

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Patterson Creek - Site #1

SCS-34 Rev. 6-66

NAME OF RESERVOIR

4 - 19b

DATA SHEET NO.

DAM	1. OWNER Broome County, NY			2. STREAM Patterson Creek			3. STATE New York					
	4. SEC. TWP. RANGE		5. NEAREST P.O. Endwell			6. COUNTY Broome						
	7. LAT. 42° 08'		" LONG. 76° 01'		8. TOP OF DAM ELEVATION 1041.3		9. SPILLWAY CREST ELEV. 1034.0					
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		1034.0		51.2		84.8		891.4		7/4/67	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION											
g. INACTIVE		998.0		7.6		43.4		43.4		7/4/67		
WATERSHED	17. LENGTH OF RESERVOIR .64 MILES				AV. WIDTH OF RESERVOIR .125 MILES							
	18. TOTAL DRAINAGE AREA 4.3 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 36.5 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 4.22 SQ. MI.				23. MEAN ANNUAL RUNOFF 17.0 INCHES							
	20. LENGTH 4.0 MILES		AV. WIDTH 1.07 MILES		24. MEAN ANNUAL RUNOFF 3898.4 AC.-FT.							
	21. MAX. ELEV. 1600		MIN. ELEV. 980		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.			
	10/68		-	-	Range	26	51.2	891.40	.229			
	10/70		2.0	2.0	"	14	51.2	887.95	.228			
	8/72		1.8	3.8	"	16	51.2	887.69	.228			
	9/74		2.1	5.9	"	12	51.2	887.07	.228			
	10/77		3.1	9.0	"	12	51.2	885.56	.227			
	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 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				
	10/68		-	-	-	-	-	-				
	10/70		3.45	1.725	0.409	3.45	1.725	0.409				
	8/72		0.26	0.144	0.034	3.71	0.976	0.231				
	9/74		0.62	0.295	0.070	4.33	0.734	0.174				
10/77		1.51	0.487	0.115	5.84	0.649	0.154					
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					
10/68		-	-	-	-	-	-					
10/70		80.0*	712.2	712.2	0.193	0.386						
8/72		"	59.6	403.1	0.109	0.416						
9/74		"	121.9	303.0	0.082	0.485						
10/77		"	201.1	267.9	0.073	0.654						

*Assumed

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