

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Bracken
NAME OF RESERVOIR

24 - 8
DATA SHEET NO.

C-9

DAM	1. OWNER C. B. & Q. R.R.			2. RIVER Brush Creek		3. STATE Illinois			
	4. SEC. 14 TWP. 10N RANGE 1E		5. NEAREST TOWN Galesburg			6. COUNTY Knox			
	7. STREAM BED ELEV. 659.4			8. TOP OF DAM ELEV. 707		9. SPILLWAY GREST ELEV. 700.7			
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					Dec. 1923			
	b. POWER								
	c. WATER SUPPLY	700.7	186	2,881	2,881	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					Dec. 1923			
WATERSHED	17. LENGTH OF RESERVOIR 2.4 MILES		AV. WIDTH OF RESERVOIR 0.12 MILES						
	18. TOTAL DRAINAGE AREA 9.14 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 34.67 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 8.85 SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES				
	20. LENGTH 4.0 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF				
	21. MAX. ELEV. 780		MIN. ELEV. 659.4		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.	
	Dec. 1923	-	-	-	-	186	2,881	315	
	Aug. 1936	12.7	12.7	Range detailed	30	184	2,660	291	
	June 1949	12.9	25.6	"	30	181	2,452	268	
	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
	Aug. 1936								
	June 1949	34.62							
	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		
Aug. 1936	221	17.4	1.97	221	17.4	1.97			
June 1949	208	16.1	1.82	429	16.8	1.90			
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		
Aug. 1936		2,231	2,231	0.60	7.67				
June 1949	52 (14)	2,061	2,152	0.58	14.89				

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															
<p>Jones, V. H., Advance Report on the Sedimentation Survey of Lake Bracken, Galesburg, Ill., U.S. Soil Conserv. Serv., SCS-SS-14, 10 pp., illus., processed., Washington, D. C., May 1937.</p> <p>Larson, B. O., Smith, H. M., Sauer, E. L. and Melsted, S. W., The silting of Lake Bracken, Galesburg, Ill., Rept. of Investigation No. 12, Ill. State Water Survey Div., Dept. of Registration and Education, Urbana, Ill., 1951</p> <p style="text-align: center;">Illinois State Water Survey</p>															
48. AGENCY SUPPLYING DATA				Urbana, Illinois				49. DATE				June 15, 1950			