

RESERVOIR SEDIMENT  
DATA SUMMARY

FERNOW EXPERIMENTAL FOREST  
WATERSHED #4

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

DATA SHEET NO. 21-71

DAM	1. OWNER USDA (Forest Service)			2. STREAM Tributary (Elk Lick)			3. STATE WV									
	4. SEC. TWP. RANGE			5. NEAREST P.O. Parsons, WV 26287			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															
	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 .1495312				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 55.53				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.		23. MEAN ANNUAL RUNOFF 24.61				INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 196.26				AC.-FT.							
	21. MAX. ELEV. 2842			MIN. ELEV. 2420			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				.00730		.02918		.0001486	
	9/15/66		2.2		2.9		" "				"		"		"	
	8/15/68		1.9		4.8		" "				"		"		"	
	8/15/70		2.0		6.8		" "				"		"		"	
	8/15/73		3.0		9.8		" "				"		"		"	
	10/15/75		2.2		12.0		" "				"		"		"	
	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			
	7/1/64		58.10		204.32				143.02							
	9/15/66		49.02		139.92				307.82							
	8/15/68		50.41		169.63				322.30							
	8/15/70		52.78		177.04				354.08							
	8/15/73		59.83		224.76				674.28							
	10/15/75		63.90		246.91				543.20							
	7/15/78		51.72		176.27				475.93							
	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		18.32												
9/15/66		"		7.25												
8/15/68		"		6.67												
8/15/70		"		8.21												
8/15/73		"		9.76												
10/15/75		"		9.81												
7/15/78		"		13.04												

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															
48. AGENCY MAKING SURVEY															
49. AGENCY SUPPLYING DATA															
50. DATE															