

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Ticky Pond

NAME OF RESERVOIR

21--32

DATA SHEET NO.

DAM	1. OWNER Ticky			2. RIVER			3. STATE Ohio									
	4. SEC. TWP. 4N RANGE 12 W			5. NEAREST TOWN 4 NW Peninsula			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										1949					
	b. POWER															
	c. WATER SUPPLY				0.38		2.84		2.84		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										1949					
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR				MILES		17. AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA				0.16		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				40.0 (24yr) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				0.16		SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				Approx. 650 A.F. / 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 AC.-FT. PER SQ. MI.
1949		-		-		-		-		0.38		2.84		17.8		
April 1951		2		2		Range Detail		4		0.38		2.81		17.5		
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		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		0.032		0.016		0.100		0.032		0.016		0.100				
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)		131		131		0.56		1.13		-		-		

1/ C/I ratio 0.027 in 1949 and 1950. Trap efficiency estimated at 66% up to 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 2,541 tons/sq.mi./yr.  
 " " " " " sheet erosion tables 1,114 " " " "  
 Sediment production adjusted for trap efficiency 199 " " " "