

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Cove Lake

NAME OF RESERVOIR

44-8

DATA SHEET NO.

DAM	1. OWNER Forest Service			2. RIVER Arkansas (Trib.)			3. STATE Arkansas			
	4. SEC. 27 TWP. 6N RANGE 25W			5. NEAREST TOWN Paris			6. COUNTY Logan			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.			
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					May 1938				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. <del>MAXIMUM</del> Rec.		152	2205.57	2205.57					
17. LENGTH OF RESERVOIR 0.89 MILES			AV. WIDTH OF RESERVOIR 0.31 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 10.90 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 43 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 10.66 SQ. MI.			23. MEAN ANNUAL RUNOFF Approx. 13 INCHES						
	20. LENGTH 4 MILES		AV. WIDTH 2 MILES		24. MEAN ANNUAL RUNOFF Approx. 7,391 AC.-FT.					
	21. MAX. ELEV.		MIN. ELEV.		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. %W RATIO AC.-FT. PER SQ. MI.		
	May 1938	-	-	-	-	152	2206	207		
	Dec. 3, 1953	15.5	15.5	Recon.	5 ranges	152	2141	201		
	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		e. 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		e. AV. ANNUAL		f. PER SQ. MI.-YEAR	
	Dec. 3, 1953	64.63	4.17	0.39	64.63		4.17		0.39	
	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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE
Dec. 3, 1953	-	-		-		0.19		2.9		-

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							
47. REMARKS AND REFERENCES															
<p>C/I ratio = 0.30 in 1938, 0.29 in 1953.  Estimated trap efficiency = 95%  Total sediment load, adjusted for trap efficiency 0.41 ac.ft./sq. mi.</p>															
48. AGENCY SUPPLYING DATA					SCS, Ft. Worth, Texas					49. DATE					
										Jan 1954					