

13-5

RESERVOIR SEDIMENTATION DATA SUMMARY

Senecaville Reservoir

21-2

NAME OF RESERVOIR

DATA SHEET NO.

1. OWNER <u>Dept of Army, C of E</u>		2. RIVER <u>Seneca Fork</u>		3. STATE <u>Ohio</u>			
4. SEC. <u>5</u> TWP. <u>8N</u> RANGE <u>8W</u>		5. NEAREST TOWN <u>Senecaville</u>		6. COUNTY <u>Noble</u>			
7. STREAM BED ELEV. <u>810</u>		8. TOP OF DAM ELEV. <u>857.0</u>		9. SPILLWAY CREST ELEV. <u>842.5</u>			
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	<u>842.5</u>	<u>5170</u>	<u>15,000</u>	<u>88,500</u>	<u>10 Oct 1936</u>	
	b. POWER						
	c. WATER SUPPLY						
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN	
	e. CONSERVATION	<u>832.2</u>	<u>3550</u>	<u>13,500</u>	<u>13,500</u>		
f. INACTIVE					<u>15 Mar 1942</u>		
17. LENGTH OF RESERVOIR (<u>thalweg</u>) <u>11.5</u> MILES		AV. WIDTH OF RESERVOIR <u>0.77</u> MILES					
WATERSHED	18. TOTAL DRAINAGE AREA <u>121</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>40.66 (8.3 yrs)</u> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <u>113</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>14.25</u> INCHES				
	20. LENGTH <u>15.3</u> MILES	AV. WIDTH <u>7.9</u> MILES	24. MEAN ANNUAL RUNOFF <u>91,980</u> AC.-FT.				
	21. MAX. ELEV. <u>1340</u>	MIN. ELEV. <u>810</u>	25. CLIMATIC CLASSIFICATION <u>Humid</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
<u>10 Oct 1936</u>					<u>5170</u>	<u>88,500</u>	<u>731</u>
<u>7 Mar 1945</u>	<u>8.3 -</u>	<u>8.3</u>	<u>Range(D)</u>	<u>22</u>	<u>5170</u>	<u>87,667</u>	<u>725</u>
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	
<u>7 Mar 1945</u>	<u>40.66</u>	<u>99,991</u>	<u>2/</u>	<u>130,864</u>	<u>2/</u>	<u>639,943</u>	<u>2/</u>
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.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.	
<u>7 Mar 1945</u>	<u>833</u>	<u>100</u>	<u>0.89</u>	<u>833</u>	<u>100</u>	<u>0.89</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. TO DATE	a. PERIOD	b. TO DATE
<u>7 Mar 1945</u>	<u>65*</u>	<u>1260</u>	<u>1260</u>	<u>0.113</u>	<u>0.941</u>	<u>1356</u>	<u>2/ 1356 2/</u>

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															
7 Mar 1945	47.3	18.2	4.0	26.5	4.0	0	0	0	0	0					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1937 3/	830.2	809.4	Not available				
1938	822.0	812.8	Not available				
1939	823.6	812.7	96,404				
1940	829.1	812.4	109,419				
1941	826.5	819.9	76,932				
1942	834.6	824.8	86,899				
1943	835.7	830.7	130,864				
1944	833.1	827.5	66,357				
1945 4/	836.8	827.3	73,068				

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

47. REMARKS AND REFERENCES Reference: Report on Sedimentation Survey, Senecaville Reservoir, Muskingum Basin, Ohio, September 1945.
 Sediment is fine textured silt throughout and varies in color from yellowish-red to very dark brown.
 1/ Date storage began. Sediment ranges established and surveyed in December 1937 by Soil Conservation Service, USDA.
 2/ Based on 6.4 years of record. Data not available for 1937 and 1938.