

RESERVOIR SEDIMENTATION
DATA SUMMARY

Basom Pond

NAME OF RESERVOIR

21-29

DATA SHEET NO.

DAM	1. OWNER Basom				2. RIVER				3. STATE Ohio															
	4. SEC. TWP. 4N RANGE 10 W				5. NEAREST TOWN 2N. Hudson				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										1944													
	b. POWER																							
	c. WATER SUPPLY				1.73		3.87		3.87		16. DATE NORMAL OPER. BEGAN													
	d. IRRIGATION																							
	e. CONSERVATION																							
	f. INACTIVE										1944													
17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES												
WATERSHED	18. TOTAL DRAINAGE AREA				0.32				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 40.0 (24yr.)				INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA				0.32				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES							
	20. LENGTH				MILES				AV. WIDTH				MILES				24. MEAN ANNUAL RUNOFF Approx. 650 A.F./80-FT.				sq. mi.			
	21. MAX. ELEV.				MIN. ELEV.								25. CLIMATIC CLASSIFICATION Humid				sq. mi.							
	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.									
1944		-		-		-		-		1.73		3.87		12.1										
April 1951		7		7		Range Detailed		5		1.73		3.24		10.1										
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											
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												
April 1951		0.628		0.090		0.281		0.628		0.090		0.281												
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												
April 1951		60 (assumed)		367		367		2.33		16.2		-												

1/ C/I ratio 0.019 in 1944 and 0.016 in 1951. Trap efficiency estimated at 58% in 1944 and 55% 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 3,456 tons/sq.mi./y

Erosion in watershed computed from sheet erosion tables 614 " " " "

Sediment production adjusted for trap efficiency 644 " " " "