

RESERVOIR SEDIMENTATION
DATA SUMMARY

Prettyboy

4 - 2 a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <u>Dept. of Public Works, Baltimore</u>			2. RIVER <u>Gunpowder Falls</u>		3. STATE <u>Maryland</u>						
	4. SEC. <u>TWP.</u> RANGE			5. NEAREST TOWN <u>Hereford</u>		6. COUNTY <u>Baltimore</u>						
	7. STREAM BED ELEV. <u>387</u>			8. TOP OF DAM ELEV. <u>540</u>		9. SPILLWAY CREST ELEV. <u>520</u>						
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										April 10, 1933	
	b. POWER											
	c. WATER SUPPLY		<u>520</u>		<u>1498</u>		<u>60,979</u>		<u>60,979</u>		16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION										October 1933	
f. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <u>7.25</u> MILES				AV. WIDTH OF RESERVOIR <u>.32</u> MILES							
	18. TOTAL DRAINAGE AREA <u>80</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>42.53</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>77.5</u> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <u>12</u> MILES		AV. WIDTH <u>6.67</u> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <u>920</u>		MIN. ELEV. <u>387</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>							
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 _w RATIO AC.-FT. PER SQ. MI.		
	April 1933		-	-	-	-	1498	60,979		762		
	Oct. 1943		10.5	10.5	Range Recon.	14	1498	60,410*		755		
	Sept. 1961		18	28.5	"	23	1467	59,864		748		
	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	
	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		a. TOTAL TO DATE		b. AV. ANNUAL	c. PER SQ. MI.-YEAR		
	Oct. 1943		569	54.2	.699		569		54.2	.699		
Sept. 1961		546	30.3	.391		1115		39.1	.504			
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				
Oct. 1943		60**	913	913	0.09	0.93						
Sept. 1961		64.2	547	705	0.06	1.83						

* Revised after 1961 survey

** Assumed

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
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 style="margin: 0;">Gottschalk, L.C. Report on the Sedimentation Surveys of Loch Raven and Prettyboy Reservoirs, Baltimore, Md. U.S.D. . ., SCS, Special Report 5, 21 pp., illus., processed Washington, D.C. 1943</p>														
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">48. AGENCY SUPPLYING DATA</div> <div style="width: 40%; text-align: center;"> Central Technical Unit Soil Conservation Service Beltsville, Maryland </div> <div style="width: 25%;">49. DATE <u>Oct. 31, 1961</u></div> </div>														