

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS 34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Barton Pond

NAME OF RESERVOIR

22-30

DATA SHEET NO.

DAM	1. OWNER <u>City of Ann Arbor</u>			2. STREAM <u>Huron River</u>			3. STATE <u>Michigan</u>									
	4. SEC. <u>7, 8</u> TWP. <u>2S</u> RANGES <u>5 &amp; 6E</u>			5. NEAREST P. O. <u>Ann Arbor</u>			6. COUNTY <u>Washtenaw</u>									
	7. LAT. <u>42-17</u> " LONG. <u>83-17</u> "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. <u>799</u>									
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										1915					
	b. MULTIPLE USE															
	c. POWER				300		3,150		3,150							
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR <u>2.5</u> MILES				AV. WIDTH OF RESERVOIR <u>0.125</u> MILES											
	18. TOTAL DRAINAGE AREA <u>708</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION											
	19. NET SEDIMENT CONTRIBUTING AREA <u>183</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>10</u> INCHES											
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF <u>377,576</u> AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		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.	
	July 28 & 29, 1969		54				Range Detailed		11		300		Original 3,150 Present 2,601		.0083 .0068	
	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			
	July 28 & 29, 1969		549		10.17		.055		549		10.17		0.055			
	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			
July 28 & 29, 1969		39		46		46		0.32 17.43								

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 and glacial channel.

Soils: Well drained loamy sands, sandy loams and sands.

Sediment: Silt, clay, fine sand and some organic material.

48. AGENCY MAKING SURVEY Michigan RB & WPS, Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Michigan RB & WPS, SCS  
 50. DATE July 30, 1969