

## **Summary of Data**

**Produced by the Pennsylvania Senior Environmental Corps (PaSEC)**

**Indiana County Chapter**

**For The Twolick Creek Watershed**

**Collected 1998 to 2007**

This work was done using the “Water Quality Monitoring Field Manual For The Pennsylvania Senior Environmental Corps” written by Nature Abounds in cooperation with the Pennsylvania Department of Environmental Protection and US EPA’s 319 Non-Point Source Program.

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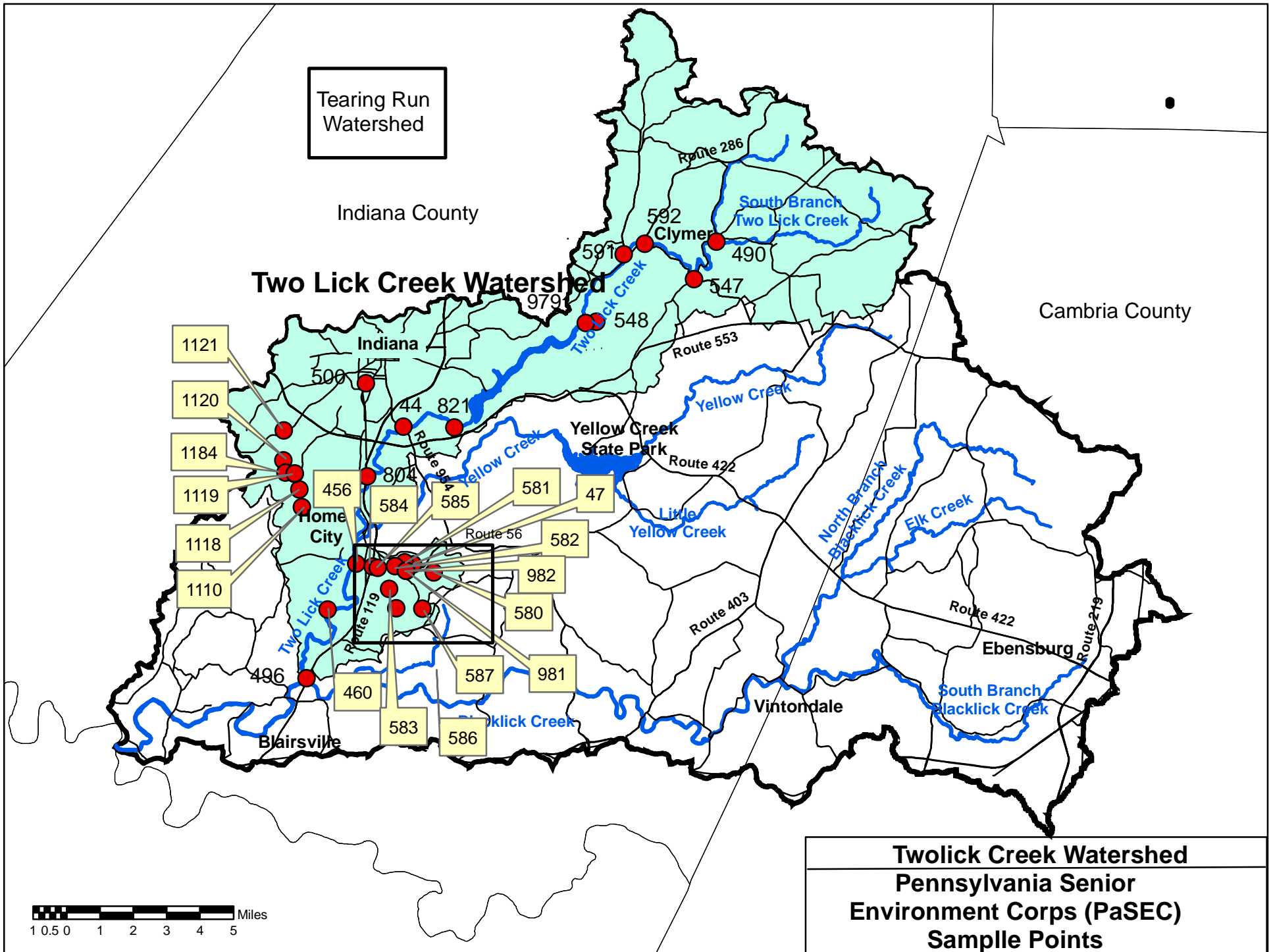
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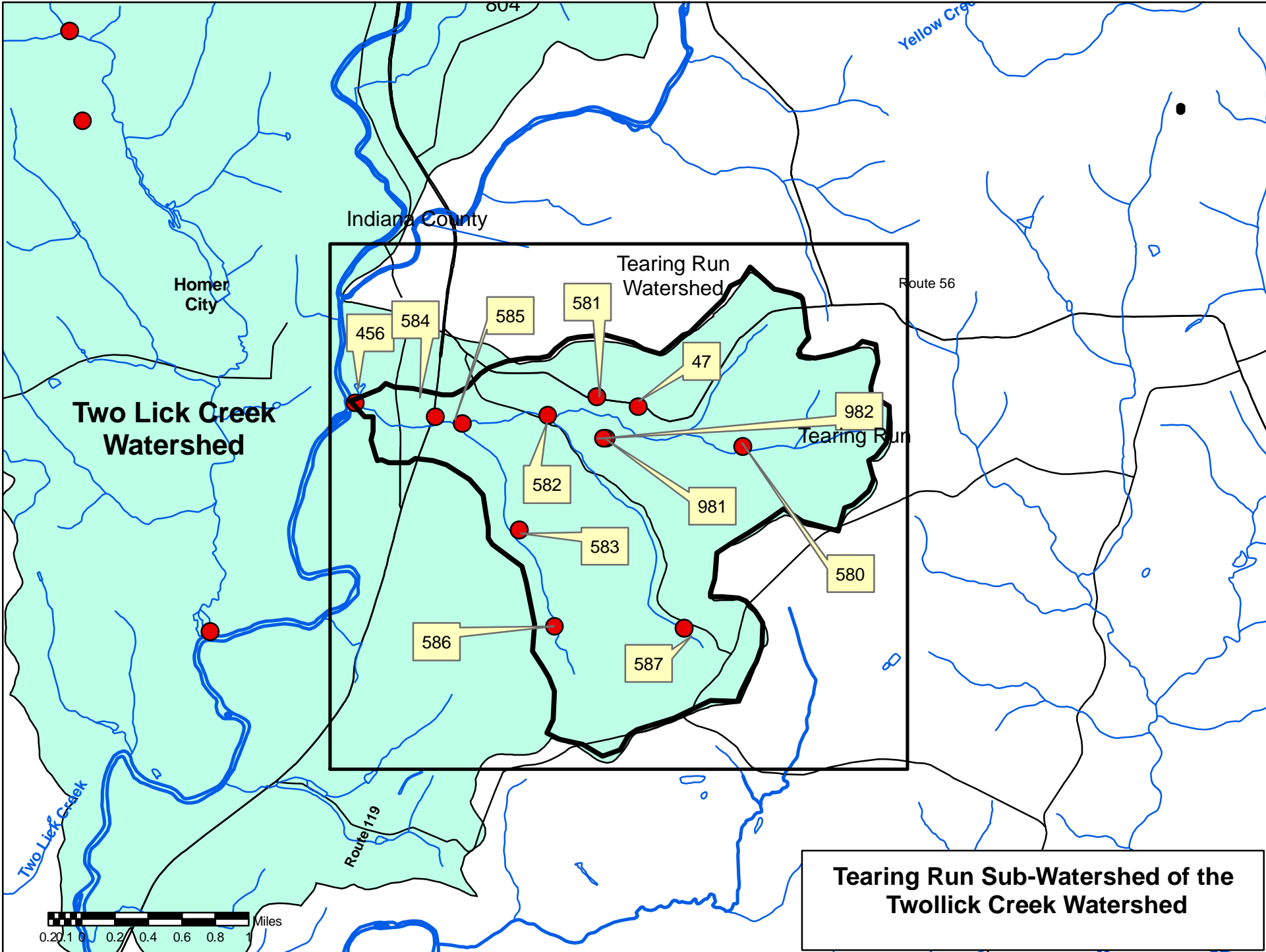
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**Tearing Run Sub-Watershed of the  
Two Lick Creek Watershed**

**TWOLICK CREEK WATERSHED**  
**SITE ID LOCATIONS**

<b>Site ID</b>	<b>Water Body Name</b>
43	White's Run
47	Waterman
456	Tearing Run
460	Cherry Run #1
478	Palmer Run
488	Stewart Run
490	Two Lick South Branch
496	Two Lick
500	Marsh Run
547	Two Lick Creek
580	Tearing Run #1
581	Tearing Run #2
582	Tearing Run #3
583	Tearing Run #4
584	Tearing Run #5
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586	Tearing Run #7
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591	Dixon Run
592	Buck Run
598	Muddy Run
746	Leonard Run
774	Bracken Run
804	Stoney Run
823	Ramsey Run
979	Penn Run
981	Tearing Run #9
982	Tearing Run #10
1110	Cherry Run #2
1118	Cherry Run #3
1119	Cherry Run #4
1120	Cherry Run #5
1121	Cherry Run #6
1184	Cherry Run #7
10059	Cherry Run-Left Pipe

**Table 1**  
**Summary of Data From The Pennsylvania Senior Environmental Corps (PaSEC)**  
**Sites Located In The Twolick Creek Watershed**

Water Body Name	Bracken Run	Buck Run	Cherry Run #1	Cherry Run #2	Cherry Run #3	Cherry Run #4	Cherry Run #5	Cherry Run #6	Cherry Run #7	Cherry Run-Left Pipe	Dixon Run
Site ID	774	592	460	1110	1118	1119	1120	1121	1184	10059	591
Stream Habitat Completed?	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Macroinvertebrate Study Completed?	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Water Quality Study Completed?	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Watershed Name	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed
Township	Jackson	Cherry Hill	Center	Center	Center	Center	Center	Center	Center	Center	Cherry Hill
County	Cambria	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana
State	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA
Site Description Location	wooded		Graceton	riffle below bridge, below Brookside Dairy - identified by volunteer monitor as CR #2	above bridge on Fitzgerald Road, above Beck's Shaft	above bridge on old Rt 56 and Sexton Road	below bridge on Sexton Road	35 yards above Nation Wide Insurance Co parking lot along 286 near Sexton Road	Edge Road branch at pulloff along old Rt. 56 beyond Sexton Road	Left pipe above bridge on old Route 56 before Sexton Road	
Stream Code DEP ID#	44621	44326	44080	44080	44080	44080	44080	44080	44080	44080	44298
River Mile Index	4.22	23.43	3.26	4.1	4.3	5.1	5.9	6.6	6.7	5.1	22.65
Latitude		40.66725	40.5011944	40.5506111	40.5513889	40.5670556	40.5676389	40.5839444	40.5671111	40.5670778	40.6667778
Longitude		-79.0003333	-79.1681667	-79.1846944	-79.1848611	-79.2001389	-79.2003056	-79.2008056	-79.2006667	-79.20015	-79.0015278
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	other	stream

**Table 1**  
**Summary Of Data From The Pennsylvania Senior Environment Corps (PaSEC)**  
**Sites Located In The Twolick Creek Watershed**  
**(Continued)**

Water Body Name	Leonard Run	Marsh Run	Muddy Run	Palmer Run	Penn Run	Ramsey Run	Stewart Run	Stoney Run	Tearing Run	Tearing Run #1	Tearing Run #10
Site ID	746	500	598	478	979	823	488	804	456	580	982
Stream Habitat Completed?	Yes	No	No	No	No	Yes	No	No	Yes	Yes	Yes
Macroinvertebrate Study Completed?	No	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes
Water Quality Study Completed?	No	Yes	No	No	Yes	Yes	No	No	No	No	No
Watershed Name	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed
Township	Cherry Hill Twp	White	Blacklick	Burrel	Cherry Hill Twp	White	Black Lick	White	Center	Center	Center
County	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana
State	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA
Site Description Location	located at Heilwood	Indiana		at Palmer Town near Blacklick	upper end of Two Lick Dam - (east side of dam) near the new treatment facility of BLCWA	Ramsey Run Road, south 1 mile of East Pike Road	near Blairsville	at the bridge near the entrance to Indiana sewage plant	at Homer City	Near Waterman/TR #619	mine discharge
Stream Code DEP ID#	44214	44241	44010	44410	44276	44249	43980	44228	44112	44112	44112
River Mile Index	20.05	3.12	5.6	1	19.8	13.82	40	9.18	5.88	2.34	1.1
Latitude		40.6010278	40.4670556		40.6337778	40.5841667		40.567	40.5181944	40.5178611	40.5179167
Longitude		-79.1511389	-79.2340278		-79.0336667	-79.1010833		-79.151	-79.1515556	-79.1171389	-79.1337222
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream



**Table 1**  
**Summary Of Data From The Pennsylvania Senior Environment Corps (PaSEC)**  
**Sites Located In The Towlick Creek Watershed**  
**(Continued)**

