

RESERVOIR SEDIMENTATION
DATA SUMMARY

Babb Pond

NAME OF RESERVOIR

21-28

DATA SHEET NO.

DAM	1. OWNER Babb			2. RIVER			3. STATE Ohio									
	4. SEC. TWP. 4 F RANGE 12 W			5. NEAREST TOWN 1 mi. South W. Richfield			6. COUNTY Summit									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.									
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										1932					
	b. POWER															
	c. WATER SUPPLY				0.114		0.245		0.245		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE										1932					
17. LENGTH OF RESERVOIR					MILES		AV. WIDTH OF RESERVOIR					MILES				
WATERSHED	18. TOTAL DRAINAGE AREA				0.02		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				35.44 (40yr.) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				0.02		SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				Approx. 650 AC. FT. / SQ. MI.			
	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 _w RATIO 1/ AC- FT. PER SQ. MI.	
	1932 April 1951		- 19		- 19		- Range Detailed		- 3		0.114 0.114		0.245 0.189		12.3 9.4	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG- FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.- YEAR				
April 1951		0.057		0.0030		0.150		0.057		0.0030		0.150				
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		c. PERIOD		d. TOT. TO DATE		
April 1951		60 (assumed)		196		196		1.22		23.3		-		-		

1/ C/I ratio 0.019 in 1932 and 0.014 in 1951. Trap efficiency estimated at 58% in 1932 and 52% in 1951.

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

Erosion in watershed computed from conservation surveys 2,099 tons/sq.mi./yr.
 Erosion in watershed computed from sheet erosion tables 2,240 tons./sq.mi./yr.
 Sediment production adjusted for trap efficiency 35u tons./sq.mi./yr.