

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Lake Hope

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

21- 33b

DATA SHEET NO.

State of Ohio

DAM	1. OWNER <u>Div. of Parks & Recreation</u>			2. STREAM <u>Sandy Run</u>			3. STATE <u>Ohio</u>									
	4. SEC. <u>20</u> TWP. <u>11N</u> RANGE <u>16W</u>			5. NEAREST P.O. <u>Zaleski</u>			6. COUNTY <u>Vinton</u>									
	7. LAT. <u>39° 19' 11"</u> LONG. <u>82° 21' 23"</u>			8. TOP OF DAM ELEVATION <u>724</u>			9. SPILLWAY CREST ELEV. <u>715.6</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										May 1939					
	b. MULTIPLE USE															
	c. POWER										16. DATE NORMAL OPER. BEGAN					
	d. WATER SUPPLY															
	e. IRRIGATION										May 1939					
	f. CONSERVATION		<u>715.5</u>		<u>126.9</u>		<u>1555</u>		<u>1555</u>							
	g. INACTIVE															
17. LENGTH OF RESERVOIR <u>2.13</u> MILES					AV. WIDTH OF RESERVOIR <u>0.09</u> MILES											
18. TOTAL DRAINAGE AREA <u>9.95</u> SQ. MI.					22. MEAN ANNUAL PRECIPITATION <u>39.4 (30 yr)</u> INCHES											
19. NET SEDIMENT CONTRIBUTING AREA <u>9.75</u> SQ. MI.					23. MEAN ANNUAL RUNOFF <u>14.6 (30 yr)</u> INCHES											
20. LENGTH <u>5.3</u> MILES					24. MEAN ANNUAL RUNOFF <u>7750</u> AC.-FT.											
21. MAX. ELEV. <u>1072</u>					25. ANNUAL TEMP: MEAN <u>53</u> RANGE <u>-8 to 97 1/</u>											
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.	
	May 1939										127		1555		0.201	
	July 1949		10.2		10.2		D. Range		22		127		1511		0.195	
	June 1955		5.9		16.1		D. Range		22		127		1481		0.191	
	August 1969		14.2		30.3		D. Range		22		127		1451		0.187	
	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			
	July 1949		42.0													
	June 1955		38.4													
	August 1969		37.8													
SURVEY DATA	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							
	July 1949		44.0			4.31			0.442							
	June 1955		30.1			5.10			0.523							
	August 1969		29.5			2.08			0.213							
		a. TOTAL TO DATE			b. AV. ANNUAL			c. PER SQ. MI.-YEAR								
July 1949		44.0			4.31			0.442								
June 1955		30.1			5.10			0.523								
August 1969		29.5			2.08			0.213								
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. PERIOD		b. TOT. TO DATE						
July 1949		74.8		720		720		0.28		2.83						
June 1955								0.30		4.76						
August 1969								0.22		6.67						

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
	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
1/ Annual extreme temperatures expressed at 50 percent probability levels.

48. AGENCY MAKING SURVEY Ohio Division of Water
 49. AGENCY SUPPLYING DATA Ohio Division of Water
 50. DATE January 14, 1972