

RESERVOIR SEDIMENT DATA SUMMARY

Harmon Creek Site 14  
NAME OF RESERVOIR

21 - 67  
DATA SHEET NO.

1. OWNER Starvagi, Michael J.		2. STREAM Alexanders Run		3. STATE West Virginia			
4. SEC. TWP. RANGE		5. NEAREST P. O. Colliers, WV		6. COUNTY Brooke			
7. LAT. 40° 22' 52" LONG 80° 32' 36"		8. TOP OF DAM ELEVATION 887.9		9. SPILLWAY CREST ELEV. 876.5			
RESERVOIR	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. FLOOD CONTROL	876.5	18.40	317.7	372.1	8-68	
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						
	f. CONSERVATION					8-68	
	g. INACTIVE 1/	846.0	6.92	54.4	54.4		
17. LENGTH OF RESERVOIR		0.23 MILES		AV. WIDTH OF RESERVOIR 0.07 MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 1451 AC.		2.267 SQ. MI.	22. MEAN ANNUAL PRECIPITATION (8 yr) 39.21 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA		2.227 SQ. MI.	23. MEAN ANNUAL RUNOFF 14 INCHES			
	20. LENGTH 2.52 MILES		AV. WIDTH 0.90 MILES	24. MEAN ANNUAL RUNOFF 1693 AC.-FT.			
	21. MAX. ELEV. 1220		MIN. ELEV. 835	25. ANNUAL TEMP.: MEAN 51.9 RANGE 30.2-72.7			
	25. 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
8-68	-	-	Original	-	6.92 1/ 18.40 2/	54.4 1/ 372.1 2/	0.220 0.220
7-78	9.92	9.92	Range	8 ranges	4.70 1/ 18.40 2/	17.28 1/ 335.0 2/	0.166 0.198
SURVEY DATA	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
	7-78	39.21	1,693	6,097	16,794	1,693	16,794
	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	
7-78	37.12	3.74	1.67	37.12	3.74	1.67	
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
7-78	59.9 lb/ft <sup>3</sup>	2181.76	2181.76	1.01	9.98	2122	2122

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	876-74	874-70	870-66	866-62	862-58	858-54	854-50	850-46	846-42	842-38	838-34	834-30		
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
7-78						1%	7%	15%	28%	31%	17%	1%		
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
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
7-78	28%	23%	19%	14%	6%	3%	2%	1%	2%	2%				
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.							
No data														
46. ELEVATION-AREA-CAPACITY DATA														
Ac-Ft														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
Original Capacity -	1968		846		55	862		120.9						
876.5		330	842		31	858		97.9						
874		309	838		14	854		75.3						
870		239	834		4	850		55.6						
866		187	1978 Capacity			846		36.1						
862		158	876.5		292.9	842		22.5						
858		135	874		271.9	838		11.0						
854		112	870		201.9	834		3.6						
850		86	866		149.9									
47. REMARKS AND REFERENCES														
1/ Sediment pool only design data.														
2/ Total reservoir below crest elevation (876.5') design data.														
48. AGENCY MAKING SURVEY				49. AGENCY SUPPLYING DATA				50. DATE						
				Soil Conservation Service				2-6-79						