

RESERVOIR SEDIMENTATION
DATA SUMMARY

Elmhurst
NAME OF RESERVOIR

Water Co.

4-4
DATA SHEET NO.

DAM	1. OWNER Scranton-Spring Brook/		2. RIVER Roaring Brook		3. STATE Pennsylvania			
	4. SEC. - TWP. - RANGE -		5. NEAREST TOWN Scranton		6. COUNTY Lackawanna			
	7. STREAM BED ELEV. 1377.94		8. TOP OF DAM ELEV. 1431.48		9. SPILLWAY CREST ELEV. 1422.48			
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					1890		
	b. POWER							
	c. WATER SUPPLY	1422.48	194	3746	3746	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION					1890		
	f. INACTIVE							
17. LENGTH OF RESERVOIR		1.2	MILES	AV. WIDTH OF RESERVOIR		.2		
WATERSHED	18. TOTAL DRAINAGE AREA		34.85	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		37.19 (40)	
	19. NET SEDIMENT CONTRIBUTING AREA		34.55	SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH	8.5	MILES	AV. WIDTH	4	MILES	24. MEAN ANNUAL RUNOFF	
	21. MAX. ELEV.		2100	MIN. ELEV.	1378	25. CLIMATIC CLASSIFICATION		Humid
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.
	1890	-	-	-	-	194	3746	108
	May 1941	51	51	Range Recon.	10	194	3686	106
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.- YEAR	
	May 1941	60	1.18	.034	60	1.18	.034	
	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 1941				0.03	1.60			

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

Region 1, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Upper Darby, Pennsylvania

49. DATE July 1950