

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

FERNOW EXPERIMENTAL FOREST

WATERSHED #1

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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21-8

DATA SHEET NO.

DAM	1. OWNER USDA (For. Serv.)			2. STREAM Tributary(Elk Lick)			3. STATE WV									
	4. SEC. TWP. RANGE		5. NEAREST P. O. Parsons, WV26287			6. COUNTY Tucker										
	7. LAT. 39° 3' 30" LONG. 79° 39' 30"			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.									
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										16. DATE NORMAL OPER. BEGAN					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA				.11625		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				55.53			
	19. NET SEDIMENT CONTRIBUTING AREA						SQ. MI.		23. MEAN ANNUAL RUNOFF				22.92			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				142.104			
	21. MAX. ELEV.		2603		MIN. ELEV.		2040		25. ANNUAL TEMP.: MEAN 48°F. RANGE 38°F. - 57°F.							
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.	
	7/1/64*		.7		.7		Cleaned Basin				.00626		.025		.000176	
	7/15/65		1.0		1.7		" "				"		"		"	
	9/15/66		1.2		2.9		" "				"		"		"	
	8/15/68		1.9		4.8		" "				"		"		"	
	8/15/70		2.0		6.8		" "				"		"		"	
	8/15/73		3.0		9.8		" "				"		"		"	
	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			
	7/1/64		58.10		145.70				102.0							
7/15/65		54.90		134.73				134.73								
9/15/66		43.15		80.29				96.35								
8/15/68		50.41		125.36				238.18								
8/15/70		52.78		130.66				261.32								
8/15/73		59.83		159.28				477.84								
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				
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		
7/1/64		53.0		26.94												
7/15/65		"		17.62												
9/15/66		"		25.90												
8/15/68		"		27.19												
8/15/70		"		33.16												
8/15/73		"		23.82												

*/ All weir basins were cleaned 10/15/63. At ea. date listed, all sediment was removed from the weir ponds. Used a conversion Factor of 53.0/lbs/cu.ft. on all weirs.

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Watershed #1 continued

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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DATA SHEET NO.

DAM	1. OWNER USDA (Forest Service)			2. STREAM			3. STATE WV							
	4. SEC. TWP.		RANGE		5. NEAREST P. O.			6. COUNTY						
	7. LAT. " "		LONG. " "		8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.						
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													
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION													
g. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AC.-F.T.	
	21. MAX. ELEV.			MIN. ELEV.			25. ANNUAL TEMP.: MEAN						RANGE	
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.	
	10/15/75		2.2	12.0	Cleaned Basin				.00626		.025		.000176	
	7/15/78		2.7	14.7	" "				"		"		"	
	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	
	10/15/75		63.90		178.19				392.02					
	7/15/78		51.72		126.52				341.61					
	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	
	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		
10/15/75		53.0		16.26										
7/15/78		"		27.19										