U.S. DEPARTMENT OF AGRICULTURE — SOIL CONSERVATION SERVICE

RESERVOIR SEDIMENTATION DATA SUMMARY

Ohio Conservation Pond #51 (NAME OF RESERVOIR) — 21-13 (DATA SHEET NO.)

DAM

1. OWNER Div. of Conservation	2. RIVER Unnamed tributary to Ohio River	3. STATE Ohio
4. SEC. 18 TWP. 2 N RANGE 9 W	5. NEAREST TOWN Marietta	6. COUNTY Washington
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					Oct. 29, 1938
b. POWER					
c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN
d. IRRIGATION					
e. CONSERVATION		2.3	15.16	15.16	Oct. 29, 1938
f. INACTIVE					

17. LENGTH OF RESERVOIR ____ MILES; AV. WIDTH OF RESERVOIR ____ MILES

WATERSHED

18. TOTAL DRAINAGE AREA 0.13 SQ. MI.	22. MEAN ANNUAL PRECIPITATION 42.41 (108) INCHES
19. NET SEDIMENT CONTRIBUTING AREA 0.13 SQ. MI.	23. MEAN ANNUAL RUNOFF ____ INCHES
20. LENGTH ____ MILES; AV. WIDTH ____ MILES	24. MEAN ANNUAL RUNOFF 767 per sq.mi.* AC.-FT.
21. MAX. ELEV. ____ MIN. ELEV. ____	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.
Oct. 29, 1938	–	–	–	–	2.3	15.16	117
Nov. 16, 1939	1.1	1.1	Range Recon.	4	2.3	15.02	116

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
Nov. 16, 1939		869 per sq.mi. *			869 per sq.mi. *	

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
Nov. 16, 1939	0.14	0.127	0.977	0.14	0.127	0.977

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
Nov. 16, 1939	40 *	851	851	0.84	0.92	800 *	800 *

* 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 LENGH 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

Sanderson, E. E. Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.

Brune, Gunnar M. Rates of sediment production in midwestern United States. U. S. Dept. of Agric., SCS-TP-65, 40 pp., illus., processed, Milwaukee, Wisconsin, August 1948; Revised December 1948.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service
U. S. Department of Agriculture
Milwaukee, Wisconsin

49. DATE July 21, 1949

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