

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Havard Mason  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21-50  
DATA SHEET NO.

<b>DAM</b>	1. OWNER Havard Mason				2. STREAM Salem Fork		3. STATE West Virginia	
	4. SEC. TWP. RANGE		5. NEAREST TOWN Salem		6. COUNTY Harrison			
	7. STREAM BED ELEVATION 1125				8. TOP OF DAM ELEVATION 1150.8		9. SPILLWAY CREST ELEV. 1132.7	
<b>RESERVOIR</b>	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. MULTIPLE USE							
	b. FLOOD CONTROL		1148.1		6.75 1/	62.82	69.58	October 1954
	c. POWER							
	d. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN
	e. IRRIGATION							
	f. CONSERVATION							October 1954
	g. SEDIMENT		1132.7		0.92 1/	6.76	-	
h. INACTIVE								
<b>WATERSHED</b>	17. LENGTH OF RESERVOIR 0.26 MILES				AV. WIDTH OF RESERVOIR 0.04 MILES			
	18. TOTAL DRAINAGE AREA 0.29 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 42.0 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 0.29 SQ. MI.				23. MEAN ANNUAL RUNOFF 17 INCHES			
	20. LENGTH 0.80 MILES		AV. WIDTH 0.36 MILES		24. MEAN ANNUAL RUNOFF 248.5 AC.-F.T.			
	21. MAX. ELEV. 1480		MIN. ELEV. 1125		25. CLIMATIC CLASSIFICATION Humid			
<b>SURVEY DATA</b>	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. PERSQ. MI.
	10/54	0	0	Range	19	69.58	69.58	239.9
	10/56	2	2	(D)	"	2/	68.95	237.8
	10/58	2	4		"	2/	68.77	237.1
	12/60	2.2	6.2		"	2/	68.60	236.6
	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		
	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	
10/56	0.63	0.315	1.09	0.63	0.315	1.09		
10/58	0.18	0.090	0.31	0.81	0.203	0.70		
12/60	0.17	0.077	0.27	0.98	0.158	0.55		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
10/56	60 3/	1424.4	1424.4	0.452	0.91			
10/58		405.1	914.8	0.292	1.16			
10/60		352.8	718.7	0.227	1.41			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	-7.7	1132.7	7715.4									
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
10/56	23.3		76.7									
10/58	29.7		70.3									
10/60	33.7		66.3									

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

1/ Data from Table 3, Watershed Work Plan, (SCS)  
 2/ Data not available  
 3/ Assumed

48. AGENCY MAKING SURVEY      SCS, USDA  
 49. AGENCY SUPPLYING DATA    SCS, USDA

50. DATE    Aug. 1965

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Knox Lake

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21 - 50

DATA SHEET NO.

State of Ohio

DAM	1. OWNER <b>Div. of Wildlife</b>		2. STREAM <b>E. Branch Kokosing</b>		3. STATE <b>Ohio</b>			
	4. SEC. TWP. <b>8N</b> RANGE <b>13W</b>		5. NEAREST P.O. <b>Fredericktown</b>		6. COUNTY <b>Knox</b>			
	7. LAT. <b>40°29'48"</b> LONG. <b>82°31'36"</b>		8. TOP OF DAM ELEVATION <b>1117</b>		9. SPILLWAY CREST ELEV. <b>1100</b>			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES			
	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION		<b>1100</b>		<b>474</b>			
	g. INACTIVE				<b>3502</b>			
				<b>3502</b>		15. DATE STORAGE BEGAN <b>Fall 1949</b> <b>May 1954</b>		
						16. DATE NORMAL OPER. BEGAN <b>May 1954</b>		
17. LENGTH OF RESERVOIR		<b>3.41</b>		MILES		AV. WIDTH OF RESERVOIR		
						<b>0.22</b>		
						MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		<b>31.4</b>		SQ. MI.			
	19. NET SEDIMENT CONTRIBUTING AREA		<b>30.66</b>		SQ. MI.			
	20. LENGTH		<b>10.0</b>		MILES			
	21. MAX. ELEV.		<b>1,450</b>		MIN. ELEV.			
					<b>1069</b>			
						22. MEAN ANNUAL PRECIPITATION <b>37.5 (30)</b> INCHES		
						23. MEAN ANNUAL RUNOFF <b>14.3 (30)</b> INCHES		
						24. MEAN ANNUAL RUNOFF <b>23,900</b> AC.-F.T.		
						25. ANNUAL TEMP.: MEAN <b>49.6</b> RANGE <b>-10 to 95 2/</b>		
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.
	<b>1949</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>474</b>	<b>3,502</b>	<b>0.146</b>
	<b>Aug. 1960</b>	<b>7.0</b>	<b>7.0</b>	<b>D. Range</b>	<b>30</b>	<b>474</b>	<b>3,399</b>	<b>0.142</b>
	<b>July 1970</b>	<b>10.0</b>	<b>17.0</b>	<b>D. Range</b>	<b>30</b>	<b>474</b>	<b>3,283</b>	<b>0.137</b>
	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	
	<b>Aug. 1960</b>	<b>38.4</b>						
	<b>July 1970</b>	<b>37.2</b>						
	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	
<b>Aug. 1960</b>	<b>103</b>	<b>14.7</b>	<b>0.480</b>	<b>103</b>	<b>14.7</b>	<b>0.480</b>		
<b>July 1970</b>	<b>116</b>	<b>11.6</b>	<b>0.378</b>	<b>219</b>	<b>12.9</b>	<b>0.420</b>		
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	
<b>Aug. 1960</b>				<b>0.42</b>	<b>2.94</b>			
<b>July 1970</b>				<b>0.37</b>	<b>6.25</b>			

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

1/ Gate closed Fall 1949  
 Drained March 1950  
 Gate closed May 1954

2/ Annual extreme temperatures expressed at 50 percent probability levels.

48. AGENCY MAKING SURVEY Ohio Division of Water  
 49. AGENCY SUPPLYING DATA Ohio Division of Water

50. DATE January 14, 1972