

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Ischua Creek - Site #2

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

21-55

DATA SHEET NO.

DAM	1. OWNER See Item 47			2. STREAM Johnson Creek			3. STATE New York							
	4. SEC. TWP. RANGE			5. NEAREST P.O. Franklinville			6. COUNTY Cattaraugus							
	7. LAT. 42° 23' " LONG. 78° 25' "			8. TOP OF DAM ELEVATION 1735.2			9. SPILLWAY CREST ELEV. 1729.5							
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		1729.5		30.5		436.0		465.0		8/3/62			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY													
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN			
	f. CONSERVATION													
g. INACTIVE		1706.5		6.5		29.0		29.0		4/63				
WATERSHED	17. LENGTH OF RESERVOIR				.33 MILES		AV. WIDTH OF RESERVOIR				0.1 MILES			
	18. TOTAL DRAINAGE AREA				2.8 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				38.8 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				2.75 SQ. MI.		23. MEAN ANNUAL RUNOFF				20 INCHES			
	20. LENGTH		2.18 MILES		AV. WIDTH		1.3 MILES		24. MEAN ANNUAL RUNOFF				2980 AC.-F.T.	
	21. MAX. ELEV. 2120				MIN. ELEV. 1697.0				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		19	30.5	465.00		0.156			
	7/12/67		2.91	2.91	Range		5	30.5	464.72		0.156			
	9/16/69		2.16	5.07	Range		6	30.5	464.33		0.156			
	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		-		-		-		-		-		-	
7/12/67		.28		.095		.0345		.276		.095		.0345		
9/16/69		.39		.183		.0665		.671		.132		.0480		
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		-		-		-		-		-		-		
7/12/67		80.0*		60.5		60.5		.0204		.0593				
9/16/69		80.0		116.0		83.6		.0284		.144				

\*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

RESERVOIR SEDIMENT  
DATA SUMMARY

Ischua Creek - Site #2

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

21 - 55a

DATA SHEET NO.

1/

DAM	1. OWNER See Remarks			2. STREAM Johnson Creek			3. STATE New York									
	4. SEC. TWP. RANGE			5. NEAREST P. O.			6. COUNTY									
	7. LAT. 42°23' " LONG. 78°25' "			8. TOP OF DAM ELEVATION 1735.2			9. SPILLWAY CREST ELEV. 1729.5									
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		1729.5		30.5		436.0		488.96		8/3/62					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION															
g. INACTIVE		1706.5		6.88		52.96		52.96		4/63						
WATERSHED	17. LENGTH OF RESERVOIR 0.33 MILES				AV. WIDTH OF RESERVOIR 0.1 MILES											
	18. TOTAL DRAINAGE AREA 2.8 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 38.8 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 2.75 SQ. MI.				23. MEAN ANNUAL RUNOFF 20. INCHES											
	20. LENGTH 2.18 MILES		AV. WIDTH 1.3 MILES		24. MEAN ANNUAL RUNOFF 2986. AC.-FT.											
	21. MAX. ELEV. 2120		MIN. ELEV. 1697		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		19		30.5		488.96		0.164	
	8/2/71		6.97		6.97		Range		6		30.5		488.34		0.164	
	9/27/74		3.15		10.12		Range		6		30.5		488.09		0.163	
	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		-													
	8/2/71		38.8													
	9/27/74		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		-		-		-		-		-		-				
8/2/71		0.62		.09		.033		0.62		.089		.032				
9/27/74		0.25		.08		.029		0.87		.086		.031				
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		-		-		-		-		-		-		-		
8/2/71		80.0*		56.5		56.5		.018		.127		-		-		
9/27/74		80.0*		50.3		54.0		.018		.178		-		-		

\*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 8/2/71					