

RESERVOIR SEDIMENTATION  
DATA SUMMARY State of Ohio

Bear Lake

NAME OF RESERVOIR

19-33

DATA SHEET NO.

DAM	1. OWNER Div. of Parks			2. RIVER Left Fork Bear Cr.			3. STATE Ohio								
	4. SEC. TWP. RANGE			5. NEAREST TOWN			6. COUNTY Scioto								
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 890								
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 1935									
	a. FLOOD CONTROL														
	b. POWER														
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN									
	d. IRRIGATION														
	e. CONSERVATION	890	4.02	33.11	33.11	1935									
	f. INACTIVE														
17. LENGTH OF RESERVOIR		0.16 MILES		AV. WIDTH OF RESERVOIR		0.04 MILES									
WATERSHED	18. TOTAL DRAINAGE AREA		0.48 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				42.0 (25 yrs.) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA		0.47 SQ. MI.		23. MEAN ANNUAL RUNOFF				15.0 est. (9 yrs.) INCHES						
	20. LENGTH		1.0 MILES		AV. WIDTH		0.48 MILES		24. MEAN ANNUAL RUNOFF		384 AC.-FT.				
	21. MAX. ELEV.		1280		MIN. ELEV.		880		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.
1937		-		-		-		-		4.0		33		68.8	
Jul. 31, 1950		15.3		15.3		R. Detail		7		4.0		32		66.6	
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		d. MEAN ANNUAL		e. TOTAL TO DATE		
	Jul. 31, 1950		44.6		-		-		-		-		-		
	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			
Jul. 1950		1.40		0.091		0.194		1.40		0.091		0.194			
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	
Jul. 1950		67.02		283		283		0.275 4.23		-		-			

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

Sediment: Light grey to buff clay, silt, & sand, with some orange mottling. Little organic matter except in upper reaches.

48. AGENCY SUPPLYING DATA      Ohio Div. of Water      49. DATE June 18, 1954