

RESERVOIR SEDIMENTATION DATA SUMMARY

Six Mile Creek No. 23

44 - 12

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Paul King &amp; C O Teague</b>			2. RIVER <b>Trib to Hurricane Cr</b>		3. STATE <b>Arkansas</b>		
	4. SEC <b>20&amp;21</b> TWP. <b>8N</b> RANGE <b>28W</b>			5. NEAREST TOWN <b>Peter Pender</b>		6. COUNTY <b>Franklin</b>		
	7. STREAM BED ELEV. <b>412.0</b>			8. TOP OF DAM ELEV. <b>442.7</b>		9. SPILLWAY CREST ELEV. <b>436.0</b>		
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	436.0	155.33	913.33	989.25	1/	July, 1955	
	b. POWER							
	c. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION							
	e. CONSERVATION	422.3	20.70	75.92	75.92	1/	July, 1955	
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR <b>1.36</b> 2/ MILES			14. AV. WIDTH OF RESERVOIR <b>.18</b> MILES				
	18. TOTAL DRAINAGE AREA <b>4.16</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>49.41</b> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <b>3.91</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>12</b> INCHES				
	20. LENGTH <b>2</b> MILES; AV. WIDTH <b>2.08</b> MILES			24. MEAN ANNUAL RUNOFF <b>640"/mi.</b> AC.-FT.				
	21. MAX. ELEV. <b>500.0'</b>		MIN. ELEV. <b>412.0'</b>		25. CLIMATIC CLASSIFICATION <b>Humid</b>			
3 4 Ju	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.
	July, 1955	-	-	Range Detail	30	155.33	989.25	238
	July 26, 1961	6.00	6.00	"	"	"	933.27	236
	July, 1955	-	-	"	8	20.70	75.92	18
	July, 26, 1961	6.00	6.00	"	"	"	70.64	17
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	
14/3/5	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	
	July 26, 1961	5.98	1	.26	5.98	1	.28	
"	.70	.12	.03	.70	.12	.12		
"	5.28	.88	.23	5.28	.88	.88		
14/3/5	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
	July 26 1961		Sediment not deep enough to sample		.10	.60		
"				.01	.07			
"				.09	.53			

1/ Computed from end areas. See attached sheet for contour survey.

2/ Side arm not included - It is .34 mi.

3/ Flood Pool 4/ Sed. Pool

.5/ Both Sed Pool and 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													

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
436.0	155.33	989.25						
432.0	91.90	564.43						
428.0	55.76	272.00						
424.0	27.38	112.12						
422.3	20.70	75.92						
418.0	7.10	15.44						
414.0	1.11	1.19						

47. REMARKS AND REFERENCES  
 Land Use: Cropland, 18.5%; Woodland, 3.1%; Grassland, 78.4%.

48. AGENCY SUPPLYING DATA      Soil Conservation Service      49. DATE      July, 1961

6 Capacity used is calculated from end area.