

RESERVOIR SEDIMENT DATA SUMMARY

Structure G-4

Busseron Creek Watershed
NAME OF RESERVOIR

17-30

DATA SHEET NO.

DAM	1. OWNER Private		2. STREAM Busseron Creek		3. STATE Indiana			
	4. SEC. 28 TWP. 10N RANGE 8W		5. NEAREST P.O. Lewis		6. COUNTY Vigo			
	7. LAT. 39° 16' 30" LONG. 87° 18' 20"		8. TOP OF DAM ELEVATION 562.0		9. SPILLWAY CREST ELEV. 557.0			
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	557.0	88	653.5	743.0	Sept. 1963		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					Sept. 1963		
	f. INACTIVE 1/	545.0	25.6	89.5	89.5			
WATERSHED	17. LENGTH OF RESERVOIR 0.538 ^{1/}		MILES		AV. WIDTH OF RESERVOIR 0.074 ^{1/}			
	18. TOTAL DRAINAGE AREA 3.56		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 41			
	19. NET SEDIMENT CONTRIBUTING AREA 3.42 ^{2/}		SQ. MI.		23. MEAN ANNUAL RUNOFF 12			
	20. LENGTH 2.27		MILES		AV. WIDTH 1.57			
			MILES		24. MEAN ANNUAL RUNOFF 2278			
21. MAX. ELEV. 670		MIN. ELEV. 536		25. ANNUAL TEMP.: MEAN 53.3 RANGE -7° to 97°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.
	9-1-63	-	-		-	25.6 ^{1/} 88.0 ^{2/}	89.5 ^{1/} 743.0 ^{2/}	.039 ^{1/} .326 ^{2/}
	6-1-76	12.75	12.75	Range (D)	5	20.5 ^{1/} 88.0 ^{2/}	58.0 ^{1/} 711.5 ^{2/}	.025 ^{1/} .312 ^{2/}
	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	
	No Data							
	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	
	6-1-76	31.5	2.47	0.72 ^{2/}	31.5	2.47	0.72 ^{2/}	
	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	
6-1-76	58.0	910 ^{2/}	910 ^{2/}	2.76 ^{1/} 0.33 ^{2/}	35.20 ^{1/} 4.24 ^{2/}			

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><u>1/</u> Sediment pool only.</p> <p><u>2/</u> Total reservoir below crest elevation (557.0'); sediment accumulation above elevation 545.0 considered negligible.</p> <p>Land use in watershed: 75 percent cropland, 8 percent pasture.</p> <p>Geology: thin Illinoian glacial till over Pennsylvanian shale, sandstone, and limestone.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE			Jan. 1977				
49. AGENCY SUPPLYING DATA				Soil Conservation Service											