

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Knox Lake

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21 - 50

DATA SHEET NO.

State of Ohio

DAM	1. OWNER	Diy. of Wildlife		2. STREAM	E. Branch Kokosing		3. STATE	Ohio		
	4. SEC.	TWP. 8N	RANGE 13W	5. NEAREST P. O.	Fredericktown		6. COUNTY	Knox		
	7. LAT.	40°29'48" LONG. 82°31'36"		8. TOP OF DAM ELEVATION	1117		9. SPILLWAY CREST ELEV.	1100		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL					Fall 1949				
	b. MULTIPLE USE					May 1954				
	c. POWER									
	d. WATER SUPPLY									
	e. IRRIGATION									
	f. CONSERVATION		1100	474	3502	3502	May 1954			
g. INACTIVE										
WATERSHED	17. LENGTH OF RESERVOIR	3.47		MILES	AV. WIDTH OF RESERVOIR	0.22		MILES		
	18. TOTAL DRAINAGE AREA	31.4		SQ. MI.	22. MEAN ANNUAL PRECIPITATION	37.5 (30)		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA	30.66		SQ. MI.	23. MEAN ANNUAL RUNOFF	14.3 (30)		INCHES		
	20. LENGTH	10.0	MILES	AV. WIDTH	3.14	MILES	24. MEAN ANNUAL RUNOFF	23,900 AC.-FT.		
	21. MAX. ELEV.	1,450		MIN. ELEV.	1069		25. ANNUAL TEMP.: MEAN	49.6 RANGE -10 to 95 2/		
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/I. RATIO, AC.-FT. PER AC.-FT.		
	1949	--	--	--	--	474	3,502	0.146		
	Aug. 1960	7.0	7.0	D. Range	30	474	3,399	0.142		
	July 1970	10.0	17.0	D. Range	30	474	3,283	0.137		
	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. 1960	38.4								
	July 1970	37.2								
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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. 1960	103	14.7	0.480	103	14.7	0.480				
July 1970	116	11.6	0.378	219	12.9	0.420				
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
Aug. 1960				0.42	2.94					
July 1970				0.37	6.25					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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>1/ Gate closed Fall 1949          Drained March 1950          Gate closed May 1954</p> <p>2/ Annual extreme temperatures expressed at 50 percent probability levels.</p>															
48. AGENCY MAKING SURVEY Ohio Division of Water										50. DATE January 14, 1972					
49. AGENCY SUPPLYING DATA Ohio Division of Water															