<b>Water Body Name</b>	<b>Tearing Run #2</b>	<b>Tearing Run #3</b>	<b>Tearing Run #4</b>	<b>Tearing Run #5</b>	<b>Tearing Run #6</b>	<b>Tearing Run #7</b>	<b>Tearing Run #8</b>	<b>Tearing Run #9</b>	<b>Two Lick</b>	<b>Two Lick Creek</b>	<b>South Branch</b>
<b>Site ID</b>	581	582	583	584	585	586	587	981	496	547	490
<b>Stream Habitat Completed?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>Macroinvertebrate Study Completed?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
<b>Water Quality Study Completed?</b>	No	No	No	No	No	No	No	No	No	No	No
<b>Watershed Name</b>	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed	Towlick Creek Watershed
<b>Township</b>	Center	Center	Center	Center	Center	Center	Center	Center	Center	Cherry Hill	Greene
<b>County</b>	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana	Indiana
<b>State</b>	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA
<b>Site Description Location</b>	Near Coy/Gas Well Road	Near Waterman	Near Coy. SR #2019	Near Homer Center School. Route #119 Bore hole	Behind Tearing Run	Six Flat Road by gas well.	Near Lucious Boro		near Josephine	unknown mine discharge near Browns Run at Clymer	South Branch of Two Lick
<b>Stream Code DEP ID#</b>	44112	44112	44112	44112	44112	44112	44112	44112	44073	44332	44364
<b>River Mile Index</b>	1.8	1.5	1.2	0.621	0.932	2.3	3	1	10.72	25.76	28.06
<b>Latitude</b>	40.5182778	40.5181111	40.5181111	40.5180833	40.5180278	40.5012778	40.5012778	40.5179167	40.4681944	40.6507222	40.6673611
<b>Longitude</b>	-79.1338056	-79.1343611	-79.1346667	-79.1506389	-79.1503333	-79.13425	-79.1177778	-79.1336944	-79.1843056	-78.9675	-78.95125
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream

**Table 1**  
**Summary Of Data From The Pennsylvania Senior Environment Corps (PaSEC)**  
**Sites Located In The Towlick Creek Watershed**  
**(Continued)**

<b>Water Body Name</b>	<b>Waterman</b>	<b>White's Run</b>
<b>Site ID</b>	47	43
<b>Stream Habitat Completed?</b>	No	No
<b>Macroinvertebrate Study Completed?</b>	No	No
<b>Water Quality Study Completed?</b>	No	No
<b>Watershed Name</b>	Towlick Creek Watershed	Towlick Creek Watershed
<b>Township</b>	Center	Indiana Boro
<b>County</b>	Indiana	Indiana
<b>State</b>		
<b>Site Description Location</b>	Waterman tributary to the Tearing Run	Oak Street
<b>Stream Code DEP ID#</b>	44112	44239
<b>River Mile Index</b>	6.02	3.12
<b>Latitude</b>	40.5181944	40.6012222
<b>Longitude</b>	-79.1333333	-79.15125
<b>Type of Water Body</b>	stream	stream

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environment Corps (PaSEC)**  
**Stream Habitat Evaluation Of The Two Lick Creek Watershed**

<b>Water Body Name</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>
<b>Site ID</b>	460	460	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	9/28/1998	9/18/2000	6/11/2001	9/14/2001	4/23/2002	10/7/2002	6/2/2003	11/3/2003	6/21/2004	5/31/2005
<b>Stream Code DEP ID#</b>	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080
<b>River Mile Index</b>	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
<b>Features</b>										
<b>Attachment Sites for Macroinvertebrates</b>	4	14	14	8	13	12	17	14	16	12
<b>Embeddedness</b>	8	12	10	14	15	14	14	15	15	12
<b>Shelter for Fish and Macroinvertebrates</b>	8	10	8	11	10	8	13	14	12	16
<b>Channel Alteration</b>	16	16	16	17	15	15	16	18	16	16
<b>Sediment Deposition</b>	17	15	12	12	17	13	15	16	13	12
<b>Stream Velocity and Depth Combinations</b>	18	11	13	8	16	10	17	16	18	14
<b>Channel Flow Status</b>	17	13	13	8	14	7	14	15	18	10
<b>Bank Vegetative Protection - Left Bank</b>	9	9	7	8	6	5	6	1	4	2
<b>Bank Vegetative Protection - Right Bank</b>	9	9	7	8	5	6	8	2	3	2
<b>Bank Condition - Left Bank</b>	7	7	6	5	6	6	6	4	4	4
<b>Bank Condition - Right Bank</b>	7	7	7	5	6	6	8	5	4	4
<b>Riparian Width - Left Bank</b>	2	9	9	10	2	2	1	2	2	0
<b>Riparian Width - Right Bank</b>	2	9	9	10	2	2	1	3	2	3
<b>Total (out of possible 200)</b>	<b>124</b>	<b>141</b>	<b>131</b>	<b>124</b>	<b>127</b>	<b>106</b>	<b>136</b>	<b>125</b>	<b>127</b>	<b>107</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #3	Cherry Run #3
Site ID	460	460	1110	1110	1110	1110	1110	1110	1110	1118	1118
Monitor Date	5/8/2006	10/9/2006	10/6/2003	5/3/2004	10/18/2004	10/25/2004	4/11/2005	5/15/2006	10/23/2006	10/6/2003	5/3/2004
Stream Code DEP ID#	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080
River Mile Index	3.26	3.26	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.3	4.3
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	15.8	15.8	1	1	1	1	1	1	1	1	1
Features											
Attachment Sites for Macroinvertebrates	15	13	15	12	13	16	11	13	16	16	16
Embeddedness	13	11	16	14	16	16	15	12	16	15	15
Shelter for Fish and Macroinvertebrates	13	11	6	16	14	12	5	10	10	12	17
Channel Alteration	16	16	13	12	17	16	13	12	16	15	17
Sediment Deposition	12	13	15	16	14	16	12	14	14	14	16
Stream Velocity and Depth Combinations	14	16	11	16	16	16	15	15	13	14	17
Channel Flow Status	13	9	13	13	13	16	16	14	18	13	15
Bank Vegetative Protection - Left Bank	4	3	8	5	4	4	4	6	9	8	8
Bank Vegetative Protection - Right Bank	3	3	8	5	4	4	6	6	9	8	9
Bank Condition - Left Bank	5	4	7	5	6	6	4	6	9	8	7
Bank Condition - Right Bank	5	4	6	5	5	6	7	6	9	9	7
Riparian Width - Left Bank	2	1	5	2	2	2	2	2	8	9	9
Riparian Width - Right Bank	2	1	5	2	2	2	2	2	8	9	8
Total (out of possible 200)	117	105	128	123	126	132	112	118	155	150	161

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**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #5
Site ID	1118	1118	1118	1118	1119	1119	1119	1119	1119	1119	1120
Monitor Date	10/25/2004	4/18/2005	5/22/2006	10/30/2006	10/13/2003	5/10/2004	10/4/2004	5/2/2005	4/3/2006	9/11/2006	10/13/2003
Stream Code DEP ID#	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080
River Mile Index	4.3	4.3	4.3	4.3	5.1	5.1	5.1	5.1	5.1	5.1	5.9
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1	1	1	1
Features											
Attachment Sites for Macroinvertebrates	17	12	17	16	13	16	13	13	15	15	12
Embeddedness	16	16	16	18	14	14	16	13	16	16	12
Shelter for Fish and Macroinvertebrates	17	16	17	16	5	12	17	9	14	15	11
Channel Alteration	17	14	17	18	13	13	12	12	11	12	11
Sediment Deposition	16	16	15	15	12	13	14	11	13	15	16
Stream Velocity and Depth Combinations	16	17	15	15	11	16	16	16	16	10	12
Channel Flow Status	16	12	15	20	14	14	15	12	13	16	13
Bank Vegetative Protection - Left Bank	9	8	9	7	7	7	7	6	6	6	6
Bank Vegetative Protection - Right Bank	9	8	9	8	7	7	7	7	5	6	6
Bank Condition - Left Bank	8	7	8	9	6	7	6	6	6	6	7
Bank Condition - Right Bank	8	7	8	9	6	7	6	6	6	6	7
Riparian Width - Left Bank	9	9	9	5	5	2	2	1	2	3	3
Riparian Width - Right Bank	8	9	9	9	5	2	2	2	2	3	3
<b>Total (out of possible 200)</b>	<b>166</b>	<b>151</b>	<b>164</b>	<b>165</b>	<b>118</b>	<b>130</b>	<b>133</b>	<b>114</b>	<b>125</b>	<b>129</b>	<b>119</b>

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**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #6</b>	<b>Cherry Run #6</b>	<b>Cherry Run #6</b>	<b>Cherry Run #6</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>
<b>Site ID</b>	1120	1120	1120	1120	1120	1121	1121	1121	1121	1184	1184
<b>Monitor Date</b>	5/10/2004	10/4/2004	5/9/2005	4/24/2006	9/18/2006	5/17/2004	5/16/2005	5/1/2006	9/25/2006	5/17/2004	10/11/2004
<b>Stream Code DEP ID#</b>	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080	44080
<b>River Mile Index</b>	5.9	5.9	5.9	5.9	5.9	6.6	6.6	6.6	6.6	6.7	6.7
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1	1	1	1	1	1	1
<b>Features</b>											
<b>Attachment Sites for Macroinvertebrates</b>	16	15	14	16	13	16	16	16	14	13	15
<b>Embeddedness</b>	14	16	15	15	15	14	16	15	15	17	16
<b>Shelter for Fish and Macroinvertebrates</b>	14	14	15	16	12	12	13	15	13	15	10
<b>Channel Alteration</b>	13	12	12	12	12	11	11	13	6	18	16
<b>Sediment Deposition</b>	17	14	16	14	13	16	16	16	18	16	13
<b>Stream Velocity and Depth Combinations</b>	16	16	12	16	15	14	16	15	15	14	15
<b>Channel Flow Status</b>	16	16	12	17	15	10	12	16	13	12	12
<b>Bank Vegetative Protection - Left Bank</b>	5	6	4	6	9	8	2	5	9	8	5
<b>Bank Vegetative Protection - Right Bank</b>	5	6	4	5	9	5	5	7	4	9	8
<b>Bank Condition - Left Bank</b>	6	7	5	6	9	9	7	7	9	7	7
<b>Bank Condition - Right Bank</b>	6	7	4	6	9	7	6	7	10	7	7
<b>Riparian Width - Left Bank</b>	2	2	2	2	1	3	1	1	8	7	4
<b>Riparian Width - Right Bank</b>	2	2	2	2	1	5	2	4	2	9	9
<b>Total (out of possible 200)</b>	<b>132</b>	<b>133</b>	<b>117</b>	<b>133</b>	<b>133</b>	<b>130</b>	<b>123</b>	<b>137</b>	<b>136</b>	<b>152</b>	<b>137</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run-RightPipe	Leonard Run	Leonard Run	Leonard Run	Ramsey Run	Tearing Run #1	Tearing Run #1	Tearing Run #1
Site ID	1184	1184	1184	10058	746	746	746	823	580	580	580
Monitor Date	5/23/2005	4/10/2006	10/2/2006	3/26/2007	5/31/2001	8/23/2001	3/4/2004	6/8/2006	10/4/1998	4/10/2000	9/11/2000
Stream Code DEP ID#	44080	44080	44080	44080	44214	44214	44214	44249	44112	44112	44112
River Mile Index	6.7	6.7	6.7	5.1	20.05	20.05	20.05	13.82	2.34	2.34	2.34
Type of Water Body	stream	stream	stream	other	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1		30	30	30	10	7.32	7.32	7.32
Features											
Attachment Sites for Macroinvertebrates	13	10	14	16	20	10	20	18	8	16	11
Embeddedness	17	16	18	15	20	15	15	18	14	12	12
Shelter for Fish and Macroinvertebrates	12	12	13	14	10	10	13	20	8	6	5
Channel Alteration	16	14	18	14	18	20	20	15	13	11	11
Sediment Deposition	15	16	15	11	13	13	15	18	10	12	16
Stream Velocity and Depth Combinations	16	12	16	10	13	10	20	18	8	16	16
Channel Flow Status	10	10	13	15	10	10	18	14	5	10	9
Bank Vegetative Protection - Left Bank	7	8	10	6	8	6	10	8	8	9	7
Bank Vegetative Protection - Right Bank	9	9	6	6	8	4	10	10	8	9	8
Bank Condition - Left Bank	5	5	9	4	10	5	2	8	7	5	7
Bank Condition - Right Bank	6	5	9	6	5	5	5	6	7	5	7
Riparian Width - Left Bank	5	5	10	1	10	10	10	10	10	2	4
Riparian Width - Right Bank	9	9	4	1	10	10	10	10	10	7	5
<b>Total (out of possible 200)</b>	<b>140</b>	<b>131</b>	<b>155</b>	<b>119</b>	<b>155</b>	<b>128</b>	<b>168</b>	<b>173</b>	<b>116</b>	<b>120</b>	<b>118</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2
Site ID	580	580	580	580	580	581	581	581	581	581
Monitor Date	5/29/2001	10/8/2001	4/17/2002	11/4/2002	5/5/2003	12/21/1998	5/8/2000	8/28/2000	4/23/2001	4/30/2001
Stream Code DEP ID#	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112
River Mile Index	2.34	2.34	2.34	2.34	2.34	1.8	1.8	1.8	1.8	1.8
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	1.22	1.22	1.22	1.22	1.22
Features										
Attachment Sites for Macroinvertebrates	12	11	11	7	11	0	0	8	8	16
Embeddedness	13	10	8	10	10	0	0	5	5	12
Shelter for Fish and Macroinvertebrates	7	4	13	9	8	0	0	7	5	14
Channel Alteration	12	15	12	16	13	0	0	8	8	17
Sediment Deposition	16	10	11	13	12	0	0	8	5	12
Stream Velocity and Depth Combinations	16	13	12	12	14	0	0	9	9	14
Channel Flow Status	10	8	13	13	12	0	0	9	14	16
Bank Vegetative Protection - Left Bank	7	6	7	9	5	0	0	2	2	9
Bank Vegetative Protection - Right Bank	7	6	7	9	5	0	0	2	2	9
Bank Condition - Left Bank	6	6	6	6	8	0	0	2	2	7
Bank Condition - Right Bank	7	8	8	8	8	0	0	2	2	7
Riparian Width - Left Bank	4	4	5	7	5	0	0	1	4	8
Riparian Width - Right Bank	4	8	5	7	8	0	0	1	4	8
<b>Total (out of possible 200)</b>	<b>121</b>	<b>109</b>	<b>118</b>	<b>126</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>70</b>	<b>149</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 22



