

RESERVOIR SEDIMENT  
DATA SUMMARY

Clear Creek Lake

NAME OF RESERVOIR

20-30

DATA SHEET NO.

DAM		1. OWNER TVA		2. STREAM Clear Creek		3. STATE Virginia		
DAM		4. SEC. TWP. RANGE		5. NEAREST POST OFF. Bristol		6. COUNTY Washington		
DAM		7. LAT. 36° 39' 45" LONG. 82° 07' 13"		8. TOP OF DAM ELEVATION 1967.0		9. SPILLWAY CREST ELEV. 1957.0 1/		
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	1,957.0 1/		146	2,511	2,810	3/15/65	
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION							
f. CONSERVATION	1,930 2/		47	299	299	3/17/65		
g. INACTIVE	1,913.5 3/		0	0	0			
17. LENGTH OF RESERVOIR 0.82 MILES				AV. WIDTH OF RESERVOIR 0.08 MILES				
18. TOTAL DRAINAGE AREA		5.75 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		41.2 INCHES		
19. NET SEDIMENT CONTRIBUTING AREA		5.68 SQ. MI.		23. MEAN ANNUAL RUNOFF		15.15 INCHES		
20. LENGTH 4.0 MILES		AV. WIDTH 1.4 MILES		24. MEAN ANNUAL RUNOFF		46.46 AC.-FT.		
21. MAX. ELEV. 2620		MIN. ELEV. 1910		25. ANNUAL TEMP: MEAN 57° RANGE 4° to 96°				
WATERSHED	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.
	Dec. 2, 1965	0	0	Range	8	47	299	.064
	Aug. 10, 1971	5.8	5.8	Range	8	4/	294	
				(D)				
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		
	Aug. 10, 1971	40.2						
SURVEY DATA	25. 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	
	Aug. 10, 1971	5.0	.862	.152	5.0	.862	.152	
SURVEY DATA	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. TOTAL TO DATE	b. PERIOD		a. AV. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
	Aug. 10, 1971	62*	205	205	.031	.178		

\*Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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.
1966	1930.85	1930.10					
1967	1930.65	1930.10					
1968	1930.68	1930.03					
1969	1930.30	1914.00					
1970	1932.10	1930.00					
1971	1930.97	1930.00					

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
		1965						
1913.5	0	0						
1920	10	16						
1925	29	113						
1930	47	299						
1935	61	565						
1940	79	914						
1950	116	1,889						
1957	146	2,810						

47. REMARKS AND REFERENCES

1/ Emergency spillway crest.

2/ Main spillway crest; normal full pool.

3/ Sluiceway invert elevation.

4/ Not measured or calculated after initial survey.