

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Backbone Lake (Forestville Lake)

26-2

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER State Conservation Dept.			2. RIVER Maquoketa River			3. STATE Iowa			
	4. SEC. 4, 5, 8 TWP. 90N RANGE 6W			5. NEAREST TOWN Strawberry Pt.			6. COUNTY Delaware			
	7. STREAM BED ELEV. 9, 15, 16			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 997.1			
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									
	b. POWER							July 1934		
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION									
	e. CONSERVATION	997.1	117	608	608			July 1934		
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES		
	18. TOTAL DRAINAGE AREA			116	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			31 (30)	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA			116	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF			AC.-FT.
	21. MAX. ELEV.		MIN. ELEV.		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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.		
	July 1934	-	-	-	-	117	608	5.24		
	Feb. 1942	7.6	7.6	Range Detailed	32	107	539	4.65		
	Feb. 1949	7.0	14.6	"	32	103	473	4.08		
	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 SEDIMENT DEPOSITS 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			
	Feb. 1942	68.6	9.03	0.078	68.6	9.03	0.078			
	Feb. 1949	66.4	9.49	0.082	135.0 (165.1)	9.25 (11.31)	0.080 (0.097)			
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			
Feb. 1942	75.1 (6)	127	127	1.49	11.3					
Feb. 1949		134	131 (160)	1.52	22.2					

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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

1. U.S.D.A. Yearbook of Agriculture, 1941, Washington, D.C.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service  
U. S. Dept. of Agriculture  
Milwaukee, Wisconsin

49. DATE January 6, 1950