**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #4
Site ID	581	581	581	581	582	582	582	582	582	582	583
Monitor Date	9/24/2001	4/1/2002	10/21/2002	4/28/2003	10/26/1998	8/11/2000	10/1/2001	4/8/2002	9/30/2002	5/12/2003	10/19/1998
Stream Code DEP ID#	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112
River Mile Index	1.8	1.8	1.8	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.2
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1.22	1.22	1.22	1.22	7.63	7.63	7.63	7.63	7.63	7.63	7.32
<b>Features</b>											
Attachment Sites for Macroinvertebrates	11	6	4	4	8	12	7	15	8	15	12
Embeddedness	3	5	3	4	17	8	13	14	9	15	11
Shelter for Fish and Macroinvertebrates	1	0	2	6	13	6	11	16	12	16	4
Channel Alteration	13	8	8	6	13	16	16	16	13	16	8
Sediment Deposition	3	8	6	6	16	11	12	16	16	17	8
Stream Velocity and Depth Combinations	1	6	7	4	8	16	8	17	13	16	14
Channel Flow Status	8	8	0	8	8	13	12	15	10	16	13
Bank Vegetative Protection - Left Bank	2	1	4	3	9	9	7	8	7	9	2
Bank Vegetative Protection - Right Bank	2	1	4	2	9	9	8	8	7	9	2
Bank Condition - Left Bank	5	2	4	3	10	6	8	8	7	8	5
Bank Condition - Right Bank	5	2	4	3	10	6	8	8	7	7	5
Riparian Width - Left Bank	9	4	2	5	9	4	9	9	8	7	2
Riparian Width - Right Bank	9	3	2	5	9	8	9	9	8	2	2
<b>Total (out of possible 200)</b>	<b>72</b>	<b>54</b>	<b>50</b>	<b>59</b>	<b>139</b>	<b>124</b>	<b>128</b>	<b>159</b>	<b>125</b>	<b>153</b>	<b>88</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #5	Tearing Run #5	Tearing Run #5	Tearing Run #6
Site ID	583	583	583	583	583	583	583	584	584	584	585
Monitor Date	5/8/2000	8/28/2000	4/23/2001	9/24/2001	4/1/2002	10/21/2002	4/28/2003	4/24/2000	4/9/2001	5/14/2002	10/12/1998
Stream Code DEP ID#	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112
River Mile Index	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.621	0.621	0.621	0.932
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32	1.22	1.22	1.22	7.32
Features											
Attachment Sites for Macroinvertebrates	12	13	13	14	14	14	16	7	7	4	13
Embeddedness	11	10	11	11	11	13	12	5	5	4	15
Shelter for Fish and Macroinvertebrates	4	6	11	14	15	13	13	3	3	2	5
Channel Alteration	8	9	7	6	11	13	6	13	11	11	17
Sediment Deposition	8	9	10	9	16	15	9	2	6	9	18
Stream Velocity and Depth Combinations	14	14	15	13	13	14	14	9	12	8	14
Channel Flow Status	13	11	17	8	13	12	10	12	14	14	10
Bank Vegetative Protection - Left Bank	2	4	5	7	5	5	5	4	5	6	8
Bank Vegetative Protection - Right Bank	2	4	7	7	4	5	5	4	4	6	8
Bank Condition - Left Bank	5	5	8	8	4	4	8	8	7	7	8
Bank Condition - Right Bank	5	5	8	7	4	4	8	8	7	6	8
Riparian Width - Left Bank	2	1	2	1	2	2	2	7	9	8	9
Riparian Width - Right Bank	2	1	2	1	2	2	1	8	9	8	9
<b>Total (out of possible 200)</b>	<b>88</b>	<b>92</b>	<b>116</b>	<b>106</b>	<b>114</b>	<b>116</b>	<b>109</b>	<b>90</b>	<b>99</b>	<b>93</b>	<b>142</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

<b>Water Body Name</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #6</b>	<b>Tearing Run #7</b>	<b>Tearing Run #7</b>
<b>Site ID</b>	585	585	585	585	585	585	585	585	586	586
<b>Monitor Date</b>	4/24/2000	8/21/2000	4/9/2001	9/17/2001	5/14/2002	10/18/2002	6/23/2003	10/11/2004	10/26/1998	9/5/2000
<b>Stream Code DEP ID#</b>	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112
<b>River Mile Index</b>	0.932	0.932	0.932	0.932	0.932	0.932	0.932	0.932	2.3	2.3
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
<b>Features</b>										
<b>Attachment Sites for Macroinvertebrates</b>	15	16	16	13	14	13	14	16	8	11
<b>Embeddedness</b>	13	12	17	12	13	12	12	17	16	12
<b>Shelter for Fish and Macroinvertebrates</b>	4	10	17	11	12	16	12	8	19	14
<b>Channel Alteration</b>	16	16	17	14	13	10	13	13	18	17
<b>Sediment Deposition</b>	13	13	16	17	14	14	16	17	17	12
<b>Stream Velocity and Depth Combinations</b>	14	13	16	16	17	16	12	16	19	8
<b>Channel Flow Status</b>	14	8	17	9	18	12	15	14	16	7
<b>Bank Vegetative Protection - Left Bank</b>	7	6	7	7	6	6	9	4	10	9
<b>Bank Vegetative Protection - Right Bank</b>	7	6	4	6	7	6	9	7	10	9
<b>Bank Condition - Left Bank</b>	8	6	7	6	6	7	8	8	9	7
<b>Bank Condition - Right Bank</b>	8	7	3	6	6	7	8	6	9	7
<b>Riparian Width - Left Bank</b>	7	7	9	8	9	9	9	2	9	9
<b>Riparian Width - Right Bank</b>	7	7	5	8	9	9	9	7	9	9
<b>Total (out of possible 200)</b>	<b>133</b>	<b>127</b>	<b>151</b>	<b>133</b>	<b>144</b>	<b>137</b>	<b>146</b>	<b>135</b>	<b>169</b>	<b>131</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 22

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

Water Body Name	Tearing Run #7	Tearing Run #7	Tearing Run #7	Tearing Run #7	Tearing Run #7	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8
Site ID	586	586	586	586	586	587	587	587	587	587
Monitor Date	4/30/2001	10/1/2001	4/8/2002	9/30/2002	5/29/2003	4/10/1998	10/5/1998	9/11/2000	5/29/2001	10/8/2001
Stream Code DEP ID#	44112	44112	44112	44112	44112	44112	44112	44112	44112	44112
River Mile Index	2.3	2.3	2.3	2.3	2.3	3	3	3	3	3
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
Features										
Attachment Sites for Macroinvertebrates	15	12	18	14	8	13	7	13	16	7
Embeddedness	15	12	14	14	11	14	13	14	13	9
Shelter for Fish and Macroinvertebrates	18	16	18	15	14	14	7	12	10	5
Channel Alteration	18	14	18	17	16	18	17	16	16	13
Sediment Deposition	17	14	17	16	14	16	14	16	16	11
Stream Velocity and Depth Combinations	16	8	18	13	13	16	16	12	17	7
Channel Flow Status	17	8	14	10	14	10	7	15	15	8
Bank Vegetative Protection - Left Bank	6	4	8	7	9	9	9	8	9	9
Bank Vegetative Protection - Right Bank	6	4	8	7	9	9	9	9	9	9
Bank Condition - Left Bank	7	6	7	7	9	7	9	9	8	9
Bank Condition - Right Bank	7	6	6	7	8	8	9	9	8	9
Riparian Width - Left Bank	9	9	9	9	9	6	9	8	7	8
Riparian Width - Right Bank	9	9	9	9	9	9	9	8	7	8
<b>Total (out of possible 200)</b>	<b>160</b>	<b>122</b>	<b>164</b>	<b>145</b>	<b>143</b>	<b>149</b>	<b>135</b>	<b>149</b>	<b>151</b>	<b>112</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 2**  
**Summary Of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Stream Habitat Evaluation Of the Two Lick Creek Watershed**  
**(Continued)**

<b>Water Body Name</b>	<b>Tearing Run #8</b>	<b>Tearing Run #8</b>	<b>Tearing Run #8</b>	<b>Tearing Run #9</b>	<b>Tearing Run #9</b>	<b>Tearing Run #10</b>	<b>Tearing Run #10</b>	<b>Tearing Run #10</b>	<b>Tearing Run #10</b>
<b>Site ID</b>	587	587	587	981	981	982	982	982	982
<b>Monitor Date</b>	4/17/2002	11/4/2002	5/5/2003	4/29/2002	6/16/2003	4/29/2002	10/14/2002	6/16/2003	6/16/2003
<b>Stream Code DEP ID#</b>	44112	44112	44112	44112	44112	44112	44112	44112	44112
<b>River Mile Index</b>	3	3	3	1	1	1.1	1.1	1.1	1.1
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	7.32	7.32	7.32	1	1	1	1	1	1
<b>Features</b>									
<b>Attachment Sites for Macroinvertebrates</b>	16	12	16	0	0	6	10	8	8
<b>Embeddedness</b>	13	13	16	0	0	4	5	6	6
<b>Shelter for Fish and Macroinvertebrates</b>	11	10	10	0	0	2	4	6	6
<b>Channel Alteration</b>	12	13	10	0	0	7	9	8	8
<b>Sediment Deposition</b>	16	15	12	0	0	3	14	5	5
<b>Stream Velocity and Depth Combinations</b>	15	14	13	0	0	8	13	9	9
<b>Channel Flow Status</b>	16	13	14	0	0	12	8	12	12
<b>Bank Vegetative Protection - Left Bank</b>	7	9	7	0	0	7	5	7	7
<b>Bank Vegetative Protection - Right Bank</b>	8	9	7	0	0	7	5	7	7
<b>Bank Condition - Left Bank</b>	6	8	8	0	0	6	6	7	7
<b>Bank Condition - Right Bank</b>	8	9	8	0	0	6	6	7	7
<b>Riparian Width - Left Bank</b>	5	10	5	0	0	9	5	7	7
<b>Riparian Width - Right Bank</b>	8	8	8	0	0	9	5	7	7
<b>Total (out of possible 200)</b>	<b>141</b>	<b>143</b>	<b>134</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>95</b>	<b>96</b>	<b>96</b>

NOTE: A description of the criteria can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 3**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Sample Point 460 - Cherry Run #1**

Water Body Name	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1
Site ID	460	460	460	460	460	460	460
Date	12/7/1998	6/14/1999	9/18/2000	6/11/2001	9/14/2001	4/23/2002	10/7/2002
Length of Assessed Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Stream Type							
Precipitation recent							
Precipitation current							
Stream Bottom							
silt sand gravel substrate							
vegetated bank margins							
snags and logs							
aquatic vegetation beds							
<b>GROUP 1 - Sensitive</b>							
gilled snails	0		0	0	0	0	0
helgrammites	0		3	2	1	0	1
mayfly nymphs	0	1	2	6	3	5	3
non net spinning caddisfly larvae	0		2	0	0	0	34
riffle beetle adults	0	5	0	0	0	0	0
stonefly nymphs	11	1	0	23	0	0	1
water penny larvae	1		3	0	0	1	0
<b>GROUP 2 - Somewhat Sensitive</b>							
alderfly larvae	0		24	0	16	0	0
Beetle Larvae	0	1	0	0	1	0	0
clams	0		5	9	10	11	8
crane fly larvae	1		0	0	0	2	0
crayfish	0	5	3	8	2	0	1
damselfly nymphs	0		0	0	0	0	14
dragonfly nymphs				0		0	4
fishfly larvae	0		0	0	0	0	0
net spinning caddisfly larvae	1	2	0	1	0	36	0
scuds	0		0	0	0	0	0
sowbugs	0		0	0	0	0	0
<b>GROUP 3 - Tolerant</b>							
blackfly larvae	0		0	0	6	0	0
leeches	1		0	0	0	0	1
midge larvae	1	1	0	0	0	0	0
snails	0		0	1	0	6	0
aquatic worms	0		0	100	0	11	0
<b>Water Quality Score</b>	19.4	27.6	30	27.4	34.2	22.3	34.8
<b>Water Quality Rating</b>	Poor	Fair	Fair	Fair	Poor	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 3**  
**Summary of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Macroinvertebrate Study**  
**Sample Point 460 - Cherry Run #1**  
**(Continued)**

