir below emergency spillway elevation (732.5').															
Land use and erosion yield is reported in an unpublished SCS report.															
48. AGENCY MAKING SURVEY Missouri Watershed Planning Party, Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 7/20/76															