

# RESERVOIR SEDIMENT DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

DEER CREEK LAKE  
NAME OF RESERVOIR

19-63

DATA SHEET NO.

DAM	1. OWNER Dept of Army, C of E			2. STREAM Deer Creek			3. STATE Ohio									
	4. SEC. TWP. RANGE			5. NEAREST P O Mt. Sterling			6. COUNTY Pickaway									
	7. LAT 39° 37' 20" LONG 83° 12' 58"			8. TOP OF DAM ELEVATION 858			9. SPILLWAY CREST ELEV. 844									
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					
	FLOOD CONTROL		844		4046		81,510		102,540		1 April 68					
	b. MULTIPLE USE		810		1278		14,610		21,030							
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION		796		727		6,418		6,420							
	g. INACTIVE		772		1.5		2		2		5 Sept. 68					
WATERSHED	17. LENGTH OF RESERVOIR 11.2				MILES				AV. WIDTH OF RESERVOIR 0.56				MILES			
	18. TOTAL DRAINAGE AREA 277				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 38.5				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 275				SQ. MI.				23. MEAN ANNUAL RUNOFF 11.85				INCHES			
	20. LENGTH 35				MILES				AV. WIDTH 7.9				MILES			
	21. MAX. ELEV. 1305				MIN. ELEV. 769				25. ANNUAL TEMP MEAN 52				RANGE			
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. C/I. RATIO, AC.-FT. PER AC.-FT.	
	1 Apr. 68		0		6.85		Contour		10		1278		21,030		0.097	
	8 Feb. 75		6.85		6.85		Range		8		1289		20,870			
	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			
	8 Feb. 75		40.0		209,400		326,800		1,434,600		209,400		1,434,600			
	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			
	8 Feb. 75		160		23.4		0.08		160		23.4		0.08			
	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				
8 Feb. 75		*60		111		111		0.11		0.76		107		107		
		* Assumed														

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	0-14	14-30	30-41											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
8 Feb. 75	-26.9	88.8	38.1											
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													
8 Feb. 75	42.5	29.4	23.1	13.1	-3.8	-1.9	-1.2	-1.2	0	0				
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.							
Part 1968	835.3	804.7	103,300											
1969	815.1	786.9	200,900											
1970	814.8	784.8	163,800											
1971	816.8	796.2	143,300											
1972	815.0	795.0	170,700											
1973	817.5	795.7	326,800											
1974	821.5	790.1	235,800											
Part 1975	---	-----	90,000											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
ORIGINAL			1975 RESURVEY											
810	1,278	21,030	810	1,289	20,870									
805	1,121	15,040	805	1,128	14,860									
800	961	9,810	800	962	9,610									
796	727	6,420	796	725	6,220									
790	446	2,960	790	448	2,770									
785	264	1,200	785	241	1,100									
780	112	279	780	116	220									
769	0	0	769	0	0									
47. REMARKS AND REFERENCES														
1. Information given in items 19, 31, 32, 37, 38, 40, 41, 43, and 44 pertains to seasonal pool elevation 810.														
2. Maximum and minimum elevations listed after normal operation began.														
48. AGENCY MAKING SURVEY U. S. Army Engineer District														
49. AGENCY SUPPLYING DATA Huntington, W. Va.														
50. DATE August 1976														