

RESERVOIR SEDIMENT
DATA SUMMARY

SCS 34 Rev. 6-66

Manchester Power Dam

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

22 -19

DATA SHEET NO.

DAM	1. OWNER				2. STREAM Raisin		3. STATE Michigan				
	4. SEC. 12		TWP. 4S		RANGE 4E		5. NEAREST P.O. Manchester		6. COUNTY Washtenaw		
	7. LAT. ' ' " ' ' "		" LONG. ' ' " ' ' "		8. TOP OF DAM ELEVATION 880		9. SPILLWAY CREST ELEV. 870				
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										1945
	b. MULTIPLE USE										
	c. POWER				39.2		288.9		288.9		16. DATE NORMAL OPER. BEGAN
	d. WATER SUPPLY										
	e. IRRIGATION										
	f. CONSERVATION										
	g. INACTIVE										
17. LENGTH OF RESERVOIR 0.75				MILES		AV. WIDTH OF RESERVOIR 0.13				MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 6.4				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES
	19. NET SEDIMENT CONTRIBUTING AREA 6.4				SQ. MI.		23. MEAN ANNUAL RUNOFF 9.0				INCHES
	20. LENGTH 6.5		MILES		AV. WIDTH 5.0		MILES		24. MEAN ANNUAL RUNOFF 3072		AC. FT.
	21. MAX. ELEV. 1060		MIN. ELEV. 880		25. ANNUAL TEMP: MEAN				RANGE		
	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.	
5-13-69		23				8	39.2	Original	.09		
								288.9			
								Present	.08		
								259.5			
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 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				
5-13-69		29.4	1.28	0.20	29.4	1.28	0.20				
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				
5-13-69		31.5	137	137	0.44	10.18					

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
	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 Outwash.
 Soils: Loamy sands and sands; well drained in the uplands, poorly drained in the lowlands. Some organic soils.
 Sediment: Silt + clay.

48. AGENCY MAKING SURVEY Michigan RB & WPP, SCS
 49. AGENCY SUPPLYING DATA Michigan RB & WPP, SCS
 50. DATE June 30, 1969