

RESERVOIR SEDIMENT

FERNOW EXPERIMENTAL FOREST

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

WATERSHED #7

NAME OF RESERVOIR

SCS-34 Rev. 6-66

1-2-14-21-74  
DATA SHEET NO.

DAM	1. OWNER USDA (Forest Service)		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							
	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 .0935937 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 55.53 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA SQ. MI.			23. MEAN ANNUAL RUNOFF 36.25 INCHES				
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 180.95 AC.-FT.			
	21. MAX. ELEV. 2810		MIN. ELEV. 2390		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		.0078948	.0236844	.000131
	8/15/68	4.1	4.8	" "		"	"	"
	8/15/73	5.0	9.8	" "		"	"	"
	10/15/75	2.2	12.0	" "		"	"	"
	8/15/76	.8	12.8	" "		"	"	"
	7/15/78	1.9	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	152.64	106.85				
8/15/68	49.72	154.63	633.98					
8/15/73	57.01	198.87	994.35					
10/15/75	63.90	222.35	489.17					
8/15/76	51.17	148.75	119.00					
7/15/78	51.99	155.32	295.11					
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 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	
7/1/64	53.0	21.09						
8/15/68	"	9.11						
8/15/73	"	8.52						
10/15/75	"	13.53						
8/15/76	"	27.35						
7/15/78	"	27.33						

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 _____															