

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Iron Mill Pond

NAME OF RESERVOIR

22 -20

DATA SHEET NO.

SCS-34 Rev. 6-66

DAM	1. OWNER Private			2. STREAM Iron Creek			3. STATE Michigan									
	4. SEC. ²⁰⁻²¹ TWP. 4S RANGE 3E			5. NEAREST P.O. Manchester			6. COUNTY Washtenaw									
	7. LAT. 28.29 " LONG. " "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.									
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										over 100 yrs. old					
	b. MULTIPLE USE		1,015		125		1,551		1,551							
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.9 MILES				AV. WIDTH OF RESERVOIR 0.2 MILES											
	18. TOTAL DRAINAGE AREA 14.4 SQ. MI.				22. MEAN ANNUAL PRECIPITATION INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 5.2 SQ. MI.				23. MEAN ANNUAL RUNOFF 9 INCHES											
	20. LENGTH 2.4 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF 6,912 AC.-FT.											
	21. MAX. ELEV. 1,060		MIN. ELEV. 905		25. ANNUAL TEMP: MEAN RANGE											
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/I. RATIO, AC.-FT. PER AC.-FT.	
	Aug. 4, 1969		100				Mod. Range		6		125		Original 1,551 Present 1,159		.224 .168	
	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 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			
	Aug. 4, 1969		392		3.92		0.75		392		3.92		0.75			
	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	
Aug. 4, 1969								0.25		25						

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

Geology: Moraine, ground moraine outwash.

Soils: Well drained sands and loamy sands.

Sediment: The inflowing sediments are silt and clay. However, the deposited sediments include a very high proportion of organic material derived from plant growth within the reservoir. The rates of organic sediment accumulation are related more to other factors than to the inflow of mineral sediment to the reservoir.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE Aug. 5, 1969