

RESERVOIR SEDIMENTATION
DATA SUMMARY

Christener Pond

21-30

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Christener				2. RIVER			3. STATE Ohio				
	4. SEC. TWP. 6 N RANGE 14 W				5. NEAREST TOWN 2 NW Parma			6. COUNTY Cuyahoga				
	7. STREAM BED ELEV.				8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.				
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										1940	
	b. POWER											
	c. WATER SUPPLY				0.88		3.40		3.40		16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE										1940	
WATERSHED	17. LENGTH OF RESERVOIR				MILES		17. AV. WIDTH OF RESERVOIR				MILES	
	18. TOTAL DRAINAGE AREA 0.09				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 31.89(40yr)				INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 0.09				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES	
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF Approx. 650 A.F./AC-FT. SQ. MI.			
	21. MAX. ELEV.		MIN. ELEV.		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 1/ AC-FT. PER SQ. MI.	
	1940 April 1951		-	11	-	11	-	Range Detailed	5	0.88 0.88	3.40 2.79	37.8 31.0
	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	d. MEAN ANNUAL	e. TOTAL TO DATE.			
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR				
	April 1951		0.61	0.055	0.611	0.61	0.055	0.611				
	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	c. PERIOD	d. TOT. TO DATE				
April 1951		60 (assumed)	798	798	1.62	17.94	-	-				

1/ C/I ratio 0.058 in 1940 and 0.048 in 1951. Trap efficiency estimated at 79% in 1940 and 77% in 1951.

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

Erosion in watershed computed from conservation surveys 3,386 tons/sq.mi./yr.
 " " " " " sheet erosion tables 902 " " " "
 Sediment production adjusted for trap efficiency 727 " " " "

48. AGENCY SUPPLYING DATA SCS, Milwaukee, Wis. 49. DATE Dec. 1, 1952