

# RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-62

## Atkisson Reservoir

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

4-7a

DATA SHEET NO.

DAM	1. OWNER U. S. Army			2. STREAM Winter's Run			3. STATE Maryland									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Bel Air			6. COUNTY Harford									
RESERVOIR	7. STREAM BED ELEVATION 82			8. TOP OF DAM ELEVATION 120			9. SPILLWAY CREST ELEV. 120									
	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-Feet		14. GROSS STORAGE ACRE-Feet							
	a. MULTIPLE USE								15. DATE STORAGE BEGAN							
	b. FLOOD CONTROL								1942							
	c. POWER															
	d. WATER SUPPLY		120.0		60.8		896.19		896.19							
	e. IRRIGATION								16. DATE NORMAL OPER. BEGAN							
	f. CONSERVATION															
	g. SEDIMENT								1942							
	h. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.9 MILES				AV. WIDTH OF RESERVOIR 0.1 MILES											
	18. TOTAL DRAINAGE AREA 45.46 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 39.85 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 45.35 SQ. MI.				23. MEAN ANNUAL RUNOFF 15 INCHES											
	20. LENGTH 13 MILES		AV. WIDTH 3.5 MILES		24. MEAN ANNUAL RUNOFF 36,366 AC.-FT.											
	21. MAX. ELEV. 720		MIN. ELEV. 82		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.	
	1942		0		0		-		-		60.8		896.19		19.71	
	1954		12		12		Range		11		60.8		705.32		15.52	
	1965		11		23		Range(D)		11		60.1		617.06		13.57	
	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			
	5/54				36,322		-		435,864		36,322		435,864			
	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			
	May 1954		190.87		15.91		.351		190.87		15.91		.351			
	Jun 1965		88.26		8.02		.177		279.13		12.14		.268			
	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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
	May 1954		60*		459		459		1.78		21.29		421		421	
	Jun 1965				231		350		1.35		31.15					

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															
<p>* Assumed</p> <p>C/I ratio = 0.025 in 1942; 0.019 in 1954; 0.017 in 1965</p>															
48. AGENCY MAKING SURVEY Md. Watershed Planning Party, SCS, USDA															
49. AGENCY SUPPLYING DATA SCS, USDA														50. DATE June 1965	