

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

UPPER WABASH SITE No. 1

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

17 -26

DATA SHEET NO.

DAM	1. OWNER <u>Wabash Conserv. Dist.</u>		2. STREAM <u>Wabash River</u>		3. STATE <u>Ohio</u>			
	4. SEC. <u>14</u> TWP. <u>14N</u> RANGE <u>2E</u>		5. NEAREST P.O. <u>New Weston</u>		6. COUNTY <u>Darke</u>			
	7. LAT. <u>40 19' 00"</u> LONG. <u>84° 38' 00"</u>		8. TOP OF DAM ELEVATION <u>1022.2</u>		9. SPILLWAY CREST ELEV. <u>1016.3</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	<u>1016.3</u>	<u>152.0</u>	<u>1291.5</u>	<u>1550.4</u>	<u>6/64</u>		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION							
g. INACTIVE	<u>1002.8</u>	<u>57.0</u>	<u>258.9</u>	<u>258.9</u>				
17. LENGTH OF RESERVOIR		<u>2.4</u>	MILES	AV. WIDTH OF RESERVOIR		<u>0.10</u> MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		<u>13.07</u>	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		<u>37.72</u> INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		<u>12.83</u>	SQ. MI.	23. MEAN ANNUAL RUNOFF		<u>9.23</u> INCHES	
	20. LENGTH	<u>10.9</u>	MILES	AV. WIDTH	<u>1.19</u>	MILES	24. MEAN ANNUAL RUNOFF	<u>6433.5</u> AC.-FT.
	21. MAX. ELEV.	<u>1080</u>	MIN. ELEV.	<u>985</u>	25. ANNUAL TEMP.: MEAN <u>51° F</u> RANGE <u>20° F-73.5° F</u>			
	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.
<u>6/64</u>	<u>0</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>152.0</u>	<u>1550.4</u>	<u>0.24</u>	
<u>8/71</u>	<u>7.2</u>	<u>7.2</u>	<u>Range (S)</u>	<u>21-R</u>	<u>152.0*</u>	<u>1522.1</u>	<u>0.24</u>	
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE FEET			36. WATER INFL. TO DATE, AC.-FT.		
	<u>8/71</u>		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
			<u>6434</u>			<u>283</u>	<u>313</u>	
26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET				
<u>8/71</u>	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI. YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI. YEAR		
	<u>28.3</u>	<u>3.9</u>	<u>0.31</u>	<u>28.3</u>	<u>3.9</u>	<u>0.31</u>		
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	
<u>8/71</u>	<u>55.9</u>	<u>372.9</u>	<u>372.9</u>	<u>0.25</u>	<u>1.83</u>			

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														
1970	15	27	19	21	12	6									
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							
Original Capacity-1964			1016.3	152.0	1550.4										
987.5	0.0	0.0	1017.0	161.0	1667.4										
995.0	2.9	10.9	1019.0	190.0	2015.9										
1000.0	38.7	114.9	1971 Capacity												
1003.0	57.3	258.9	1003.0	230.6											
1005.0	63.2	373.5													
1007.0	76.0	512.3													
1009.0	90.0	678.3													
1012.0	114.0	984.3													
1014.0	132.0	1230.9													
47. REMARKS AND REFERENCES															
1/ 2.0 miles - length main arm, 0.4 miles - length minor arm.															
Item 22 - based on rainfall gauge at Versailles, Ohio															
Item 23 - based on USGS stream gauge 3-3225 Wabash River at New Croydon, Ind.															
Items 35 & 36 - Estimated, based on Items 22 - 24															
Land Use Data in SCS Ohio State Office															
48. AGENCY MAKING SURVEY - SCS															
49. AGENCY SUPPLYING DATA - SCS															
50. DATE 8/5/76															

RESERVOIR SEDIMENT DATA SUMMARY

Upper Wabash Site No. 1

17- 26a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER			2. STREAM Wabash River			3. STATE Ohio									
	4. SEC. TWP. RANGE		5. NEAREST P.O. New Weston			6. COUNTY Darke										
	7. LAT. ° ' " LONG. ° ' "		8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.										
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		1016.3		152.0		1291.5		1550.4		6/64					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
RESERVOIR	f. CONSERVATION		1002.8		57.0		258.9		258.9		6/64					
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 2.4 MILES			AV. WIDTH OF RESERVOIR 0.10 MILES												
	18. TOTAL DRAINAGE AREA 13.07 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 37.72 INCHES												
	19. NET SEDIMENT CONTRIBUTING AREA 12.83 SQ. MI.			23. MEAN ANNUAL RUNOFF 9.23 INCHES												
	20. LENGTH 10.9 MILES			AV. WIDTH 1.19 MILES			24. MEAN ANNUAL RUNOFF 6433.5 AC.-FT.									
	21. MAX. ELEV. 1080			MIN. ELEV. 985			25. ANNUAL TEMP: MEAN 51°F RANGE 20°F-73.5°F									
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.	
	6/64		0		0						152.0		1550.4		0.24	
	8/71		7.2		7.2		Range (S)		21		152.0		1522.1 230.6		0.24 0.04	
	8/81		10.0		17.2		Range (D)		18		46.0		1455.0 163.2		0.23 0.03	
	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			
	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			
	8/71		28.3		3.9		0.31		28.3		3.9		0.31			
8/81		67.4		6.7		0.52		95.7		5.6		0.43				
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		
8/71		55.9		372.9		372.9		1.51		10.93						
8/81		54.4		615.1		513.7		0.36		6.17						

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,	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW,

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

47. REMARKS AND REFERENCES

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE \_\_\_\_\_