

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Clark Lake
NAME OF RESERVOIR

19-51

DATA SHEET NO.

State of Ohio

DAM	1. OWNER <u>Div. of Wildlife</u>		2. STREAM <u>Sinking Creek</u>		3. STATE <u>Ohio</u>				
	4. SEC. <u>19</u> TWP. <u>6</u> RANGE <u>10</u>		5. NEAREST P.O. <u>Vienna</u>		6. COUNTY <u>Clark</u>				
	7. LAT. <u>39° 56' 54"</u> LONG. <u>83° 39' 08"</u>		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. <u>1109.1</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						Jan. 1958		
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY								
	e. IRRIGATION						16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION		<u>1109.1</u>	<u>100.2</u>	<u>507.3</u>	<u>507.3</u>	Jan. 1958		
	g. INACTIVE								
17. LENGTH OF RESERVOIR		<u>0.902</u> ^{1/} MILES		AV. WIDTH OF RESERVOIR		<u>0.10</u> MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		<u>6.88</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION		<u>38.1 (30)</u> INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		<u>6.72</u> SQ. MI.		23. MEAN ANNUAL RUNOFF		<u>13.0 (30)</u> INCHES		
	20. LENGTH		<u>1/</u> MILES	AV. WIDTH		<u>1/</u> MILES	24. MEAN ANNUAL RUNOFF	<u>4770</u> AC.-FT.	
	21. MAX. ELEV.		<u>1290</u>	MIN. ELEV.		<u>1095</u>	25. ANNUAL TEMP.: MEAN <u>53</u> RANGE <u>-4 to 96</u> ^{2/}		
	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.
Late 1957			<u>1</u>	D. Range	<u>18</u>	<u>100.2</u>	<u>507.3</u>	<u>0.106</u>	
Sept. 1961		<u>3.8</u>	<u>3.8</u>	D. Range	<u>18</u>	<u>100.2</u>	<u>485.2</u>	<u>0.102</u>	
July 1968		<u>7</u>	<u>10.8</u>	D. Range	<u>18</u>	<u>100.2</u>	<u>456.4</u>	<u>0.096</u>	
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	
Sept. 1961		<u>40.7</u>							
July 1968		<u>35.2</u>							
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	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	Sept. 1961		<u>22.1</u>	<u>5.82</u>	<u>0.865</u>	<u>22.1</u>	<u>5.82</u>	<u>0.865</u>	
	July 1968		<u>28.8</u>	<u>4.11</u>	<u>0.612</u>	<u>50.9</u>	<u>4.71</u>	<u>0.701</u>	
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
Sept. 1961						<u>1.14</u>	<u>4.35</u>		
July 1968						<u>0.93</u>	<u>10.0</u>		

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.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES	Item 17	Item 20			
	Length Reservoir	Watershed	Approx. drainage		
	(miles)	Length (mi)	Width (mi.)	area (sq.mi.)	
	1/ Unnamed trib.	0.90	3.41	1.0	3.4
	Sinking Cr.	0.60	4.05	0.8	3.3

The lake consists of two main tributaries of almost equal size.

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

48. AGENCY MAKING SURVEY
49. AGENCY SUPPLYING DATA

Ohio Division of Water
Ohio Division of Water

50. DATE Jan. 4, 1972