

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Beeds Lake  
NAME OF RESERVOIR

25 - 10  
DATA SHEET NO.

DAM	1. OWNER State of Iowa			2. RIVER Unnamed Stream			3. STATE Iowa		
	4. SEC. 19 TWP. 92N RANGE 20W			5. NEAREST TOWN Hampton			6. COUNTY Franklin		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 1,134		
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					1934			
	b. POWER								
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION								
	e. CONSERVATION	1,134	105.9 1/	1,154 1/	1,154	1934			
	f. INACTIVE								
17. LENGTH OF RESERVOIR				MILES	17. AV. WIDTH OF RESERVOIR				MILES
WATERSHED	18. TOTAL DRAINAGE AREA			31.8	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			INCHES
	19. NET SEDIMENT CONTRIBUTING AREA			31.6	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES
	20. LENGTH		MILES	20. AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF 529 per sq. mi. # AC.- FT.		
	21. MAX. ELEV.		21. MIN. ELEV.			25. CLIMATIC CLASSIFICATION Humid			
	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.
1935 2/		-	-	Topo- detailed	-	105.9	1,154	36.3	
1946		11	11	Topo- detailed	-	105.9	1,070	33.6	
SURVEY DATA	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
	1946				334 per * sq. mi.			334 per * sq. mi.	
	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	
1946		84.1	7.65	0.24	84.1	7.65	0.24		
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	
1946		65 *	340	340	0.66	7.3	1,000 *	1,000 *	

\* Estimated

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

Brune, G. M., Rates of sediment production in Midwestern United States, U. S. Soil Conserv. Serv., SCS-TP-65, 40 pp., illus., processed, Milwaukee, Wisconsin, December 1948.

1/ Original capacity and surface area in 1934 not known.

2/ Beginning of sedimentation record.

Survey by Iowa State Conservation Commission.  
 Region 3, Soil Conservation Service  
 U. S. Dept. of Agriculture  
 Milwaukee, Wisconsin

48. AGENCY SUPPLYING DATA

49. DATE June 1950