Water Body Name	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1	Chreey Run #1
Site ID	460	460	460	460	460	460	460
Date	6/2/2003	11/3/2003	6/21/2004	10/18/2004	5/31/2005	5/8/2006	10/9/2006
Length of Assessed Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Stream Type						meandering	meandering
Precipitation recent						overcast	clear
Precipitation current						overcast	clear
Stream Bottom						rocky	rocky
silt sand gravel substrate							
vegetated bank margins							
snags and logs							
aquatic vegetation beds							
<b>GROUP 1 - Sensitive</b>							
gilled snails	10	0	0	0	0	1	
helgrammites	0	0	1	0	5	1	
mayfly nymphs	2	2	0	9	3		1
non net spinning caddisfly larvae	0	2	6	63	26	14	1
riffle beetle adults	0	0	0	0	0		
stonefly nymphs	11	0	15	0	2		
water penny larvae	0	1	0	0	0		
<b>GROUP 2 - Somewhat Sensitive</b>							
alderfly larvae	0	0	0	0	0		
Beetle Larvae	0	0	0	0	0		
clams	0	11	12	0	0	8	3
crane fly larvae	0	0	0	6	1	3	
crayfish	0	1	6	0	0	2	
damsel fly nymphs	11	0	10	0	0		
dragonfly nymphs	1	0	0	0	0		
fish fly larvae	0	0	0	0	0		
net spinning caddisfly larvae	0	0	0	0	2	2	
scuds	0	0	0	0	0	2	2
sowbugs	0	0	0	0	0		
<b>GROUP 3 - Tolerant</b>							
black fly larvae	0	0	1	0	0	1	4
leeches	0	2	1	0	1	1	4
midge larvae	0	0	6	0	12	17	
snails	1	0	1	0	0		
aquatic worms	21	0	1	0	8	1	
<b>Water Quality Score</b>	25.1	13.8	31.6	11.8	32.3	36.3	28.8
<b>Water Quality Rating</b>	Fair	Fair	Fair	Poor	Fair	Fair	Fair

**Table 4**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Site ID 1110 - Cherry Run #2**

Water Body Name	Chreey Run #2	Chreey Run #2	Chreey Run #2	Chreey Run #2	Chreey Run #2
Site ID	1110	1110	1110	1110	1110
Date	10/6/2003	5/3/2004	10/25/2004	4/11/2005	5/15/2006
Length of Assessed Area	1	1	1	1	1
Stream Type					meandering
Precipitation recent					overcast
Precipitation current					rain
Stream Bottom					rocky
silt sand gravel substrate					
vegetated bank margins					
snags and logs					
aquatic vegetation beds					
<b>GROUP 1 - Sensitive</b>					
gilled snails	0	0	0	0	0
helgrammites	0	0	0	0	0
mayfly nymphs	0	1	0	3	0
non net spinning caddisfly larvae	4	1	14	10	0
riffle beetle adults	0	0	0	0	0
stonefly nymphs	0	0	0	3	0
water penny larvae	0	0	0	1	1
<b>GROUP 2 - Somewhat Sensitive</b>					
alderfly larvae	0	0	0	0	0
Beetle Larvae	0	0	0	0	0
clams	0	0	0	0	0
crane fly larvae	0	0	0	0	0
crayfish	0	1	0	1	0
damsel fly nymphs	0	0	0	0	0
dragonfly nymphs	0	0	0	0	0
fishfly larvae	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	15	0
scuds	0	0	0	0	0
sowbugs	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>					0
blackfly larvae	0	0	0	0	0
leeches	6	1	0	0	0
midge larvae	0	0	0	30	0
snails	1	0	0	0	0
aquatic worms	0	0	0	64	0
<b>Water Quality Score</b>	7.1	14.4	5.6	23.3	5
<b>Water Quality Rating</b>	Poor	Poor	Poor	Fair	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66



**Table 5**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Site ID 1118 - Cherry Run # 3**

Water Body Name	Chreey Run #3	Chreey Run #3	Chreey Run #3	Chreey Run #3	Chreey Run #3	Chreey Run #3
Site ID	1118	1118	1118	1118	1118	1118
Date	10/6/2003	5/3/2004	10/25/2004	4/18/2005	5/22/2006	10/30/2006
Length of Assessed Area	1	1	1	1	1	1
Stream Type					meandering	meandering
Precipitation recent					showers	overcast
Precipitation current					overcast	clear
Stream Bottom					rocky	rocky
silt sand gravel substrate						
vegetated bank margins						
snags and logs						
aquatic vegetation beds						
<b>GROUP 1 - Sensitive</b>						
gilled snails	0	0	0	0	0	0
helgrammites	2	1	0	0	0	1
mayfly nymphs	4	0	5	21	11	0
non net spinning caddisfly larvae	6	4	67	18	7	7
riffle beetle adults	0	0	0	0	1	0
stonefly nymphs	2	2	1	3	26	22
water penny larvae	0	0	4	21	10	7
<b>GROUP 2 - Somewhat Sensitive</b>						
alderfly larvae	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	2	0
clams	0	0	0	0	0	0
crane fly larvae	1	0	3	0	3	8
crayfish	0	1	2	0	0	2
damselfly nymphs	0	0	0	0	0	0
dragonfly nymphs	0	0	0	0	0	3
fishfly larvae	0	0	0	0	1	0
net spinning caddisfly larvae	0	0	0	27	5	27
scuds	0	0	0	0	0	2
sowbugs	0	0	0	0	0	1
<b>GROUP 3 - Tolerant</b>						
blackfly larvae	0	0	0	0	2	0
leeches	0	0	0	0	0	0
midge larvae	0	0	0	18	0	0
snails	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0
<b>Water Quality Score</b>	23.2	18.2	27	35.8	39.8	39.8
<b>Water Quality Rating</b>	Fair	Poor	Fair	Fair	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 6**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Sample Point 1119 - Cherry Run #4**

Water Body Name	Chreey Run #4	Chreey Run #4	Chreey Run #4	Chreey Run #4	Chreey Run #4	Chreey Run #4
Site ID	1119	1119	1119	1119	1119	1119
Date	10/13/2003	5/10/2004	10/4/2004	5/2/2005	4/3/2006	9/11/2006
Length of Assessed Area	1	1	1	1	1	1
Stream Type					meandering	meandering
Precipitation recent					showers	overcast
Precipitation current					clear	overcast
Stream Bottom					rocky	rocky
silt sand gravel substrate						
vegetated bank margins						
snags and logs						
aquatic vegetation beds						
<b>GROUP 1 - Sensitive</b>						
gilled snails	0	0	0	0	0	0
helgrammites	0	0	0	0	0	0
mayfly nymphs	3	0	2	42	0	4
non net spinning caddisfly larvae	18	2	48	110	5	26
riffle beetle adults	0	1	1	1	3	11
stonefly nymphs	1	1	0	0	0	0
water penny larvae	2	0	5	4	15	62
<b>GROUP 2 - Somewhat Sensitive</b>						
alderfly larvae	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0
clams	0	0	0	0	0	0
crane fly larvae	4	1	0	4	0	0
crayfish	3	3	3	7	3	1
damselfly nymphs	1	0	1	0	0	0
dragonfly nymphs	1	0	1	0	1	5
fishfly larvae	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	24	2	0
scuds	0	0	1	0	1	3
sowbugs	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>						
blackfly larvae	0	0	0	0	0	0
leeches	0	2	0	0	3	0
midge larvae	0	0	4	6	20	0
snails	0	0	0	0	0	0
aquatic worms	0	0	0	1	3	0
<b>Water Quality Score</b>	43.8	34.6	34.6	32.1	30.7	21.4
<b>Water Quality Rating</b>	Good	Fair	Fair	Fair	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 7**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Sample Point 1120 - Cherry Run #5**

Water Body Name	Chrey Run #5	Chrey Run #5	Chrey Run #5	Chrey Run #5	Chrey Run #5	Chrey Run #5	Chrey Run #5
Site ID	1120	1120	1120	1120	1120	1120	1120
Date	10/13/2003	5/10/2004	10/4/2004	5/9/2005	4/24/2006	9/18/2006	3/26/2007
Length of Assessed Area	1	1	1	1	1	1	1
Stream Type					meandering	meandering	meandering
Precipitation recent					showers	clear	clear
Precipitation current					showers	clear	clear
Stream Bottom					rocky	rocky	rocky
silt sand gravel substrate							
vegetated bank margins							
snags and logs							
aquatic vegetation beds							
<b>GROUP 1 - Sensitive</b>							
gilled snails	0	0	0	0	0	0	0
helgrammites	1	0	0	0	0	3	0
mayfly nymphs	16	0	7	42	3	3	101
non net spinning caddisfly larvae	28	6	138	56	9	11	101
riffle beetle adults	0	10	1	0	3	8	0
stonefly nymphs	0	0	0	0	15	0	0
water penny larvae	1	1	8	0	12	32	14
<b>GROUP 2 - Somewhat Sensitive</b>							
alderfly larvae	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0
crane fly larvae	5	0	4	0	6	0	3
crayfish	0	1	3	7	0	3	0
damsel fly nymphs	12	0	0	0	3	0	0
dragonfly nymphs	2	0	0	0	3	18	0
fish fly larvae	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	1	0	120	0	140	101
scuds	0	0	0	1	0	0	0
sowbugs	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>							
black fly larvae	0	0	0	1	0	0	0
leeches	0	0	0	0	0	0	0
midge larvae	0	0	3	4	9	0	6
snails	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0	0
<b>Water Quality Score</b>	19.8	25.4	32.3	24.2	38	35.8	23.6
<b>Water Quality Rating</b>	Poor	Fair	Fair	Fair	Fair	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 8**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Sample Point 1121 - Cherry Run #6**

Water Body Name	Chreey Run #6	Chreey Run #6	Chreey Run #6	Chreey Run #6	Chreey Run #6	Chreey Run #6
Site ID	1121	1121	1121	1121	1121	1121
Date	9/20/2003	5/17/2004	10/11/2004	5/16/2005	5/1/2006	9/25/2006
Length of Assessed Area	1	1	1	1	1	1
Stream Type					meandering	channelized
Precipitation recent					overcast	overcast
Precipitation current					overcast	overcast
Stream Bottom					rocky	rocky
silt sand gravel substrate						
vegetated bank margins						
snags and logs						
aquatic vegetation beds						
<b>GROUP 1 - Sensitive</b>						
gilled snails	0	0	0	0	0	0
helgrammites	0	0	0	0	0	0
mayfly nymphs	10	0	15	0	0	5
non net spinning caddisfly larvae	67	3	33	120	24	6
riffle beetle adults	0	11	0	0	14	0
stonefly nymphs	0	0	0	0	5	0
water penny larvae	1	0	0	4	0	14
<b>GROUP 2 - Somewhat Sensitive</b>						
alderfly larvae	0	0	0	0	0	0
Beetle Larvae	1	0	0	2	0	0
clams	0	0	0	0	0	0
crane fly larvae	2	0	3	0	0	0
crayfish	4	1	0	4	0	2
damselfly nymphs	0	0	0	0	1	0
dragonfly nymphs	0	0	0	1	0	0
fishfly larvae	0	0	0	0	0	0
net spinning caddisfly larvae	4	0	0	3	7	18
scuds	0	0	0	1	4	3
sowbugs	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>						
blackfly larvae	0	0	0	0	0	1
leeches	0	0	0	0	0	0
midge larvae	0	1	0	1	14	0
snails	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0
<b>Water Quality Score</b>	28.7	15	15.6	22.4	26.9	26.6
<b>Water Quality Rating</b>	Fair	Poor	Poor	Fair	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 9**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Cherry Run**  
**Sample Point 1184 - Cherry Run #7**

