

RESERVOIR SEDIMENTATION
DATA SUMMARY

Six Mile Creek No. 5

44 -11

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Jack Corley			2. RIVER Little Caney Cr.			3. STATE Arkansas			
	4. SEC. 31 , TWP. 7N , 6N RANGE 27W			5. NEAREST TOWN Caulksville ,			6. COUNTY Logan			
	7. STREAM BED ELEV. 468.0			8. TOP OF DAM ELEV. 510.5			9. SPILLWAY CREST ELEV. 505.5			
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	505.5	59.30	639.02	860.98	1/				
	b. POWER					12/3/54				
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION	489.2	21.08	221.96	221.96	1/				
	f. INACTIVE					12/3/54				
WATERSHED	17. LENGTH OF RESERVOIR 0.68 2/			MILES			AV. WIDTH OF RESERVOIR .14 MILES			
	18. TOTAL DRAINAGE AREA 1.90			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 49.41 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 1.81			SQ. MI.			23. MEAN ANNUAL RUNOFF 12 INCHES			
	20. LENGTH 2.25 MILES			AV. WIDTH 0.84 MILES			24. MEAN ANNUAL RUNOFF 640" per sq. mi. AC.-FT.			
	21. MAX. ELEV. 1050.0			MIN. ELEV. 468.0			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.		
	3/ Dec. 3, 1954	-	-	Range	16	59.30	860.98	453		
	July 20, 1961	6.63	6.63	Detail	"	"	854.63	450		
	4/ Dec. 3, 1954	-	-	"	7	21.08	221.96	117		
	Jul 20, 1961	6.63	6.63	"	"	"	215.77	114		
	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 SEDIMENT DEPOSITS 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			
	Jul 20, 1961	6.35	0.96	0.53	6.35	0.96	0.53			
" " "	0.16	0.02	0.01	0.16	0.02	0.01				
" " "	6.19	0.93	0.51	6.19	0.93	0.51				
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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
5/ Jul 20, 1961				0.11	0.74					
3/ " " "				0.002	0.02					
4/ " " "				0.11	0.72					

1/ Computed from end areas. See attached sheet for contour survey.
 2/ Side arm not included - It is 0.28 mi.
 3/ Flood Pool 4/ Sed. Pool 5/ Both sed. and flood pools.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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	-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
6/ 505.5	59.30	860.98	470.0	1.91	3.20			
502.0	48.90	633.40						
498.0	37.36	461.10						
6/ 494.0	28.31	330.90						
489.2	21.08	221.96						
486.0	17.32	152.20						
482.0	12.98	90.90						
478.0	8.82	47.30						
474.0	5.33	18.60						

47. REMARKS AND REFERENCES
 Land Use: Cropland, 3.4%; Grassland 31.2%; Woodland 65.4%.

48. AGENCY SUPPLYING DATA Soil Conservation Service

49. DATE July, 1961

6/ Capacity computed from end area.