

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Cowan Lake

19-43

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER State of Ohio-Div. of Parks			2. RIVER Cowan Creek			3. STATE Ohio					
	4. SEC. Vernon Twp. Washington Twp.			5. NEAREST TOWN Wilmington			6. COUNTY Clinton					
	7. STREAM BED ELEV. 912			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 960					
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										1947	
	b. POWER											
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION		960		688		13,305		13,305		1947	
	f. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 3.1 MILES				AV. WIDTH OF RESERVOIR .35 MILES							
	18. TOTAL DRAINAGE AREA 49.6 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 45.5 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 48.5 SQ. MI.				23. MEAN ANNUAL RUNOFF 13.7 INCHES							
	20. LENGTH 10.6 MILES		AV. WIDTH 4.9 MILES		24. MEAN ANNUAL RUNOFF 36,241 AC.-FT.							
	21. MAX. ELEV. 1190		MIN. ELEV. 912		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.	
	1947								13,305		268	
	1960		13	13	Range Recon.	8	688		12,770		257	
	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	
	1960											
	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				
	1960		535	41.1	.847	535	41.1	0.847				
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE				
1960		50 (est)	923	923	0.31	4.02						

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

48. AGENCY SUPPLYING DATA      Ohio Division of Water

49. DATE      September 20, 1961