

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

Sharon Woods Reservoir
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
19-42 a
DATA SHEET NO.

DAM	1. OWNER			2. RIVER Sharon Creek			3. STATE Ohio							
	4. SEC. TWP. RANGE			5. NEAREST TOWN Sharonville			6. COUNTY Hamilton							
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.							
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					1937 <u>1/</u>								
	b. POWER													
	c. WATER SUPPLY													
	d. IRRIGATION													
	e. CONSERVATION													
	f. INACTIVE	716.8	37.7	289	289									
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 4.88			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 4.82			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES				
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AG.-FT.	
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION							
	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.					
1939 <u>1/</u>		0	0			37.7	289	59						
1942		2.3	2.3				274	56						
1945		3.6	5.9				232	48						
1949		4.0	9.9				206	42						
SURVEY DATA	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		d. MEAN ANNUAL		e. TOTAL TO DATE		
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR						
	1942		14.1	6.13	1.27	14.1	6.13	1.27						
	1945		42.4	11.78	2.44	56.5	9.58	1.99						
	1949		26.5	6.63	1.38	83.0	8.38	1.74						
	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		c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD		f. TOT. TO DATE			
1942		70.*		1936.		2.1	4.9							
1945		70.*		3720		3.3	19.6							
1949		70*		2104		2.9	28.7							

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

Land Use: Cultivated, 58%; Idle 10%; Pasture 21%; Woods 11%

1/ Storage began in 1937, but the first survey by the Corps of Engineers was in 1939. No sediment measurements in 1939.

48. AGENCY SUPPLYING DATA Bulletin 24
Ohio Division of Water

49. DATE June 1955