

RESERVOIR SEDIMENT  
DATA SUMMARY  
SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Middle Fork Reservoir  
NAME OF RESERVOIR

19-53

DATA SHEET NO.

Middle Fork of East Fork

DAM	1. OWNER <u>Richmond Waterworks</u>		2. STREAM <u>White Water River</u>		3. STATE <u>Indiana</u>			
	4. SEC. <u>TWP. 14 N RANGE 1 W</u>		5. NEAREST P.O. <u>Richmond</u>		6. COUNTY <u>Wayne</u>			
	7. LAT. " " " " " " " "		8. TOP OF DAM ELEVATION <u>1,000.0</u>		9. SPILLWAY CREST ELEV. <u>971.0</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. FLOOD CONTROL					April 1961		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY	<u>971.0</u>	<u>175.0</u>	<u>3,250.0</u>	<u>3,250.0</u>	<u>3/</u>	16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						Jan. 1962	
	f. CONSERVATION							
	g. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR <u>1.67</u> MILES		AV. WIDTH OF RESERVOIR <u>0.11</u> ( <u>0.22 Main Body</u> ) MILES					
	18. TOTAL DRAINAGE AREA <u>48.11</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>37.65</u> (96 Yr.) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>47.87</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>12.5</u> (30 yr.) INCHES					
	20. LENGTH <u>14.77</u> MILES	AV. WIDTH <u>3.30</u> MILES	24. MEAN ANNUAL RUNOFF <u>32,091</u> 2/ (30 yr.) AC.-FT.					
	21. MAX. ELEV. <u>1,257</u>	MIN. ELEV. <u>927</u>	25. ANNUAL TEMP.: MEAN <u>50</u> RANGE <u>-20° to +105°</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/I. RATIO, AC.-FT. PER AC. FT.
	October 1967	5.5	5.5	Range (S)	12 (R)	175.0 173.10	Original 3,250 1/ 3,040.71	0.101 0.095
	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	
	October 1967	38.71	32,091		176,500	32,091	176,500	
	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	
	October 1967	209.29	38.05	0.79	209.29	38.05	0.79	
	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
October 1967	49.6 (3)	850	850	1.17	6.45	935	935	

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														
October 1967															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1962							
1963	972.2	964.7					
1964	972.0	957.4					
1965	973.5	961.5					
1966	971.5	966.0					
1967							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

1/ Calculated orig. cap. = 3,140 acre feet, used design capacity because of 2 foot contour map used by design engineer. No as-built contour map available.

2/ From "Low Dams Characteristics of Indiana Streams" 1962 by USGS and Indiana Stream Pollution Control Board, Period 1931-1960.

3/ Dam built to approx. 6,500 acre feet gross storage by raising gates.

48. AGENCY MAKING SURVEY Indiana Watershed Planning Party #2, SCS  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE October 1967