

RESERVOIR SEDIMENTATION
DATA SUMMARY

Barberton
NAME OF RESERVOIR

21-8
DATA SHEET NO.

DAM	1. OWNER City of Barberton			2. RIVER Wolf Creek			3. STATE Ohio					
	4. SEC. TWP. 1 N RANGE 11 W			5. NEAREST TOWN Barberton			6. COUNTY Summit					
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 1,000					
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN						
	a. FLOOD CONTROL					1926						
	b. POWER											
	c. WATER SUPPLY	1,000	100	2,056	2,056	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE						1926					
17. LENGTH OF RESERVOIR 3.5			MILES			AV. WIDTH OF RESERVOIR 0.5			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 28.2			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 28.0			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH			MILES			AV. WIDTH			MILES		
	21. MAX. ELEV.			MIN. ELEV.			24. MEAN ANNUAL RUNOFF 719 per sq.mi.*			AC.-FT.		
						25. CLIMATIC CLASSIFICATION Humid						
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/W RATIO AC.-FT. PER SQ. MI.				
	1926	-	-	-	-	100	2,056	72.9				
	Dec. 1938	12	12	Recon.	-	100	1,688	59.9				
	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					
	Dec. 1938		770 per sq. mi.*			770 per sq. mi. *						
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS 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					
	Dec. 1938	368	30.7	1.10	368	30.7	1.10					
	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
Dec. 1938	55 *	1,320	1,320	1.49	17.9	1,400 *	1,400*					

* Estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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
 Sanderson, E.E. Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.
 Water Works Engineering, Vol. 79, No. 19, October 1, 1926, p. 1280.
 Brune, Gunnar M. Rates of sediment production in Midwestern U. S. Soil Conserv. Serv., SCS-TP-65, 40 pp., illus., processed, Milwaukee, Wisconsin, December 1948.

Some dredging since 1934. Survey by City of Barberton.
 This form reviewed and approved by A. D. Claggette, Supt. City Utilities, City of Barberton.

48. AGENCY SUPPLYING DATA: Region 3, Soil Conservation Service 49. DATE September 23, 1949