

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

DILLON LAKE

NAME OF RESERVOIR

21-61

DATA SHEET NO.

DAM	1. OWNER <u>Dept. of Army, C. of E.</u>			2. STREAM <u>Licking River</u>			3. STATE <u>Ohio</u>										
	4. SEC. <u>TWP. 1N</u> <u>RANGE 8W</u>			5. NEAREST P O <u>Zanesville</u>			6. COUNTY <u>Muskingum</u>										
	7. LAT. <u>39° 59' 32"</u> LONG. <u>82° 04' 57"</u>			8. TOP OF DAM ELEVATION <u>818</u>			9. SPILLWAY CREST ELEV. <u>790</u>										
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		790.0		10,280		256,500		274,000		17 Dec 1960						
	b. MULTIPLE USE		737.0		1,560		4,350		17,500								
	c. POWER																
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN						
	e. IRRIGATION																
	f. CONSERVATION		734.0		1,330		13,120		13,150		1 May 1961						
	g. INACTIVE		704.0		20		30		30								
17. LENGTH OF RESERVOIR					21.7		MILES		18. AV. WIDTH OF RESERVOIR			0.74		MILES			
18. TOTAL DRAINAGE AREA					742		SQ. MI.		22. MEAN ANNUAL PRECIPITATION			39.3		INCHES			
19. NET SEDIMENT CONTRIBUTING AREA					2/ 690		SQ. MI.		23. MEAN ANNUAL RUNOFF			13.8		INCHES			
20. LENGTH					67		MILES		24. MEAN ANNUAL RUNOFF			548,000		AC. FT.			
21. MAX. ELEV.					1355		MIN. ELEV.		700		25. ANNUAL TEMP. MEAN			53		RANGE	
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.		
	17 Dec 1960						Contour		5 feet		1,560		17,500		.032		
	3 Feb 1961		3/				Range (D)		14		1,560		17,500		.032		
	29 Mar 1973		12.16		12.16		Range (R)		5		1,500		16,100		.029		
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				
	29 Mar 1973		38.6		576,400		676,200		7,008,800		576,400		7,008,800				
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					
29 Mar 1973		1382		114		0.17		1382		114		0.17					
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. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE					
29 Mar 1973		*65		234		234		0.65		7.9		205		205			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	27-37	17-27	7-17	3-7	0-3								
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
29 Mar 1973	9.8	22.6	18.7	15.5	33.4								

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														
29 Mar 1973	10.5	13.7	13.6	13.7	13.6	13.6	13.6	6.7	0.5	0.5					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
Part 1961	751.3	710.9	531,100	Part 1973	751.6	733.9	480,700
1962	744.1	733.4	456,400				
1963	771.1	733.6	509,500				
1964	772.9	733.7	517,300				
1965	742.7	733.9	488,000				
1966	751.2	733.9	497,200				
1967	755.6	724.9	567,900				
1968	771.8	724.9	666,000				
1969	750.5	728.2	590,200				
1970	754.0	733.3	676,200				
1971	748.2	724.6	527,500				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
ORIGINAL			1973 RESURVEY					
700	0	0	700	0	0			
710	40	200	710	20	70			
720	340	1,660	720	310	1,210			
730	1,040	8,400	730	970	7,700			
734	1,330	13,150	734	1,250	12,200			
737	1,560	17,500	737	1,500	16,100			

47. REMARKS AND REFERENCES

- Information given in items 19, 31, 32, 33, 37, 38, 40, 41, 43 and 44 pertains to seasonal pool elevation 737.
- A portion, 49 sq. mi., of the total drainage area is controlled by Buckeye Lake.
- Mean date of original survey of 14 sediment ranges in the seasonal pool area.

48. AGENCY MAKING SURVEY U. S. Army Engineer District  
49. AGENCY SUPPLYING DATA Huntington, W. Va.

50. DATE February 1974