

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Rockwell

NAME OF RESERVOIR

21 - 17

DATA SHEET NO.

B-8

DAM	1. OWNER City of Akron			2. RIVER Cuyahoga			3. STATE Ohio		
	4. SEC. TWP. 3N RANGE 9W			5. NEAREST TOWN Kent			6. COUNTY Portage		
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 1,052		
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					Aug. 1914			
	b. POWER								
	c. WATER SUPPLY	1,052	658	7,422.8	7,422.8	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					May 1915			
17. LENGTH OF RESERVOIR 2.95 MILES			17. AV. WIDTH OF RESERVOIR			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 205.5 SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 124.1 1/ SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH MILES			20. AV. WIDTH			MILES		
	21. MAX. ELEV.			21. 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 AC-FT. PER SQ. MI.	
	Aug. 1914	-	-	-	-	658.5	7,422.8	36.1	
	Aug. 1950	36	36	Range detailed	15	649.8	6,886.9	33.5	
	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		
	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		
	Aug. 1950	535.9 (539.3) 2/	14.9 (15.0)	0.120 (0.121)	535.9 (539.3)	14.9 (15.0)	0.120 (0.121)		
	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		
Aug. 1950	46 (4)	120 (121)	120 (121)	0.20	7.22				

1/ East Branch Res. and many natural lakes act as efficient sediment traps.
2/ Above-crest deposits within original flow line.

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
 Cost of dam and land \$786,000.
 These figures do not include Lake Pippin.
 Greatest drawdown 4.5 feet.
 Trap efficiency computed on basis of turbidity records as 90.5%.

Region 3, Soil Conservation Service
 U. S. Dept of Agriculture
 Milwaukee, Wisconsin

48. AGENCY SUPPLYING DATA

49. DATE October 4, 1950