

RESERVOIR SEDIMENT DATA SUMMARY

Hambaugh-Martin No. 1
NAME OF RESERVOIR

24-56a
DATA SHEET NO.

DAM	1. OWNER McGee Cr. Drainage		2. STREAM Martin Branch		3. STATE Illinois			
	4. SEC. 33 TWP. 2S RANGE 2W		5. NEAREST P.O. Versailles		6. COUNTY Brown			
	7. LAT 39° 51' 10" LONG 90° 38' 30"		8. TOP OF DAM ELEVATION 488.6		9. SPILLWAY CREST ELEV. 485.0 [±]			
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	485.0	38.5	134.00	426.56	Sept. 1961		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION					Sept. 1961		
g. INACTIVE 2/	480.0	32.4	292.56	292.56				
WATERSHED	17. LENGTH OF RESERVOIR		0.64 MILES	AV. WIDTH OF RESERVOIR		0.09 MILES		
	18. TOTAL DRAINAGE AREA		2.09 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		35 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		2.03 SQ. MI.	23. MEAN ANNUAL RUNOFF		8 [±] INCHES		
	20. LENGTH	2.12 MILES	AV. WIDTH	0.99 MILES	24. MEAN ANNUAL RUNOFF		893.4 AC.-F.T.	
	21. MAX. ELEV.	628 [±]	MIN. ELEV.	451.8	25. ANNUAL TEMP: MEAN 54° 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.
	9-15-61	--	--	--	--	32.4 ^{5/6/}	292.56 ^{5/6/}	0.33 ^{5/6/}
	2-18-72	10.4	10.4	Range (D)	23	38.5 ^{5/6/}	426.56 ^{5/6/}	0.48 ^{5/6/}
	1-12-78	5.90	16.3	Range (D)	23	31.7 ^{5/6/}	243.79 ^{5/6/}	0.27 ^{5/6/}
						38.5 ^{5/6/}	375.26 ^{5/6/}	0.42 ^{5/6/}
						31.2 ^{5/6/}	222.89 ^{5/6/}	0.25 ^{5/6/}
						38.5 ^{5/6/}	353.73 ^{5/6/}	0.40 ^{5/6/}
	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		
2-18-72	48.77 ^{5/6/} 51.30 ^{6/}	4.69 4.93	2.31 2.43	48.77 ^{5/6/} 51.30 ^{6/}	4.69 4.93	2.31 ^{5/6/} 2.43 ^{6/}		
1-12-78	20.90 ^{5/6/} 21.53 ^{6/}	3.54 3.65	1.75 1.80	69.67 ^{5/6/} 72.83 ^{6/}	4.27 4.47	2.10 ^{5/6/} 2.20 ^{6/}		
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	
2-18-72	51.6 (10)	2596 ^{5/6/} 2731 ^{5/6/}	2596 2731	1.60 ^{7/} 1.16 ^{7/}	16.67 ^{7/} 12.03 ^{7/}			
1-12-78	48.7 (10)	1594 ^{5/6/} 1636 ^{6/}	2227 2334	1.46 ^{7/} 1.05	23.81 ^{7/} 17.07			

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														
2-18-72	8.3	8.1	7.0	8.4	7.2	13.5	18.4	8.1	4.5	6.4	8/9				
1-12-78	8.3	8.2	7.8	9.5	7.1	14.7	17.9	8.9	4.4	4.8	9/1				
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															
1. Emergency spillway control section. 2. Sediment Pool 3. Estimated from USGS Quad Sheets. 4. From Illinois State Water Survey data. 5. Sediment pool only. 6. Total reservoir below crest elevation 485.0'. 7. Refers to loss of storage in sediment pool only. 8. 10.1% of sediment deposited in tributaries to main branch of reservoir. 9. 8.4% of sediment deposited in tributaries to main branch of reservoir															
48. AGENCY MAKING SURVEY Soil Conservation Service, USDA						50. DATE <u>June 9, 1978</u>									
49. AGENCY SUPPLYING DATA Soil Conservation Service, USDA															