

RESERVOIR SEDIMENTATION

Ridge Lake

17-6

DATA SUMMARY Pub. Works & Buildings

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER State of Ill. Dept. of/			2. RIVER Trib. of Embarrass R.			3. STATE Illinois									
	4. SEC. 13 TWP. 11 N RANGE 9 E			5. NEAREST TOWN Charleston			6. COUNTY Coles									
	7. STREAM BED ELEV. app. 570			8. TOP OF DAM ELEV. 603			9. SPILLWAY CREST ELEV. 595.0									
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										Apr. 1941					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION		595.0		18.11		187.4		187.4		Apr. 1941					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.5 MILES				AV. WIDTH OF RESERVOIR 0.05 MILES											
	18. TOTAL DRAINAGE AREA 1.41 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 38.92 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.38 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 2.1 MILES		AV. WIDTH 0.7 MILES		24. MEAN ANNUAL RUNOFF AG.-FT.											
	21. MAX. ELEV. app. 720		MIN. ELEV. 570		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.	
	April 1941		-		-		-		-		18.1		187.4		133	
	Sept. 1947		6.4		6.4		Range Detailed		6		17.6		171.9		122	
	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			
	Sept. 1947		39.40													
	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			
	Sept. 1947		15.49 (15.67)		2.42 (2.45)		1.75 (1.78)		15.49 (15.67)		2.42 (2.45)		1.75 (1.78)			
	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		
Sept. 1947		72.4 (4)		2,760 (2,810)		2,760 (2,810)		1.29		8.27						

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
 This lake is an experimental fish hatchery.

Illinois State Water Survey

48. AGENCY SUPPLYING DATA Urbana, Illinois 49. DATE June 15, 1950