Water Body Name	Chreey Run #7	Chreey Run #7	Chreey Run #7	Chreey Run #7	Chreey Run #7
Site ID	1184	1184	1184	1184	1184
Date	5/17/2004	10/11/2004	5/23/2005	4/10/2006	10/2/2006
Length of Assessed Area	1	1	1	1	1
Stream Type				meandering	meandering
Precipitation recent				clear	showers
Precipitation current				clear	clear
Stream Bottom				rocky	rocky
silt sand gravel substrate					
vegetated bank margins					
snags and logs					
aquatic vegetation beds					
<b>GROUP 1 - Sensitive</b>					
gilled snails	0	0	0	0	
helgrammites	1	0	0	2	7
mayfly nymphs	122	9	14	5	21
non net spinning caddisfly larvae	40	14	104	0	6
riffle beetle adults	0	0	0	0	4
stonefly nymphs	26	0	6	21	
water penny larvae	0	0	0	0	
<b>GROUP 2 - Somewhat Sensitive</b>					
alderfly larvae	0	0	0	0	0
Beetle Larvae	0	0	0	22	0
clams	0	0	0	0	0
cranefly larvae	0	0	0	0	2
crayfish	3	6	9	4	6
damselfly nymphs	0	0	0	0	0
dragonfly nymphs	0	0	0	0	0
fishfly larvae	0	0	0	0	0
net spinning caddisfly larvae	0	0	6	6	13
scuds	0	0	0	0	0
sowbugs	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>					
blackfly larvae	0	0	6	0	0
leeches	0	0	0	0	0
midge larvae	4	0	0	0	0
snails	0	0	0	0	0
aquatic worms	0	0	0	0	0
<b>Water Quality Score</b>	32.3	13.8	23.5	26.8	30.4
<b>Water Quality Rating</b>	Fair	Poor	Fair	Fair	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 10**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Ramsey Run**  
**Site ID 823 - Ramsey Run**

<b>Water Body Name</b>	<b>Ramsey Run</b>
<b>Site ID</b>	823
<b>Date</b>	6/8/2006
<b>Length of Assessed Area</b>	10
<b>Stream Type</b>	,pool/riffle
<b>Precipitation recent</b>	clear
<b>Precipitation current</b>	clear
<b>Stream Bottom</b>	rocky
<b>silt sand gravel substrate</b>	0
<b>vegetated bank margins</b>	0
<b>snags and logs</b>	0
<b>aquatic vegetation beds</b>	0
<b>GROUP 1 - Sensitive</b>	0
gilled snails	0
helgrammites	2
mayfly nymphs	0
non net spinning caddisfly larvae	4
riffle beetle adults	0
stonefly nymphs	27
water penny larvae	4
<b>GROUP 2 - Somewhat Sensitive</b>	0
alderfly larvae	0
Beetle Larvae	0
clams	0
crane-fly larvae	0
crayfish	7
damselfly nymphs	4
dragonfly nymphs	0
fishfly larvae	0
net spinning caddisfly larvae	0
scuds	0
sowbugs	0
<b>GROUP 3 - Tolerant</b>	0
blackfly larvae	0
leeches	0
midge larvae	0
snails	0
aquatic worms	0
<b>Water Quality Score</b>	21.8
<b>Water Quality Rating</b>	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 11**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Stoney Run**  
**Site ID 804 - Stoney Run**

<b>Water Body Name</b>	<b>Stoney Run</b>
<b>Site ID</b>	804
<b>Date</b>	9/1/2000
<b>Length of Assessed Area</b>	10
<b>Stream Type</b>	
<b>Precipitation recent</b>	
<b>Precipitation current</b>	
<b>Stream Bottom</b>	
<b>silt sand gravel substrate</b>	
<b>vegetated bank margins</b>	
<b>snags and logs</b>	
<b>aquatic vegetation beds</b>	
<b>GROUP 1 - Sensitive</b>	
gilled snails	0
helgrammites	4
mayfly nymphs	2
non net spinning caddisfly larvae	100
riffle beetle adults	0
stonefly nymphs	0
water penny larvae	0
<b>GROUP 2 - Somewhat Sensitive</b>	
alderfly larvae	0
Beetle Larvae	0
clams	0
crane-fly larvae	0
crayfish	1
damselfly nymphs	0
dragonfly nymphs	
fishfly larvae	0
net spinning caddisfly larvae	0
scuds	0
sowbugs	28
<b>GROUP 3 - Tolerant</b>	
blackfly larvae	0
leeches	3
midge larvae	0
snails	0
aquatic worms	0
<b>Water Quality Score</b>	23.1
<b>Water Quality Rating</b>	Fair

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 12**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 580 - Tearing Run #1**

Water Body Name	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1	Tearing Run #1
Site ID	580	580	580	580	580	580	580	580	580
Date	12/9/1998	6/21/1999	4/10/2000	9/11/2000	5/29/2001	10/8/2001	4/17/2002	11/4/2002	5/5/2003
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
Stream Type									
Precipitation recent									
Precipitation current									
Stream Bottom									
silt sand gravel substrate									
vegetated bank margins									
snags and logs									
aquatic vegetation beds									
<b>GROUP 1 - Sensitive</b>									
gilled snails	0	0	0	0	0	0	0	0	0
helgrammites	0	0	0	2	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	1	0	0
non net spinning caddisfly larvae	0	0	0	0	3	2	0	0	1
riffle beetle adults	0	0	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	1	0	0	0	0
water penny larvae	0	0	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>									
alderfly larvae	0	0	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0	0	0
crane fly larvae	0	0	5	0	3	5	0	12	9
crayfish	0	0	0	0	2	0	1	0	1
damselfly nymphs	0	0	0	0	0	2	0	0	0
dragonfly nymphs					0	2	0	0	1
fishfly larvae	0	0	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	1	1	0	3	0	3	0	0
scuds	0	0	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>									
blackfly larvae	0	0	0	0	0	0	5	0	0
leeches	0	0	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0	0	0	0
<b>Water Quality Score</b>	0	3.2	6.4	5	19.6	14.6	12	3.2	14.6
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66



**Table13**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 581 - Tearing Run # 2**

Water Body Name	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2	Tearing Run #2
<b>Site ID</b>	581	581	581	581	581	581	581
<b>Date</b>	12/21/1998	7/19/1999	5/8/2000	8/28/2000	4/23/2001	4/30/2001	9/24/2001
<b>Length of Assessed Area</b>	1.22	1.22	1.22	1.22	1.22	1.22	1.22
<b>Stream Type</b>							
<b>Precipitation recent</b>							
<b>Precipitation current</b>							
<b>Stream Bottom</b>							
<b>silt sand gravel substrate</b>							
<b>vegetated bank margins</b>							
<b>snags and logs</b>							
<b>aquatic vegetation beds</b>							
<b>GROUP 1 - Sensitive</b>							
gilled snails	0	0	0	0	0	0	0
helgrammites	0	0	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	0
non net spinning caddisfly larvae	0	0	0	0	0	0	0
riffle beetle adults	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	0	0	0
water penny larvae	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>							
alderfly larvae	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0
crane fly larvae	0	0	0	0	0	0	0
crayfish	0	0	0	0	0	0	0
damselfly nymphs	0	0	0	0	0	0	0
dragonfly nymphs					0	0	0
fishfly larvae	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	0	0	0	0
scuds	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>							
blackfly larvae	0	0	0	0	0	0	0
leeches	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0	0
<b>Water Quality Score</b>	0	0	0	0	0	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 5**  
**Summary of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Macroinvertebrate Study**  
**Sample Point 458**  
**(Continued)**

Water Body Name	Tearing Run #2	Tearing Run #2	Tearing Run #2
<b>Site ID</b>	581	581	581
<b>Date</b>	4/1/2002	10/21/2002	4/28/2003
<b>Length of Assessed Area</b>	1.22	1.22	1.22
<b>Stream Type</b>			
<b>Precipitation recent</b>			
<b>Precipitation current</b>			
<b>Stream Bottom</b>			
<b>silt sand gravel substrate</b>			
<b>vegetated bank margins</b>			
<b>snags and logs</b>			
<b>aquatic vegetation beds</b>			
<b>GROUP 1 - Sensitive</b>			
gilled snails	0	0	0
helgrammites	0	0	0
mayfly nymphs	0	0	0
non net spinning caddisfly larvae	0	0	0
riffle beetle adults	0	0	0
stonefly nymphs	0	0	0
water penny larvae	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>			
alderfly larvae	0	0	0
Beetle Larvae	0	0	0
clams	0	0	0
crane fly larvae	0	0	0
crayfish	0	0	0
damselfly nymphs	0	0	0
dragonfly nymphs	0	0	0
fishfly larvae	0	0	0
net spinning caddisfly larvae	0	0	0
scuds	0	0	0
sowbugs	0	0	0
<b>GROUP 3 - Tolerant</b>			
blackfly larvae	0	0	0
leeches	0	0	0
midge larvae	0	0	0
snails	0	0	0
aquatic worms	0	0	0
<b>Water Quality Score</b>	0	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor

**Table 14**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 582 - Tearing Run #3**

Water Body Name	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3	Tearing Run #3
Site ID	582	582	582	582	582	582	582	582
Date	12/2/1998	6/7/1999	4/3/2000	9/11/2000	10/1/2001	4/8/2002	9/30/2002	5/12/2003
Length of Assessed Area	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63
Stream Type								
Precipitation recent								
Precipitation current								
Stream Bottom								
silt sand gravel substrate								
vegetated bank margins								
snags and logs								
aquatic vegetation beds								
<b>GROUP 1 - Sensitive</b>								
gilled snails	0	0	0	0	0	0	0	0
helgrammites	0	0	1	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	0	0
non net spinning caddisfly larvae	0	0	0	0	0	0	0	0
riffle beetle adults	0	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	0	0	0	0
water penny larvae	0	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>								
alderfly larvae	0	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0	0
crane fly larvae	0	0	0	0	0	0	0	0
crayfish	0	0	0	0	0	1	0	0
damsel fly nymphs	0	0	0	0	0	0	0	0
dragonfly nymphs					0	0	0	0
fish fly larvae	0	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	0	0	1	0	0
scuds	0	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>								
black fly larvae	0	0	0	0	0	1	0	0
leeches	0	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	2	0	0
<b>Water Quality Score</b>	0	0	5	0	0	8.6	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 15**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 583 - Tearing Run #4**

Water Body Name	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4	Tearing Run #4
Site ID	583	583	583	583	583	583	583
Date	11/23/1998	7/19/1999	5/8/2000	8/28/2000	4/23/2001	9/24/2001	4/1/2002
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32
Stream Type							
Precipitation recent							
Precipitation current							
Stream Bottom							
silt sand gravel substrate							
vegetated bank margins							
snags and logs							
aquatic vegetation beds							
<b>GROUP 1 - Sensitive</b>							
gilled snails	0	0	0	0	0	0	0
helgrammites	0	0	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	0
non net spinning caddisfly larvae	0	0	0	0	0	0	0
rifle beetle adults	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	0	0	0
water penny larvae	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>							
alderfly larvae	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0
crane fly larvae	0	0	0	0	0	0	0
crayfish	0	0	0	0	0	0	0
damselfly nymphs	0	0	0	0	0	0	0
dragonfly nymphs					0	0	0
fishfly larvae	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	0	0	0	1
scuds	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>							
blackfly larvae	0	0	0	0	0	0	0
leeches	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	3	0
<b>Water Quality Score</b>	0	0	0	0	0	1.2	3.2
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 7**  
**Summary of Data From Pennsylvania Senior Environmental Corps (PaSEC)**  
**Macroinvertebrate Study**  
**Sample Point 583 - Tearing Run # 4**  
**(Continued)**

Water Body Name	Tearing Run #4	
Site ID	583	583
Date	10/21/2002	4/28/2003
Length of Assessed Area	7.32	7.32
Stream Type		
Precipitation recent		
Precipitation current		
Stream Bottom		
silt sand gravel substrate		
vegetated bank margins		
snags and logs		
aquatic vegetation beds		
<b>GROUP 1 - Sensitive</b>		
gilled snails	0	0
helgrammites	1	0
mayfly nymphs	0	0
non net spinning caddisfly larvae	0	0
riffle beetle adults	0	0
stonefly nymphs	0	0
water penny larvae	0	0
<b>GROUP 2 - Somewhat Sensitive</b>		
alderfly larvae	0	0
Beetle Larvae	0	0
clams	0	0
crane fly larvae	0	0
crayfish	0	0
damselfly nymphs	0	0
dragonfly nymphs	0	0
fishfly larvae	0	0
net spinning caddisfly larvae	0	0
scuds	0	0
sowbugs	0	0
<b>GROUP 3 - Tolerant</b>		
blackfly larvae	0	0
leeches	0	0
midge larvae	0	0
snails	0	0
aquatic worms	0	0
<b>Water Quality Score</b>	5	0
<b>Water Quality Rating</b>	Poor	Poor

