

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Ischua Creek - Site #5  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21-56  
DATA SHEET NO.

DAM	1. OWNER <b>See Item 47</b>			2. STREAM <b>Gates Creek</b>			3. STATE <b>New York</b>								
	4. SEC. TWP. RANGE			5. NEAREST P.O. <b>Franklinville</b>			6. COUNTY <b>Cattaraugus</b>								
	7. LAT <b>42° 19'</b> " LONG. <b>78 24'</b> "			8. TOP OF DAM ELEVATION <b>1789.2</b>			9. SPILLWAY CREST ELEV. <b>1782.0</b>								
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		1782.0		75		1031		1085		8/30/62				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE		1752.0		7.4		54.0		54.0		4/63				
WATERSHED	17. LENGTH OF RESERVOIR				6.4 MILES		AV. WIDTH OF RESERVOIR				0.19 MILES				
	18. TOTAL DRAINAGE AREA				6.4 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				38.8 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA				6.28 SQ. MI.		23. MEAN ANNUAL RUNOFF				20 INCHES				
	20. LENGTH		3.3 MILES		AV. WIDTH		1.94 MILES		24. MEAN ANNUAL RUNOFF				6830 AC.-FT.		
	21. MAX. ELEV.			2220			MIN. ELEV.			1738.0			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.		
	8/12/64		-	-	Range		17		75		1085.0		0.159		
	8/8/67		3	3	Range		8		75		1083.77		0.159		
	9/23/69		2.12	5.12	Range		10		75		1082.95		0.159		
	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		
	8/12/64		-		-		-		-		-		-		
8/8/67		1.23		.41		.065		1.23		.41		.065			
9/23/69		.82		.38		.062		2.05		.40		.064			
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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	
8/12/64		-		-		-		-		-					
8/8/67		80.0*		113.3		113.3		.038		.113					
9/23/69		80.0		108.0		112.0		.037		.189					

\*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															
Ischua Creek County Watershed Protection District															
48. AGENCY MAKING SURVEY      Soil Conservation Service, Syracuse, N. Y.															
49. AGENCY SUPPLYING DATA      Soil Conservation Service      50. DATE      10/8/69															

RESERVOIR SEDIMENT  
DATA SUMMARY

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Ischua Creek - Site #5

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21-56a

DATA SHEET NO.

DAM	1. OWNER See Remarks			2. STREAM Gates Creek		3. STATE New York		
	4. SEC. TWP. RANGE		5. NEAREST P. O.		6. COUNTY			
	7. LAT. 42° 19' "		LONG. 78° 25' "		8. TOP OF DAM ELEVATION 1789.2		9. SPILLWAY CREST ELEV. 1782.0	
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		1782.0	75.0	1031.0	1053.56	8/30/62	
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE		1752.0	7.04	27.56	27.56	4/63	
WATERSHED	17. LENGTH OF RESERVOIR .64 MILES				AV. WIDTH OF RESERVOIR .18 MILES			
	18. TOTAL DRAINAGE AREA 6.4 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 38.8 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 6.28 SQ. MI.			23. MEAN ANNUAL RUNOFF 20.0 INCHES				
	20. LENGTH 3.3 MILES		AV. WIDTH 1.94 MILES		24. MEAN ANNUAL RUNOFF 6826. AC.-FT.			
	21. MAX. ELEV. 2220.0		MIN. ELEV. 1738.0		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.
	8/12/64	-	-	Range	17	75	1058.56	0.155
	8/4/71	6.97	6.97	Range	9	75	1056.44	0.155
	10/3/74	3.2	10.17	Range	9	75	1055.83	0.155
	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	
	8/12/64	-						
	8/4/71	38.8						
	10/3/74	38.8						
	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		
8/12/64	-	-	-	-	-	-	-	
8/4/71	2.12	.30	.048	2.12	.30	.048	.048	
10/3/74	.61	.19	.03	2.73	.268	.043	.043	
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	
8/12/64	-	-	-	-	-	-	-	
8/4/71	80.0*	84.3	84.3	.028	.2	-	-	
10/3/74	80.0*	52.9	74.4	.025	.258	-	-	

\*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															
1/ Ischua Creek County Watershed Protection District															
48. AGENCY MAKING SURVEY															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 8/4/71															