

RESERVOIR SEDIMENT
DATA SUMMARY

BLUESTONE LAKE

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

NAME OF RESERVOIR

19-56

DATA SHEET NO

DAM	1. OWNER Dept. of Army, C.of E.		2. STREAM New River		3. STATE West Virginia		
	4. SEC. TWP RANGE		5. NEAREST P O Hinton 3S		6. COUNTY Summers		
	7. LAT 37° 38' 25" LONG 80° 53' 15"		8. TOP OF DAM ELEVATION 1535		9. SPILLWAY CREST ELEV 1520		
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	1,520	9,180	592,600	631,000	July 1949	
	b. MULTIPLE USE	1,410 1/	2,040	7,500	38,400		
	c. POWER						
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						
	f. CONSERVATION	1,406	1,800	22,700	30,900	July 1949	
	g. INACTIVE	1,389 2/	920	8,200	8,200		
17. LENGTH OF RESERVOIR 36.0		MILES		AV. WIDTH OF RESERVOIR 40		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 4,603		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 40.0		INCHES
	19. NET SEDIMENT CONTRIBUTING AREA 2,221 3/		SQ. MI.		23. MEAN ANNUAL RUNOFF 16.2		INCHES
	20. LENGTH 185.4		MILES		AV. WIDTH 24.8		MILES
	21. MAX. ELEV. 5729		MIN. ELEV. 1368		25. ANNUAL TEMP MEAN 53		RANGE
	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
July 1949 May 1965	15.8	15.8	Contour Range (D)	10 feet 5/ 41	9,180 9,180	631,000 625,800	- -
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	
May 1965	39.0	4,140,000	5,930,000	65,430,000	4,140,000	65,430,000	
26. 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	
May 1965	5,180	328	0.15	5,180	328	0.15	
26. DATE OF SURVEY	39. AV DRY WC., 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 ANN	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
May 1965	55* *Assumed	180	180	.05	82	71	71

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION <u>4/</u>													
	140-152	130-140	120-130	114-120	110-114	100-110	90-100	80-90	60-80	40-60	20-40	0-20		
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
May 1965	6.3	26.2	40.7	12.8	2.6	2.5	-1.7	1.2	3.1	2.1	2.2	2.0		
26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR <u>4/</u>													
	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														
May 1965	23.0	41.2	27.4	-2.2	3.1	0	1.8	2.2	2.2	1.3				
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.							
Part 1949	1421.3	1396	1,520,000	1960	1506.0	1405	5,320,000							
1950	1427.0	1395	4,670,000	1961	1428.2	1405	3,810,000							
1951	1417.1	1402	4,150,000	1962	1446.8	1405	4,800,000							
1952	1445.7	1404	3,650,000	1963	1489.5	1406	3,980,000							
1953	1453.1	1401	3,780,000	1964	1444.4	1406	2,970,000							
1954	1432.2	1401	2,700,000	Part 1965	1440.9	1401	2,890,000							
1955	1479.7	1405	4,170,000											
1956	1427.4	1405	3,000,000											
1957	1475.6	1398	5,130,000											
1958	1449.3	1405	5,930,000											
1959	1435.7	1405	2,960,000											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
ORIGINAL			1965 RESURVEY											
1368	0	0	1368	0	0									
1389	920	8,200	1389	730	7,100									
1406	1,800	30,900	1406	1,730	26,450									
1410	2,040	38,400	1410	1,980	33,800									
1440	3,790	124,700	1440	3,770	120,000									
1480	6,240	326,400	1480	6,230	321,500									
1520	9,180	631,000	1520	9,180	625,800									
47. REMARKS AND REFERENCES														
<ol style="list-style-type: none"> Seasonal pool for recreation and fish and wildlife enhancement. Sluice gate upstream invert elevation. Area above Claytor Dam, 2382 square miles, considered non-contributing. Scour or increase in lake capacity considered as negative sediment. 5 foot contours below elevation 1400. 														
48. AGENCY MAKING SURVEY U. S. Army Engineer District						50. DATE <u>October 1973</u>								
49. AGENCY SUPPLYING DATA Huntington, W. Va.														