**Table 16**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 584 - Tearing Run #5**

<b>Water Body Name</b>	<b>Tearing Run #5</b>	<b>Tearing Run #5</b>	<b>Tearing Run #5</b>
<b>Site ID</b>	584	584	584
<b>Date</b>	4/24/2000	4/9/2001	5/14/2002
<b>Length of Assessed Area</b>	1.22	1.22	1.22
<b>Stream Type</b>			
<b>Precipitation recent</b>			
<b>Precipitation current</b>			
<b>Stream Bottom</b>			
<b>silt sand gravel substrate</b>			
<b>vegetated bank margins</b>			
<b>snags and logs</b>			
<b>aquatic vegetation beds</b>			
<b>GROUP 1 - Sensitive</b>			
gilled snails	0	0	0
helgrammites	0	0	0
mayfly nymphs	0	0	0
non net spinning caddisfly larvae	0	0	0
riffle beetle adults	0	0	0
stonefly nymphs	0	0	0
water penny larvae	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>			
alderfly larvae	0	0	0
Beetle Larvae	0	0	0
clams	0	0	0
crane fly larvae	0	0	0
crayfish	0	0	0
damsel fly nymphs	0	0	0
dragonfly nymphs		0	0
fishfly larvae	0	0	0
net spinning caddisfly larvae	0	0	0
scuds	0	0	0
sowbugs	0	0	0
<b>GROUP 3 - Tolerant</b>			
blackfly larvae	0	0	0
leeches	0	0	0
midge larvae	0	0	0
snails	0	0	0
aquatic worms	0	0	0
<b>Water Quality Score</b>	0	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 17**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Sample Point 585 - Tearing Run #6**

Water Body Name	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6	Tearing Run #6
Site ID	585	585	585	585	585	585	585	585	585
Date	12/16/1998	6/28/1999	4/24/2000	8/21/2000	4/9/2001	9/17/2001	5/14/2002	10/18/2002	6/23/2003
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
Stream Type									
Precipitation recent									
Precipitation current									
Stream Bottom									
silt sand gravel substrate							3		
vegetated bank margins									
snags and logs									
aquatic vegetation beds									
<b>GROUP 1 - Sensitive</b>									
gilled snails	0	0	0	0	0	0	0	0	0
helgrammites	0	1	0	1	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	0	0	0
non net spinning caddisfly larvae	0	0	0	1	0	0	0	0	0
riffle beetle adults	0	0	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	0	0	0	0	0
water penny larvae	0	0	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>									
alderfly larvae	0	0	0	0	0	0	0	0	0
Beetle Larvae	0	0	0	0	0	0	0	0	0
clams	0	0	0	0	0	0	0	0	0
crane fly larvae	0	0	0	0	0	0	0	0	0
crayfish	0	0	0	0	0	0	0	0	0
damselfly nymphs	0	0	0	0	0	0	0	0	0
dragonfly nymphs					0	0	0	0	0
fishfly larvae	0	0	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	0	0	0	0	0	0
scuds	0	0	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>									
blackfly larvae	0	0	0	0	0	0	0	0	0
leeches	0	0	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0	0	0	0
<b>Water Quality Score</b>	0	5	0	10	0	0	0	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor

0

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 18**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Site ID 587 - Tearing Run #8**

Water Body Name	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8	Tearing Run #8
Site ID	587	587	587	587	587	587	587	587
Date	12/9/1998	6/21/1999	4/10/2000	5/29/2001	10/8/2001	4/17/2002	11/4/2002	5/5/2003
Length of Assessed Area	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
Stream Type								
Precipitation recent								
Precipitation current								
Stream Bottom								
silt sand gravel substrate								
vegetated bank margins								
snags and logs								
aquatic vegetation beds								
<b>GROUP 1 - Sensitive</b>								
gilled snails	0	0	0	0	0	0	0	0
helgrammites	0	0	0	0	0	0	0	0
mayfly nymphs	0	0	0	0	0	0	0	0
non net spinning caddisfly larvae	0	0	1	1	4	0	4	1
riffle beetle adults	0	0	0	0	0	0	0	0
stonefly nymphs	0	0	0	0	0	0	0	0
water penny larvae	0	0	0	0	0	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>								
alderfly larvae	0	0	0	0	0	3	0	0
Beetle Larvae	0	0	0	0	0	0	1	0
clams	0	0	0	0	0	0	0	0
crane fly larvae	0	0	1	0	0	0	0	5
crayfish	0	0	0	0	0	0	0	0
damselfly nymphs	0	0	0	0	0	0	0	0
dragonfly nymphs				0	0	4	0	0
fishfly larvae	0	0	0	0	0	0	0	0
net spinning caddisfly larvae	0	0	0	0	0	4	0	0
scuds	0	0	0	0	0	0	0	0
sowbugs	0	0	0	0	0	0	0	0
<b>GROUP 3 - Tolerant</b>								
blackfly larvae	0	0	0	0	2	4	0	0
leeches	0	0	0	0	0	0	0	0
midge larvae	0	0	0	0	0	0	0	0
snails	0	0	0	0	0	0	0	0
aquatic worms	0	0	0	0	0	0	0	0
<b>Water Quality Score</b>	0	0	8.2	5	6.2	10.8	8.2	8.2
<b>Water Quality Rating</b>	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66



**Table 19**  
**Summary Of Data From Pennsylvania Environment Corps (PaSEC)**  
**Macroinvertebrate Study Of Tearing Run**  
**Site ID 981 - Tearing Run #9**

<b>Water Body Name</b>	<b>Tearing Run #9</b>	<b>Tearing Run #9</b>
<b>Site ID</b>	981	981
<b>Date</b>	4/29/2002	6/16/2003
<b>Length of Assessed Area</b>	1	1
<b>Stream Type</b>		
<b>Precipitation recent</b>		
<b>Precipitation current</b>		
<b>Stream Bottom</b>		
<b>silt sand gravel substrate</b>		
<b>vegetated bank margins</b>		
<b>snags and logs</b>		
<b>aquatic vegetation beds</b>		
<b>GROUP 1 - Sensitive</b>		
gilled snails	0	0
helgrammites	0	0
mayfly nymphs	0	0
non net spinning caddisfly larvae	0	0
rifle beetle adults	0	0
stonefly nymphs	0	0
water penny larvae	0	0
<b>GROUP 2 - Somewhat Sensitive</b>		
alderfly larvae	0	0
Beetle Larvae	0	0
clams	0	0
crane fly larvae	0	0
crayfish	0	0
damselfly nymphs	0	0
dragonfly nymphs	0	0
fishfly larvae	0	0
net spinning caddisfly larvae	0	0
scuds	0	0
sowbugs	0	0
<b>GROUP 3 - Tolerant</b>		
blackfly larvae	0	0
leeches	0	0
midge larvae	0	0
snails	0	0
aquatic worms	0	0
<b>Water Quality Score</b>	0	0
<b>Water Quality Rating</b>	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table 20**

**Summary Of Data From Pennsylvania Environment Corps (PaSEC)  
Macroinvertebrate Study Of Tearing Run  
Site ID 982 - Tearing Run #10**

<b>Water Body Name</b>	<b>Tearing Run #10</b>	<b>Tearing Run #10</b>	<b>Tearing Run #10</b>
<b>Site ID</b>	982	982	982
<b>Date</b>	4/29/2002	10/14/2002	6/16/2003
<b>Length of Assessed Area</b>	1	1	1
<b>Stream Type</b>			
<b>Precipitation recent</b>			
<b>Precipitation current</b>			
<b>Stream Bottom</b>			
<b>silt sand gravel substrate</b>			
<b>vegetated bank margins</b>			
<b>snags and logs</b>			
<b>aquatic vegetation beds</b>			
<b>GROUP 1 - Sensitive</b>			
gilled snails	0	0	0
helgrammites	0	0	0
mayfly nymphs	0	0	0
non net spinning caddisfly larvae	0	0	0
riffle beetle adults	0	0	0
stonefly nymphs	0	0	0
water penny larvae	0	0	0
<b>GROUP 2 - Somewhat Sensitive</b>			
alderfly larvae	0	0	0
Beetle Larvae	0	0	0
clams	0	0	0
crane fly larvae	0	0	0
crayfish	0	0	0
damsel fly nymphs	0	0	0
dragonfly nymphs	0	0	0
fish fly larvae	0	0	0
net spinning caddisfly larvae	0	0	0
scuds	0	0	0
sowbugs	0	0	0
<b>GROUP 3 - Tolerant</b>			
black fly larvae	0	0	0
leeches	0	0	0
midge larvae	0	0	0
snails	0	0	0
aquatic worms	0	0	0
<b>Water Quality Score</b>	0	0	0
<b>Water Quality Rating</b>	Poor	Poor	Poor

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 66

**Table21**  
**Summary Of Data From Pennsylvania Senior Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Buck Run**  
**Site ID 592**

<b>Water Body Name</b>	<b>Buck Run</b>	<b>Buck Run</b>
<b>Site ID</b>	592	592
<b>Monitor Date</b>	6/23/1999	9/14/1999
<b>River Mile Index</b>	23.43	23.43
<b>Type of Water Body</b>	stream	stream
<b>Length of Assessed Area</b>	30	30
<b>Features</b>		
<b>Water Appearance</b>	clear	clear
<b>Water Appearance Note</b>		
<b>Soil Odors</b>	non-wadable	non-wadable
<b>Soil Odors Note</b>		
<b>Sediment Deposits</b>	none	sand
<b>Sediment Deposits Note</b>		
<b>Stream Type</b>	meandering	meandering
<b>Dams</b>	no	no
<b>High Water Mark</b>		1
<b>Highwater Estimate</b>		
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional
<b>Inorganic Stream Bottom</b>		
<b>% Bedrock</b>		
<b>% Boulder</b>	20	20
<b>% Cobble</b>	20	15
<b>% Gravel</b>	15	20
<b>% Sand</b>	5	
<b>% Silt</b>	5	15
<b>% Clay</b>		
<b>% Other</b>		
<b>other note</b>		
<b>Organic Stream Bottom</b>		
<b>%_Muck-mud</b>		
<b>% Pulpy peat</b>	5	5
<b>% Fibrous peat</b>	5	5
<b>% Detritus</b>	5	10
<b>% Logs limbs</b>		
<b>% Marl</b>		
<b>% Other</b>	20	10
<b>Other description</b>	algae	algae

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 8**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Gillhouse Run**  
**Site ID 750**  
**(Continued)**

<b>Site ID</b>	592	592
<b>Monitor Date</b>	6/23/1999	9/14/1999
<b>Non Wadable</b>		
<b>Land Use</b>		
<b>% Wetlands</b>		
<b>% Forest</b>	25	25
<b>% Cropland</b>		
<b>% Pasture</b>		
<b>% Residential</b>		
<b>% Commercial</b>		
<b>% Industrial</b>		25
<b>% Unused abandoned</b>	25	25
<b>% Overgrown shrub and small trees</b>	50	25
<b>% Other</b>		
<b>Other Land Use Note</b>		
<b>Precipitation current</b>	clear	overcast
<b>Precipitation recent</b>	clear	showers
<b>Water Odors</b>	none	none
<b>Water Odors Note</b>		
<b>Stream Width</b>	4.75	5.49
<b>Non-Wadable</b>		
<b>Stream Width Note</b>		
<b>Stream Depth</b>	0.124	0.0812
<b>Non-Wadable</b>		
<b>Stream depth note</b>		
<b>Surface Velocity</b>		
<b>Surface Velocity Note</b>		
<b>Stream Flow Volume or Discharge</b>		
<b>USGS Gaging</b>		
<b>Air Temperature C</b>	22	20
<b>Air Temperature F</b>		
<b>Water Temperature C</b>	14	16
<b>Water Temperature F</b>		
<b>pH, S. U.</b>	4.3	4.8
<b>Dissolved Oxygen, mg/L</b>	9	8
<b>Specific Conductance</b>	440	5780
<b>Nitrate, mg/L</b>	0	0.44
<b>Total Phosphate, mg/L</b>	0.5	0.1
<b>Sulfate, mg/L</b>	200	200
<b>Total Alkalinity, mg/L as CaCO3</b>	20	20
<b>Other observations comments</b>		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	9/28/1998	12/7/1998	12/7/1998	1/5/1999	2/15/1999	3/22/1999	6/14/1999	8/16/1999
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance	other	clear				other	clear	clear
Note	not specified					high		
Soil Odors	non-wadable	non-wadable					wadable	wadable
Soil Odors Note								
Sediment Deposits	none	none					sludge	none
Sediment Deposits Note								
Stream Type	meandering	meandering					pool/riffle	meandering pool/riffle
Dams		no					no	
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular					rectangular	rectangular
Stream Bank Erosion	occasional	occasional					occasional	occasional
Bottom								
% Bedrock								
% Boulder								
% Cobble		70					40	45
% Gravel							40	40
% Sand							5	5
% Silt							5	5
% Clay							10	
% Other	50							
other note	not specified							
Organic Stream Bottom								
% Muck-mud								5
% Pulpy peat		30						
% Fibrous peat								
% Detritus								
% Logs limbs								
% Marl								
% Other	50							
Other description	not specified							
Non Wadable								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460
Monitor Date	9/28/1998	12/7/1998	12/7/1998	1/5/1999	2/15/1999	3/22/1999	6/14/1999	8/16/1999
Land Use								
% Wetlands								
% Forest								
% Cropland								
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned		100					50	100
% Overgrown shrub and small trees							50	
% Other	100							
Other Land Use Note	not specified							
Precipitation current	clear	overcast	overcast	overcast	clear	showers	overcast	clear
Precipitation recent	clear	showers	overcast	overcast	clear	showers	clear	overcast
Water Odors	none	none					none	none
Water Odors Note								
Stream Width		5.25					4.39	4.3
Non-Wadable	non-wadable							
Stream Width Note	not specified							
Stream Depth		0.122					0.081	0.359
Non-Wadable	non-wadable							
Stream depth note	not specified							
Surface Velocity		0.38					0.29	0.31
Surface Velocity Note								
Stream Flow Volume or Discharge		2.1					0.0083	0.385
USGS Gaging								
Air Temperature C	20		16	-8	2	0	25	18
Air Temperature F								
Water Temperature C	20		14	4	2	4	21	18
Water Temperature F								
pH, S. U.	6.9		6.7	6.5	6.6	5.9	6.2	6.4
Dissolved Oxygen, mg/L	5		8	11	12	13	7	9
Specific Conductance	510		700	460	180	180	370	290
Nitrate, mg/L	0.26		1.8	2.6	74	4.4	1.3	2.2
Total Phosphate, mg/L	0.28		0.42	0.2	0	0.3	0.22	0.38
Sulfate, mg/L	200		200	200	75	50	200	150
Total Alkalinity, mg/L as CaCO3	115		140	80	140	20	95	75

