

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Pelto Dam ^{3/}
NAME OF RESERVOIR

4- 8a

DATA SHEET NO.

SCS-34 Rev. 6-66

DAM	1. OWNER Pelto			2. STREAM Dean Creek			3. STATE New York							
	4. SEC. TWP. RANGE			5. NEAREST P.O. Spencer			6. COUNTY Tioga							
	7. LAT. 42° 13' " LONG. 76° 32' "			8. TOP OF DAM ELEVATION 1376.50			9. SPILLWAY CREST ELEV. 1373.88							
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		1373.88		4.73		53.4		56.04		7/55			
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN			
	c. POWER										7/55			
	d. WATER SUPPLY													
	e. IRRIGATION													
	f. CONSERVATION													
	g. INACTIVE		1353.50		0.782		2.64		2.64					
WATERSHED	17. LENGTH OF RESERVOIR				0.04 MILES		AV. WIDTH OF RESERVOIR				0.18 MILES			
	18. TOTAL DRAINAGE AREA				0.41 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				34.28 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				0.41 SQ. MI.		23. MEAN ANNUAL RUNOFF				19.75 INCHES			
	20. LENGTH		0.8 MILES		AV. WIDTH		0.5 MILES		24. MEAN ANNUAL RUNOFF				432.0 AC.-FT.	
	21. MAX. ELEV.		1700		MIN. ELEV.		1340 ^{1/}		25. ANNUAL TEMP: MEAN RANGE					
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.					
	7/55		-	-	-	-	4.73	56.04	.130					
	8/57		2	2	Range	2 (R)	4.73	55.90	.129					
	6/21/66		8.9	10.9	Range	2 (R)	4.73	55.60	.128					
	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					
	7/55													
	8/57		35.99		453.6	-	907.2	429.6	4682.6					
	6/21/66		33.70		424.2	-	3775.4							
	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							
7/55														
8/57		0.14	0.07	0.170	0.14	0.07	0.170							
6/21/66		0.30	0.034	0.083	0.44 ^{2/}	0.04	0.098							
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						
8/57		80.0*	296	296	0.126	0.25								
6/21/66		79.2**	141	169	0.072	0.79								

*Assumed Weight

**Actual Weight

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															
<p>1/ Minimum elevation based on topo sheet 2/ Total percent of sediment pool lost - 16.6% 3/ Revised and corrected 10/11/68</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service, Syracuse, N. Y.															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 10/11/68															