

RESERVOIR SEDIMENTATION
DATA SUMMARY

Zanesville Nursery Lake

21 - 20

NAME OF RESERVOIR

DATA SHEET NO.

B-15

DAM	1. OWNER U.S.D.A. Soil Conserv. Serv.			2. RIVER N. Br. Blount Run			3. STATE Ohio									
	4. SEC. TWP. 2N RANGE 7W			5. NEAREST TOWN Zanesville			6. COUNTY Muskingum									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 757.45									
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									Dec. 1936						
	b. POWER															
	c. WATER SUPPLY									16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION		757.45		12.84		76.62		76.62	Dec. 1936						
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA				2.95		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				37		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA				2.93		SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				766 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.								
	Dec. 1936	-	-	-	-	12.84	76.62	26.0								
	July 17, 1941	4.6	4.6	Range recon.	9	12.84	72.23	24.5								
	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								
	July 17, 1941			987 per * sq. mi.			987 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR									
	July 17, 1941	4.39 1/	0.954	0.326	4.39	0.954	0.326									
	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									
July 17, 1941	65 *	462	462	1.25	5.73											

1/ Includes 1.64 ac. ft. of sediment deposited during storm of July 7, 1941. (see remarks)

* Assumed

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
 Although only one survey was made, it was possible to distinguish the sediment which was brought in during the storm of July 7, 1941 from that deposited previously. During this storm, 5.07 inches of rain fell on the drainage area in 2 hours 15 minutes.
 Sanderson, E. E., Sedimentation of Reservoirs in Ohio, Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.
 Region 3, Soil Conservation Service
 U. S. Dept. of Agriculture
 Milwaukee, Wisconsin

48. AGENCY SUPPLYING DATA

49. DATE Sept. 23, 1949