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	9/27/1999	11/1/1999	1/4/2000	3/13/2000	4/17/2000	6/26/2000	8/14/2000	9/18/2000
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance	clear	clear	muddy/cloudy	clear	clear	muddy/cloudy	clear	clear
Note								
Soil Odors	non-wadable	wadable	non-wadable	wadable	wadable	non-wadable	wadable	wadable
Soil Odors Note								
Sediment Deposits	other	none	non-wadable	none	none	sludge	none	none
Sediment Deposits Note	silt							
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams	no	no						
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	none	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder	1		10			5		5
% Cobble	35	50	35	10	80	10	40	45
% Gravel	9	20	15	40	15	40	10	20
% Sand	5	15		20	5	10	10	10
% Silt	5	10		20		10	20	10
% Clay				5			5	
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud						15		
% Pulpy peat								
% Fibrous peat	5		20			10		
% Detritus	30	5	20	5			15	5
% Logs limbs	10							5
% Marl								
% Other								
Other description								
Non Wadable								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460
Monitor Date	9/27/1999	11/1/1999	1/4/2000	3/13/2000	4/17/2000	6/26/2000	8/14/2000	9/18/2000
Land Use								
% Wetlands								
% Forest							50	
% Cropland								
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned	100	25	50					100
% Overgrown shrub and small trees		75	50	100	100	100	50	
% Other								
Other Land Use Note								
Precipitation current	clear	clear	rain	clear	overcast	showers	clear	clear
Precipitation recent	clear	clear	rain	showers	clear	showers	overcast	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	4.24	4.6	5	6.48	6.76	3.84	6.33	6.34
Non-Wadable								
Stream Width Note								
Stream Depth	0.324	0.0699	0.5	0.327	0.274	0.21	0.152	0.144
Non-Wadable								
Stream depth note								
Surface Velocity	0.09	0.15		0.04	0.52	0.46	0.29	0.4
Surface Velocity Note								
Stream Flow Volume or Discharge	0.0113	0.0388		0.076	0.783	0.301	0.224	0.299
USGS Gaging								
Air Temperature C	20	15	11	0	14	23	17	13
Air Temperature F								
Water Temperature C	16	12	8	3	14	22	18	13
Water Temperature F								
pH, S. U.	6.7	6.8	6.6	6.9	6.3	5.9	6.1	6.4
Dissolved Oxygen, mg/L	8	10	10	44	11	6	8	8
Specific Conductance	660	770	460	220	240	360	380	310
Nitrate, mg/L	0.26	3.7	0.26	3	0.44	4.4	3	2
Total Phosphate, mg/L	0.36	0.38	0.78	0.34	0.004	0.44	0.1	1
Sulfate, mg/L	200	200	80	70	70	90	95	100
Total Alkalinity, mg/L as CaCO3	110	150	65	35	30	60	65	70

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 22c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	11/20/2000	1/8/2001	2/13/2001	3/26/2001	6/11/2001	7/23/2001	9/14/2001	10/15/2001
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	clear	clear
Note								
Soil Odors	wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note								
Sediment Deposits	none	wadable	none	none	none	none	none	none
Sediment Deposits Note								
Stream Type	meandering	meandering	meandering	meandering pool/riffle	meandering pool/riffle	meandering	meandering	meandering
Dams	no		no	no	no			
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular		rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder	10	10		10		10		
% Cobble	30	40	10	50	10	60	60	55
% Gravel	20	20	60	20	75	20	20	30
% Sand	10	10	20	5		5	5	5
% Silt	10	5	5		15	5	10	5
% Clay							5	
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud								
% Pulpy peat								
% Fibrous peat				10				
% Detritus	20	15	5	5				5
% Logs limbs								
% Marl								
% Other								
Other description								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 Cherry Run #1**  
**(Continued)**

<b>Site ID</b>	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	11/20/2000	1/8/2001	2/13/2001	3/26/2001	6/11/2001	7/23/2001	9/14/2001	10/15/2001
<b>Non Wadable</b>								
<b>Land Use</b>								
<b>% Wetlands</b>								
<b>% Forest</b>		100	100	100	100	100	100	50
<b>% Cropland</b>								
<b>% Pasture</b>								
<b>% Residential</b>								
<b>% Commercial</b>								
<b>% Industrial</b>								
<b>% Unused abandoned</b>								
<b>% Overgrown shrub and small trees</b>	100							50
<b>% Other</b>								
<b>Other Land Use Note</b>								
<b>Precipitation current</b>	showers	overcast	overcast	showers	overcast	clear	clear	clear
<b>Precipitation recent</b>	showers	clear	overcast	showers	clear	clear	rain	rain
<b>Water Odors</b>	none	none	none	none	none	none	none	none
<b>Water Odors Note</b>								
<b>Stream Width</b>	6.49		6.59	6.63	6.56	4.718	6.22	6.81
<b>Non-Wadable</b>		non-wadable						
<b>Stream Width Note</b>								
<b>Stream Depth</b>	0.1364		0.258	0.262	0.162	0.0792	0.1104	0.1288
<b>Non-Wadable</b>		non-wadable						
<b>Stream depth note</b>								
<b>Surface Velocity</b>	0.36		0.5	0.61	0.39	0.12	0.13	0.09
<b>Surface Velocity Note</b>								
<b>Stream Flow Volume or Discharge</b>	0.257		0.69	0.849	0.334	0.0368	0.07	0.0659
<b>USGS Gaging</b>								
<b>Air Temperature C</b>	0	1	6	0	18	23	17	11
<b>Air Temperature F</b>								
<b>Water Temperature C</b>	1	0	4	1	17	21	15	11
<b>Water Temperature F</b>								
<b>pH, S. U.</b>	6.3	6.4	5.8	5.8	6.4	6.8	6.6	6.8
<b>Dissolved Oxygen, mg/L</b>	12	12	12	14	8	7	9	6
<b>Specific Conductance</b>	300	370	230	210	280	360	850	1160
<b>Nitrate, mg/L</b>	2.9	4.4	4.2	4.4	3.9	1.2	0.61	0.26
<b>Total Phosphate, mg/L</b>	0.66	0.84	0.38	0.2	0.9	0.3	0.54	0.98
<b>Sulfate, mg/L</b>	125	150	75	70	100	125	0	0
<b>Total Alkalinity, mg/L as CaCO3</b>	65	55	35	30	55	90	90	130

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22d**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	11/28/2001	2/13/2001	3/26/2001	6/11/2001	7/23/2001	9/14/2001	10/15/2001	11/28/2001
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	clear	clear
Note								
Soil Odors	non-wadable	wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note								
Sediment Deposits	none	none	none	none	none	none	none	none
Sediment Deposits Note								
Stream Type	meandering	meandering	meandering pool/riffle	meandering pool/riffle	meandering	meandering	meandering	meandering
Dams	no	no	no	no				no
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular		rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder			10		10			
% Cobble	5	10	50	10	60	60	55	5
% Gravel	80	60	20	75	20	20	30	80
% Sand		20	5		5	5	5	
% Silt	10	5		15	5	10	5	10
% Clay						5		
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud								
% Pulpy peat								
% Fibrous peat			10					
% Detritus	5	5	5				5	5
% Logs limbs								
% Marl								
% Other								
Other description								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22d**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

<b>Site ID</b>	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	11/28/2001	2/13/2001	3/26/2001	6/11/2001	7/23/2001	9/14/2001	10/15/2001	11/28/2001
<b>Non Wadable</b>								
<b>Land Use</b>								
<b>% Wetlands</b>								
<b>% Forest</b>		100	100	100	100	100	50	
<b>% Cropland</b>								
<b>% Pasture</b>	100							100
<b>% Residential</b>								
<b>% Commercial</b>								
<b>% Industrial</b>								
<b>% Unused abandoned</b>								
<b>% Overgrown shrub and small trees</b>							50	
<b>% Other</b>								
<b>Other Land Use Note</b>								
<b>Precipitation current</b>	overcast	overcast	showers	overcast	clear	clear	clear	overcast
<b>Precipitation recent</b>	rain	overcast	showers	clear	clear	rain	rain	rain
<b>Water Odors</b>	none	none	none	none	none	none	none	none
<b>Water Odors Note</b>								
<b>Stream Width</b>	6.22	6.59	6.63	6.56	4.718	6.22	6.81	6.22
<b>Non-Wadable</b>								
<b>Stream Width Note</b>								
<b>Stream Depth</b>	0.1008	0.258	0.262	0.162	0.0792	0.1104	0.1288	0.1008
<b>Non-Wadable</b>								
<b>Stream depth note</b>								
<b>Surface Velocity</b>	0.38	0.5	0.61	0.39	0.12	0.13	0.09	0.38
<b>Surface Velocity Note</b>								
<b>Stream Flow Volume or Discharge</b>	0.192	0.69	0.849	0.334	0.0368	0.07	0.0659	0.192
<b>USGS Gaging</b>								
<b>Air Temperature C</b>	9	6	0	18	23	17	11	9
<b>Air Temperature F</b>								
<b>Water Temperature C</b>	8	4	1	17	21	15	11	8
<b>Water Temperature F</b>								
<b>pH, S. U.</b>	6.3	5.8	5.8	6.4	6.8	6.6	6.8	6.3
<b>Dissolved Oxygen, mg/L</b>	11	12	14	8	7	9	6	11
<b>Specific Conductance</b>	490	230	210	280	360	850	1160	490
<b>Nitrate, mg/L</b>	0.26	4.2	4.4	3.9	1.2	0.61	0.26	0.26
<b>Total Phosphate, mg/L</b>	1.44	0.38	0.2	0.9	0.3	0.54	0.98	1.44
<b>Sulfate, mg/L</b>	150	75	70	100	125	0	0	150
<b>Total Alkalinity, mg/L as CaCO3</b>	80	35	30	55	90	90	130	80

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22e**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	1/28/2002	3/11/2002	4/23/2002	6/10/2002	8/5/2002	10/7/2002	11/18/2002	3/17/2003
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	green	clear
Note								
Soil Odors	wadable	wadable	wadable	wadable	wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note								
Sediment Deposits	none	none	none	none	other	none	none	none
Sediment Deposits Note					iron			
Stream Type	meandering	meandering	meandering	meandering	meanderi ng	meandering	meandering	meandering
Dams								
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangula r	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	l	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder	5	5	10	5	25	30	20	20
% Cobble	75	75	60	40	60	60	60	60
% Gravel	10	15	20	40	10	5	10	10
% Sand	5	5	5	10	5	5	10	5
% Silt	5		5	5				5
% Clay								
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud								
% Pulpy peat								
% Fibrous peat								
% Detritus								
% Logs limbs								
% Marl								
% Other								
Other description								
Non Wadable								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22e**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460
Monitor Date	1/28/2002	3/11/2002	4/23/2002	6/10/2002	8/5/2002	10/7/2002	11/18/2002	3/17/2003
Land Use								
% Wetlands								
% Forest								
% Cropland	100						100	
% Pasture		100	100	50		100		100
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees				50	100			
% Other								
Other Land Use Note								
Precipitation current	clear	clear	overcast	clear	overcast	overcast	overcast	clear
Precipitation recent	clear	clear	showers	clear	clear	clear	rain	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	5.22	4.576	5.28	5.124		4.568	6.16	5.72
Non-Wadable					non-wadable			
Stream Width Note								
Stream Depth	0.218	0.19	0.233	0.2584		0.2216	0.49	0.3292
Non-Wadable					non-wadable			
Stream depth note								
Surface Velocity	0.57	0.27	0.42	0.58		0.21	0.49	0.8
Surface Velocity Note								
Stream Flow Volume or Discharge USGS Gaging	0.517	0.2	0.42	0.619	0.28	0.125	1.19	1.211
Air Temperature C	0	-1	6	20	24	14	0	12
Air Temperature F								
Water Temperature C	2	1	8	18	24	15	5	7
Water Temperature F								
pH, S. U.	5.8	6.4	6.2	6.1	2.8	6.6	6.6	6
Dissolved Oxygen, mg/L	12	16	13	7	4	8	11	10
Specific Conductance	260	340	240	180	880	620	280	190
Nitrate, mg/L	4.4	4.2	3.3	6.6	0.56	3.4	5.3	4.7
Total Phosphate, mg/L	0.26	0.24	1.8	0.66	0.56	5.76	3.6	3.68
Sulfate, mg/L	90	125	70	70	0	200	75	60
Total Alkalinity, mg/L as CaCO3	30	40	35	40	0	20	40	30

