

RESERVOIR SEDIMENT DATA SUMMARY

Lost Creek #1 (Lost Lake)
NAME OF RESERVOIR

24- 60
DATA SHEET NO.

DAM	1. OWNER <u>Glosier Brothers</u>		2. STREAM <u>Lost Creek</u>		3. STATE <u>Missouri</u>			
	4. SEC. 2 <u>TWP. 50N RANGE 2E</u>		5. NEAREST P.O. <u>Elsberry 4 NE</u>		6. COUNTY <u>Lincoln</u>			
	7. LAT. <u>39° 7' 3" LONG. 90° 49' 1"</u>		8. TOP OF DAM ELEVATION <u>635</u>		9. SPILLWAY CREST ELEV. <u>630</u>			
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		630	29.2	228	307	4/25/56	
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE 1/		617	11.8	79	79	3/57	
17. LENGTH OF RESERVOIR			.34		MILES		AV. WIDTH OF RESERVOIR	
							.134	
							MILES	
WATERSHED	18. TOTAL DRAINAGE AREA			1.05		SQ. MI.		22. MEAN ANNUAL PRECIPITATION
								37.5 (29 yrs.)
	19. NET SEDIMENT CONTRIBUTING AREA			1.004		SQ. MI.		23. MEAN ANNUAL RUNOFF
								8.9
								INCHES
20. LENGTH		1.48	MILES	AV. WIDTH	.71	MILES	24. MEAN ANNUAL RUNOFF	
							498	
							AC.-FT.	
21. MAX. ELEV.		940		MIN. ELEV.		603		25. ANNUAL TEMP: MEAN 54°F RANGE -16°F to 108°F
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.
	4-25-56	-	-	-	-	29.2 ^{2/} 11.8 ^{1/}	307 ^{2/} 79 ^{1/}	.62 ^{2/} .16 ^{1/}
	9-13-76	20.4	20.4	Contour (D)	10 (R) 2' (CI)	29.2 ^{2/} 11.1 ^{1/}	292 ^{2/} 64 ^{1/}	.59 ^{2/} .13 ^{1/}
	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
	9-13-76	37.87		-	-	-	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	
	9-13-76	15	.74	.73	15	.74	.73	
	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	
9-13-76	50	797 ^{2/} 776 ^{1/}	797 ^{2/} 776 ^{1/}	.24 ^{2/} .94 ^{1/}	4.89 ^{2/} 18.99 ^{1/}			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	17-16	16-14	14-12	12-10	10-09	09-08	08-07	07-04							
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
9-13-76	5	14	19	14	6	10	12	20							
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														
		2	14	20	26	34	4	0	0	0					
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							
Original Condition			1976 Survey												
605	.71	.14													
606	1.61	1.26													
607	2.74	3.39	607	1.01	1.30										
608	4.09	6.75	608	2.25	1.87										
609	4.50	11.19	609	3.85	4.85										
610	5.86	16.51	610	5.07	9.25										
612	7.96	30.24	612	6.52	20.87										
614	9.54	47.80	614	8.20	35.63										
616	10.81	68.24	616	10.04	53.93										
617	11.78	79.42	617	11.12	64.40										
47. REMARKS AND REFERENCES															
1/ Sediment pool.															
2/ Total reservoir below emergency spillway elevation (630).															
Land use - Forest 73%, Pasture 24%, Cropland 1%, Water 2%															
48. AGENCY MAKING SURVEY Missouri Watershed Planning Party - SCS						50. DATE 5/18/78									
49. AGENCY SUPPLYING DATA USDA-SCS															