

RESERVOIR SEDIMENT

FERNOW EXPERIMENTAL FOREST

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

WATERSHED #5

SCS-34 Rev. 6-66

NAME OF RESERVOIR

6-2-72 21-72  
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 140625 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 55.53 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA SQ. MI.			23. MEAN ANNUAL RUNOFF 29.55 INCHES				
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 221.62 AC.-FT.			
	21. MAX. ELEV. 2703		MIN. ELEV. 2355		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		.0105762	.0317286	.0001431
	8/15/67	3.1	3.8	" "		"	"	"
	8/15/68	1.0	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	248.85		174.19			
	8/15/67	49.39	184.35		571.48			
	8/15/68	50.72	206.85		206.85			
	8/15/70	52.78	208.91		417.82			
	8/15/73	59.83	263.12		789.36			
	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	28.22						
8/15/67	"	17.98						
8/15/68	"	22.44						
8/15/70	"	23.16						
8/15/73	"	22.86						

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
	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														