

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Kiser Lake

NAME OF RESERVOIR

19-20

DATA SHEET NO.

DAM	1. OWNER Div. of Pk. and Wildlife			2. RIVER Mosquito Creek			3. STATE Ohio			
	4. SEC. 22 TWP. 3 RANGE 12			5. NEAREST TOWN St. Paris			6. COUNTY Champaign			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 1067			
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					Jan. 8, 1940				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION	1067	380	3330.90	3330.90	1940				
	f. INACTIVE									
17. LENGTH OF RESERVOIR		2.07	MILES	AV. WIDTH OF RESERVOIR		0.29	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		8.73	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		37.7 (25 yr.)	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		8.14	SQ. MI.	23. MEAN ANNUAL RUNOFF		12 (31 yr.)	INCHES		
	20. LENGTH	5.0	MILES	AV. WIDTH	1.75	MILES	24. MEAN ANNUAL RUNOFF		5587	
									AC-FT.	
	21. MAX. ELEV.		1220	MIN. ELEV.		1050	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.		
	Jan. 8, 1940	-	-	-	-	380	3331	382		
	Jun. 22, 1950	10.5	10.5	R. Det.*	10	380	3126	358		
	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			
	June 22, 1950	39.2	-	-	-	-	-			
	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			
	June 22, 1950	204.7	19.50	2.40	204.7	19.50	2.40			
	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			
June 22, 1950	50 est.	2614	2614	0.59	6.15	-	-			

\*Range Detailed

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 June 18, 1954

U.S. DEPARTMENT OF AGRICULTURE  
**RESERVOIR SEDIMENTATION  
DATA SUMMARY**

Kiser Lake

SOIL CONSERVATION SERVICE  
19 - 20a  
DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER <u>Div. of Park and Wildlife</u>		2. RIVER <u>Mosquito Creek</u>		3. STATE <u>Ohio</u>			
	4. SEC. <u>22 TWP. 3</u> RANGE <u>12</u>		5. NEAREST TOWN <u>St. Paris</u>		6. COUNTY <u>Champaign</u>			
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <u>1067</u>			
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					Jan. 8, 1940		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	<u>1067</u>	<u>380</u>	<u>3330.90</u>	<u>3330.90</u>	1940		
	f. INACTIVE							
17. LENGTH OF RESERVOIR <u>2.07</u> MILES		AV. WIDTH OF RESERVOIR <u>0.29</u> MILES						
WATERSHED	18. TOTAL DRAINAGE AREA <u>8.73</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>37.7 (25 yr.)</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>8.14</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>12 (31 yr.)</u> INCHES					
	20. LENGTH <u>5.0</u> MILES		AV. WIDTH <u>1.75</u> MILES		24. MEAN ANNUAL RUNOFF <u>5587</u> AC.-FT.			
	21. MAX. ELEV. <u>1220</u>		MIN. ELEV. <u>1050</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>			
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.
	Jan. 8, 1940	-	-	-	-	380	3331	382
	Jan. 22, 1950	10.5	10.5	R. Det. *	10	380	3126	358
	1954	4	14.5	-	-	-	3040	348
	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	
	June 22, 1950	39.2						
	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	
	June 22, 1950	204.7	19.50	2.40	204.7	19.50	2.40	
1954	85.8	21.45	2.64	290.5	20.03	2.46		
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	
June 22, 1950	50 est.	2614	2614	0.59	6.15	-	-	
1954	39.7	2283	2127	0.61	8.90	-	-	

\*Range Detailed

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 Div. of Water			49. DATE			June 18, 1954		

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Kiser Lake  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

19-20c

DATA SHEET NO.

State of Ohio

DAM	1. OWNER <u>Div. of Pk. and Recreation</u>			2. STREAM <u>Mosquito Creek</u>			3. STATE <u>Ohio</u>									
	4. SEC. <u>22</u> TWP. <u>3</u> RANGE <u>12</u>			5. NEAREST TOWN <u>St. Paris</u>			6. COUNTY <u>Champaign</u>									
	7. STREAM BED ELEVATION <u>1050</u>			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. <u>1067</u>									
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. MULTIPLE USE															
	b. FLOOD CONTROL															
	c. POWER										Jan. 8, 1940					
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION		<u>1067</u>		<u>374</u>		<u>3215</u>		<u>3215</u>							
	g. SEDIMENT															
h. INACTIVE										1940						
WATERSHED	17. LENGTH OF RESERVOIR <u>2.07</u> MILES				AV. WIDTH OF RESERVOIR <u>0.28</u> MILES											
	18. TOTAL DRAINAGE AREA <u>8.73</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>37.0 (30)</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>8.15</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>12 (31 yr)</u> INCHES											
	20. LENGTH <u>5.0</u> MILES		AV. WIDTH <u>1.75</u> MILES		24. MEAN ANNUAL RUNOFF <u>5587</u> AC.-FT.											
	21. MAX. ELEV. <u>1220</u>		MIN. ELEV. <u>1050</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>											
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. PERSQ. MI.	
	Jan. 8, 1940										374 <u>1/</u>		3215 <u>1/</u>		368	
	Jun. 22, 1950		10.5		10.5		D. Range		11		374 <u>1/</u>		3010		345	
	July 1954		4.0		14.5		D. Range		11		374		2929		336	
	June 1962		8.0		22.5		D. Range		11		374		2867		328	
	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			
	June 22, 1950		39.2													
	July 1954		36.2													
	June 1962		38.1													
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				
June 22, 1950		205 <u>1/</u>		19.5		2.40		205 <u>1/</u>		19.5		2.40				
July 1954		81		20.2		2.48		286		19.7		2.42				
June 1962		62		7.75		0.95		348		15.5		1.90				
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM								
				a. PERIOD		b. TOTAL TO DATE		a. AV. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
June 22, 1950		50*		2610		2610		0.61		6.38						
July 1954		39.7		2144		2092		0.61		8.90						
June 1962								0.48		10.8						

\* estimated

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

1/ Original capacity revised from 3,331 acre feet reported in 1950 survey. Errors in 1950 map reduced the lake area from 380 to 374 acres. Sediment volumes reported for 1950 are about 3-1/2% too large.