

RESERVOIR SEDIMENTATION
DATA SUMMARY

Six Mile Creek No. 2

44 - 10

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Wm. Maegerlein			2. RIVER Shaver Creek			3. STATE Arkansas									
	4. SEC. 23 & 24 TWP. 7 N RANGE 27 W			5. NEAREST TOWN Caulksville			6. COUNTY Logan									
	7. STREAM BED ELEV. 484.0			8. TOP OF DAM ELEV. 539.5			9. SPILLWAY CREST ELEV. 534.0									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL		534.0		74.96		1304.41		1613.93		10-22, 1954					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION		507.2		26.24		309.52		309.52		10-22-1954					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.89 1/2				MILES				AV. WIDTH OF RESERVOIR .13				MILES			
	18. TOTAL DRAINAGE AREA 5.38				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 49.41				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 5.26				SQ. MI.				23. MEAN ANNUAL RUNOFF 12				INCHES			
	20. LENGTH 4.2		MILES		AV. WIDTH 1.28		MILES		24. MEAN ANNUAL RUNOFF 640 ¹¹ = 1 sq.mi. AC.-FT.							
	21. MAX. ELEV. 980				MIN. ELEV. 484				25. CLIMATIC CLASSIFICATION Humid							
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 _w RATIO AC.-FT. PER SQ. MI.	
	4/ 10-22-1954		-		-		Range Detail		15		74.96		1613.93		300	
	" 7-12-1961		6.67		6.67		"		"		74.96		1608.15		299	
	3/ 10-22-1954		-		-		"		4		26.24		309.52		58	
	" 7-12-1961		6.67		6.67		"		"		26.24		301.01		56	
	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		d. MEAN ANNUAL		b. TOTAL TO DATE		
	26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE- FEET						38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.							
			a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		d. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
7-12-1961 2/		5.78		0.87		.17		5.78		.87		.17				
7-12-1961 1/		0.27		0.04		.01		.27		.04		.01				
7-12-1961 3/		8.51		1.28		.24		8.51		1.28		.24				
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 P PM						
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
2/ 7-12-1961								.05		.36						
4/ 7-12-1961								.003		.02						
3/ 7-12-1961								.05		.34						

1/ Does not include side arm of .3 miles length

2/ Both sed. and flood pools.

3/ Sed. pool.

4/ Flood pool.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

28. 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
534.0	74.96	1648.24	506.0	25.51	278.47			
530.0	64.45	1332.70	502.0	20.69	187.55			
526.0	57.17	1091.08	498.0	15.93	115.45			
522.0	49.93	876.46	494.0	11.77	59.47			
518.0	44.28	687.97	490.0	6.58	27.70			
514.0	36.82	525.81	486.0	2.69	3.43			
510.0	31.19	389.84						
507.2	26.24	302.80						

47. REMARKS AND REFERENCES
 Land Use: Cropland 1.5%; Woodland 66.7%; Grassland 31.8%.

Soil Conservation Service

July 1961

48. AGENCY SUPPLYING DATA

49. DATE _____