

RESERVOIR SEDIMENTATION
DATA SUMMARY

Byllesby Reservoir

19 - 12

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Appalachian Elect. Power Co.			2. RIVER New River			3. STATE Virginia				
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Byllesby			6. COUNTY Carroll				
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 2,087.3 ^{1/}				
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL					16. DATE NORMAL OPER. BEGAN Aug. 1912					
	b. POWER	2,087 ^{1/}	340.5	8,892	8,892						
	c. WATER SUPPLY										
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										
17. LENGTH OF RESERVOIR		3.4	MILES	AV. WIDTH OF RESERVOIR		0.1	MILES				
WATERSHED	18. TOTAL DRAINAGE AREA		1310	SQ. MI.	22. MEAN ANNUAL PRECIPITATION					INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		1310	SQ. MI.	23. MEAN ANNUAL RUNOFF					INCHES	
	20. LENGTH		MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF					AG.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION					Humid	
	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/W RATIO AC.-FT. PER SQ. MI.		
Aug. 1912	-	-	-	-	-	341	8,892	6.79			
May 1936	23.66	23.66	Contour detailed	5 ft.		335	3,538	2.70			
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				
SURVEY DATA	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.						
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR				
	May 1936	5,354	226	0.184 ^{2/}	5,354	226	0.184 ^{2/}				
SURVEY DATA	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
	May 1936				2.54	60.21					

^{1/} Local datum to top of flashboards.

^{2/} Based on total sediments in Washington Mills, Buck, Byllesby and Fields reservoirs; total drainage area 1320 square miles.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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															
<p>Brown, C. B., and Barnes, F. F. Advance report on the sedimentation investigations of reservoir and navigation improvements on the New River, Virginia and West Virginia, U. S. Soil Conserv. Serv., SCS-38-6, 24 pp., illus., processed, Washington, D.C., August 1936.</p> <p style="text-align: center;">Region 2, Soil Conservation Service U. S. Dept. of Agriculture Spartanburg, South Carolina</p>															
48. AGENCY SUPPLYING DATA										49. DATE <u>October 1950</u>					