

Clean Water Institute

**Table 1. Summary of Disturbances along Lycoming Creek*
Summer 2002****

Structure	Amount	Percentage out of 245
Bridges	16	6.53%
Mid-channel Bars	28	11.42%
Deposition Bars	32	13.06%
Pipes	17	6.94%
Rip Rap	18	7.35%
Tributaries	8	3.27%
Concrete Walls	17	6.94%
Dried Creek bed	1	0.41%
Total Erosion sites	108	44.08%
Right banks	58	23.67%
Left banks	50	46.30%

* Study area between Roaring Branch and Lower Heshbon Road

**Completed by Lycoming College Clean Water Institute Interns

**Table 2. Summary of Bank Erosion Potential based on Bank Heights along Lycoming Creek*
Summer 2002****

Total Banks		
Erosion Potential	Number	Percent
Low	36	33.33%
Moderate	44	40.74%
High	28	25.93%
Total	108	

Right Banks		
Erosion Potential	Number	Percent
Low	26	44.83%
Moderate	23	39.66%
High	9	15.52%
Total	58	

Left Banks		
Erosion Potential	Number	Percent
Low	10	20.00%
Moderate	21	42.00%
High	19	38.00%
Total	50	

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Table 3. Summary of Bank Erosion Potential based on Bank Angles along Lycoming Creek*
Summer 2002**

Total Banks		
Erosion Potential	Number	Percent
Low	17	15.74%
Moderate	67	62.04%
High	24	22.22%
Total	108	

Right Banks		
Erosion Potential	Number	Percent
Low	12	20.69%
Moderate	32	55.17%
High	14	24.14%
Total	58	

Left Banks		
Erosion Potential	Number	Percent
Low	5	10.00%
Moderate	35	70.00%
High	10	20.00%
Total	50	

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Table 4. Summary of Bank Erosion Potential based on Root Density along Lycoming Creek*
Summer 2002**

Total Banks		
Erosion Potential	Number	Percent
Low	11	10.19%
Moderate	67	62.04%
High	30	27.78%
Total	108	

Right Banks		
Erosion Potential	Number	Percent
Low	5	8.62%
Moderate	39	67.24%
High	14	24.14%
Total	58	

Left Banks		
Erosion Potential	Number	Percent
Low	6	12.00%
Moderate	28	56.00%
High	16	32.00%
Total	50	

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**Table 5. Summary of Bank Erosion Potential based on Particle Size along Lycoming Creek*
Summer 2002****

Total Banks		
Erosion Potential	Number	Percent
Low	7	6.48%
Moderate	72	66.67%
High	29	26.85%
Total	108	

Right Banks		
Erosion Potential	Number	Percent
Low	3	5.17%
Moderate	35	60.34%
High	20	34.48%
Total	58	

Left Banks		
Erosion Potential	Number	Percent
Low	4	8.00%
Moderate	37	74.00%
High	9	18.00%
Total	50	

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**Table 6. Summary of Bank Erosion Potential based on Length of Site as compared to Bank Height along Lycoming Creek*
Summer 2002****

Total Banks	0-50	51-100	101-250	251-500	501-1000
Length in feet	0-50	51-100	101-250	251-500	501-1000
Low Bank Height	5	11	12	6	2
Moderate Bank Height	3	8	16	17	0
High Bank Height	3	8	6	11	0
Total	11	27	34	34	2
Percent out of 108	10.12%	25.00%	31.48%	31.48%	1.85%

Right Banks	0-50	51-100	101-250	251-500	501-1000
Length in feet	0-50	51-100	101-250	251-500	501-1000
Low Bank Height	2	8	12	3	1
Moderate Bank Height	0	3	11	9	0
High Bank Height	1	3	4	1	0
Total	3	14	27	13	1
Percent out of 58	5.17%	24.14%	46.55%	22.41%	1.72%

Left Banks	0-50	51-100	101-250	251-500	501-1000
Length in feet	0-50	51-100	101-250	251-500	501-1000
Low Bank Height	3	3	0	3	1
Moderate Bank Height	3	5	5	8	0
High Bank Height	2	5	2	10	0
Total	8	13	7	21	1
Percent out of 50	16.00%	26.00%	14.00%	42.00%	2.00%

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