

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

W. F. Farrell

NAME OF RESERVOIR

16-25

DATA SHEET NO.

DAM	1. OWNER W. F. Farrell			2. RIVER Trib. to Harper Cr		3. STATE Illinois		
	4. LONG. 11 LAT. 2S RANGE 2E			5. NEAREST TOWN Mt. Vernon		6. COUNTY Jefferson		
	7. STREAM BED ELEV. 485'*			8. TOP OF DAM ELEV. 506'*		9. SPILLWAY CREST ELEV. 501'*		
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					1945		
	b. POWER							
	c. WATER SUPPLY	501'*	4.77	35.56	35.56	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.160 MILES			AV. WIDTH OF RESERVOIR 0.044 FEET				
	18. TOTAL DRAINAGE AREA 0.519 SQ. MI.			22. MEAN ANNUAL PRECIPITATION (45) 41 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.512 SQ. MI.			23. MEAN ANNUAL RUNOFF (20-40) 12.9 INCHES				
	20. LENGTH 1.008 MILES AV. WIDTH 0.515 MILES			24. MEAN ANNUAL RUNOFF 346.1 AC.-FT.				
	21. MAX. ELEV. 575'*		MIN. ELEV. 485'*		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.
	June, 1960	15	15	DR	4	4.77 4.77	35.56 27.41	68.52 52.81
	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	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
	June, 1960	8.15	0.543	1.06	8.15	0.543	1.06	
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
	June, 1960	51.5 (6)	1189.0	1189.0	1.52	22.9	--	--

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