

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Grant Lake

NAME OF RESERVOIR

SCS-34 Rev. 6-66

19-16b

DATA SHEET NO.

State of Ohio

DAM	1. OWNER <b>Div. of Wildlife</b>		2. STREAM <b>Sterling Run</b>		3. STATE <b>Ohio</b>		
	4. SEC. <b>TWP. Pike RANGE</b>		5. NEAREST P.O. <b>Mt. Orab</b>		6. COUNTY <b>Brown</b>		
	7. LAT. <b>38° 59' 48"</b> LONG. <b>83° 55' 44"</b>		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. <b>906</b>		
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					Dec. 1948	
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY						
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION	<b>906</b>	<b>181.3</b>	<b>1140</b>	<b>1140</b>		
	g. INACTIVE						
	17. LENGTH OF RESERVOIR <b>1.9</b> MILES		AV. WIDTH OF RESERVOIR <b>0.15</b> MILES		Dec. 1948		
WATERSHED	18. TOTAL DRAINAGE AREA <b>25.25</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>412 (30)</b> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <b>24.97</b> SQ. MI.		23. MEAN ANNUAL RUNOFF <b>15.0 (30)</b> INCHES				
	20. LENGTH <b>10.0</b> MILES		AV. WIDTH <b>2.5</b> MILES		24. MEAN ANNUAL RUNOFF <b>20,200</b> AC.-FT.		
	21. MAX. ELEV. <b>1000</b>		MIN. ELEV. <b>886</b>		25. ANNUAL TEMP.: MEAN <b>54</b> RANGE <b>-5 to 96</b> ✓		
	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
Dec. 1948					181	1140	
July 1, 1950	1.6	1.6	D. Range	21	181	1111	
Sept. 1957	7.0	8.6	D. Range	24	181	1068	
Aug. 1962	5.0	13.6	D. Range	24	181	1027	
July 1971	9.0	22.6	D. Range	24	181	965	
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	
Jul. 1, 1950	44.8						
Sept. 1957	40.1						
Aug. 1962	43.5						
July 1971	40.9						
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	
Jul. 1, 1950	28.8	18.0	0.721	28.8	18.0	0.721	
Sept. 1957	43.2	6.17	0.247	72.0	8.37	0.335	
Aug. 1962	40.4	8.08	0.324	112.4	8.26	0.331	
July 1971	61.7	6.85	0.274	174.1	7.70	0.309	
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
Jul. 1, 1950	86.57	1360	1360	1.58	2.53		
Sept. 1957				0.73	6.32		
Aug. 1962				0.72	9.86		
July 1971				0.68	15.27		

SURVEY DATA

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

Sediment mostly silty sand, gray to buff color. Small amount of organic matter present. Small percentage of clay present.

*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 December 27, 1971