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22f**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460
Monitor Date	3/11/2002	4/23/2002	6/10/2002	8/5/2002	10/7/2002	11/18/2002	3/17/2003	6/2/2003
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features								
Water Appearance Note	clear	clear	clear	clear	clear	green	clear	clear
Soil Odors	wadable	wadable	wadable	wadable	wadable	non-wadable	wadable	wadable
Soil Odors Note								
Sediment Deposits	none	none	none	other	none	none	none	none
Sediment Deposits Note				iron				
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams								
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder	5	10	5	25	30	20	20	10
% Cobble	75	60	40	60	60	60	60	60
% Gravel	15	20	40	10	5	10	10	20
% Sand	5	5	10	5	5	10	5	5
% Silt		5	5				5	5
% Clay								
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud								
% Pulpy peat								
% Fibrous peat								
% Detritus								
% Logs limbs								
% Marl								
% Other								
Other description								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22f**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460
Monitor Date	3/11/2002	4/23/2002	6/10/2002	8/5/2002	10/7/2002	11/18/2002	3/17/2003	6/2/2003
Non Wadable								
Land Use								
% Wetlands								
% Forest								
% Cropland						100		
% Pasture	100	100	50		100		100	100
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees			50	100				
% Other								
Other Land Use Note								
Precipitation current	clear	overcast	clear	overcast	overcast	overcast	clear	clear
Precipitation recent	clear	showers	clear	clear	clear	rain	clear	overcast
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	4.576	5.28	5.124		4.568	6.16	5.72	5.364
Non-Wadable				non-wadable				
Stream Width Note								
Stream Depth	0.19	0.233	0.2584		0.2216	0.49	0.3292	0.2336
Non-Wadable				non-wadable				
Stream depth note								
Surface Velocity	0.27	0.42	0.58		0.21	0.49	0.8	0.45
Surface Velocity Note								
Stream Flow Volume or Discharge	0.2	0.42	0.619	0.28	0.125	1.19	1.211	0.451
USGS Gaging								
Air Temperature C	-1	6	20	24	14	0	12	10
Air Temperature F								
Water Temperature C	1	8	18	24	15	5	7	12
Water Temperature F								
pH, S. U.	6.4	6.2	6.1	2.8	6.6	6.6	6	6.5
Dissolved Oxygen, mg/L	16	13	7	4	8	11	10	10
Specific Conductance	340	240	180	880	620	280	190	300
Nitrate, mg/L	4.2	3.3	6.6	0.56	3.4	5.3	4.7	4.5
Total Phosphate, mg/L	0.24	1.8	0.66	0.56	5.76	3.6	3.68	3.76
Sulfate, mg/L	125	70	70	0	200	75	60	70
Total Alkalinity, mg/L as CaCO3	40	35	40	0	20	40	30	50

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 22g**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>	<b>Cherry Run #1</b>
<b>Site ID</b>	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	9/22/2003	11/3/2003	4/27/2004	6/21/2004	8/16/2004	10/18/2004	12/27/2004	3/21/2005
<b>River Mile Index</b>	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream
<b>Area</b>	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
<b>Features</b>								
<b>Water Appearance</b>	clear	clear	clear	clear	milky/white	clear	clear	clear
<b>Note</b>								
<b>Soil Odors</b>	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
<b>Soil Odors Note</b>								
<b>Sediment Deposits</b>	none	none	none	none	none	none	none	none
<b>Sediment Deposits Note</b>								
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>								
<b>High Water Mark</b>								
<b>Highwater Estimate</b>								
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional	occasional	extensive
<b>Bottom</b>								
<b>% Bedrock</b>								
<b>% Boulder</b>	10	10	10	5	5	10	5	5
<b>% Cobble</b>	60	70	40	80	60	70	80	60
<b>% Gravel</b>	20	10	40	10	20	10	10	25
<b>% Sand</b>	5	5	9		10	5	4	5
<b>% Silt</b>	5	4			4	4		4
<b>% Clay</b>								
<b>% Other</b>								
<b>other note</b>								
<b>Organic Stream Bottom</b>								
<b>%_Muck-mud</b>					1			
<b>% Pulpy peat</b>								
<b>% Fibrous peat</b>						1		
<b>% Detritus</b>		1	1	5				
<b>% Logs limbs</b>								
<b>% Marl</b>								1
<b>% Other</b>							1	
<b>Other description</b>							leaves	

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22g**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

<b>Site ID</b>	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	9/22/2003	11/3/2003	4/27/2004	6/21/2004	8/16/2004	10/18/2004	12/27/2004	3/21/2005
<b>Non Wadable</b>								
<b>Land Use</b>								
<b>% Wetlands</b>								
<b>% Forest</b>								
<b>% Cropland</b>					50			
<b>% Pasture</b>	100	100	100	100	50	100	100	100
<b>% Residential</b>								
<b>% Commercial</b>								
<b>% Industrial</b>								
<b>% Unused abandoned</b>								
<b>% Overgrown shrub and small trees</b>								
<b>% Other</b>								
<b>Other Land Use Note</b>								
<b>Precipitation current</b>	overcast	clear	overcast	clear	clear	overcast	clear	showers
<b>Precipitation recent</b>	clear	clear	showers	clear	clear	overcast	showers	showers
<b>Water Odors</b>	none	none	none	none	none	none	none	none
<b>Water Odors Note</b>								
<b>Stream Width</b>	4.61	4.954	6.39	6.084	4.73	4.616		5.998
<b>Non-Wadable</b>							non-wadable	
<b>Stream Width Note</b>								
<b>Stream Depth</b>	0.1932	0.194	0.298	0.2728	0.2008	0.1728		0.2384
<b>Non-Wadable</b>							non-wadable	
<b>Stream depth note</b>								
<b>Surface Velocity</b>	0.26	0.38	0.71	0.64	0.31	0.21		0.66
<b>Surface Velocity Note</b>								
<b>Stream Flow Volume or Discharge USGS Gaging</b>	0.183	0.2924	1.082	0.846	0.241	0.1312		0.7549
<b>Air Temperature C</b>	19	15	9	16	19	4	-8	3
<b>Air Temperature F</b>								
<b>Water Temperature C</b>	17	13	10	14	19	5	0	2
<b>Water Temperature F</b>								
<b>pH, S. U.</b>	6.1	6.6	6.2	6.7	6.8	6.4	5.7	6.4
<b>Dissolved Oxygen, mg/L</b>	9	10	10	9	9	11	13	12
<b>Specific Conductance</b>	350	250	160	240	310	410	200	270
<b>Nitrate, mg/L</b>	5.2	3.9	5.2	9.7	4.4	3.9	9.7	3.1
<b>Total Phosphate, mg/L</b>	0.86	4.5	3.7	8.8	9.2	7.4	3.6	2.3
<b>Sulfate, mg/L</b>	100	80	50	60	80	150	65	70
<b>Total Alkalinity, mg/L as CaCO3</b>	60	50	40	35	65	75	35	35

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22h**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Water Body Name	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1	Cherry Run #1
Site ID	460	460	460	460	460	460	460	460	460
Monitor Date	5/31/2005	1/16/2006	3/13/2006	5/8/2006	6/12/2006	7/10/2006	8/14/2006	10/9/2006	1/2/2007
River Mile Index	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
Features									
Water Appearance	clear	clear	muddy/cloudy, non-wadable	clear	milky/white, muddy/cloudy	clear	clear	clear	clear
Water Appearance Note			partially frozen, too dangerous for monitors to enter stream						
Soil Odors	non-wadable	other	non-wadable, none	none	none	none	none	none	none
Soil Odors Note									
Sediment Deposits	none	none	none, non-wadable	none	none	sand	none	other	none
Sediment Deposits Note								leaves	
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams		no	no	no	no	no	no	no	no
High Water Mark									
Highwater Estimate									
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom									
% Bedrock									
% Boulder	15	19	5	10	10	10	10	10	
% Cobble	50	30	40	70	60	70	70	60	20
% Gravel	25	40	40	15	25	10	10	20	70
% Sand	5	10	10	4	4	5	9	5	5
% Silt	4		4			4		4	4
% Clay									
% Other									
other note									

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22h**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460	460
<b>Monitor Date</b>	5/31/2005	1/16/2006	3/13/2006	5/8/2006	6/12/2006	7/10/2006	8/14/2006	10/9/2006	1/2/2007
<b>Organic Stream Bottom</b>									
%_Muck-mud									
% Pulpy peat									
% Fibrous peat									
% Detritus							1		
% Logs limbs		1	1						
% Marl									
% Other	1			1	1	1		1	1
<b>Other description</b>	not specified			brown moss	not specified	brown moss		not specified	not specified
<b>Non Wadable</b>			yes				yes		
<b>Land Use</b>									
% Wetlands									
% Forest									
% Cropland									
% Pasture	100	100	100	100	100	100	100	100	100
% Residential									
% Commercial									
% Industrial									
% Unused abandoned									
% Overgrown shrub and small trees									
% Other									
<b>Other Land Use Note</b>									
<b>Precipitation current</b>	clear	clear	overcast	overcast	clear	clear	clear	clear	showers
<b>Precipitation recent</b>	showers	clear	storm	overcast	clear	clear	overcast	clear	overcast
<b>Water Odors</b>	none	none	non-wadable, none	none	none	none	none	none	none
<b>Water Odors Note</b>									
<b>Stream Width</b>	4.664	6.814		4.56	5.106	4.748		4.288	5.608
<b>Non-Wadable</b>			yes				yes		
<b>Stream Width Note</b>			too dangerous for monitors to enter stream						
<b>Stream Depth</b>	0.1824	0.3406		0.1612	0.2132	0.1924		0.1772	0.2536

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22h**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

Site ID	460	460	460	460	460	460	460	460	460
Monitor Date	5/31/2005	1/16/2006	3/13/2006	5/8/2006	6/12/2006	7/10/2006	8/14/2006	10/9/2006	1/2/2007
Non-Wadable			yes				yes		
Stream depth note									
Surface Velocity	0.33	0.8008		0.2586	0.4268	0.225		0.1576	0.578
Surface Velocity Note									
Stream Flow Volume or Discharge	0.2226	1.488		0.152	0.372	0.1644		0.0958	0.6576
USGS Gaging									
Air Temperature C	14	-2	15	12	12	19	17	12	1
Air Temperature F									
Water Temperature C	14	-4	8	13	9	14	17	12	4
Water Temperature F									
pH, S. U.	6.4	6.3	6.7	6.7	6.6	6.8	7.1	6.8	6.3
Dissolved Oxygen, mg/L	9	11	9	10	10	12	9	10	12
Specific Conductance	270	200	220	280	300	390	670	470	230
Nitrate, mg/L	2.6	14.08	10.56	8.8	13.2	9.86	0.88	5.28	2.04
Total Phosphate, mg/L	3.1	6.8	4.8	3.2	10	4.66	0.94	9.3	2.1
Sulfate, mg/L	85	55	70	75	70	75	>200	>200	55
Total Alkalinity, mg/L as CaCO3	70	30	35	10	55	70	125	100	40
Other observations comments				acidity 40; total iron .8	acidity 20; total iron .5		water level too low to measure		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22i**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #1</b>
<b>Site ID</b>	460
<b>Monitor Date</b>	2/26/2007
<b>River Mile Index</b>	3.26
<b>Type of Water Body</b>	stream
<b>Area</b>	15.8
<b>Features</b>	
<b>Water Appearance</b>	clear, non-wadable
<b>Note</b>	
<b>Soil Odors</b>	wadable, none
<b>Soil Odors Note</b>	
<b>Sediment Deposits</b>	wadable
<b>Sediment Deposits Note</b>	
<b>Stream Type</b>	meandering
<b>Dams</b>	no
<b>High Water Mark</b>	
<b>Highwater Estimate</b>	
<b>Stream Bank Cross-Section Shape</b>	rectangular
<b>Stream Bank Erosion</b>	occasional
<b>Bottom</b>	
<b>% Bedrock</b>	
<b>% Boulder</b>	10
<b>% Cobble</b>	60
<b>% Gravel</b>	20
<b>% Sand</b>	5
<b>% Silt</b>	4
<b>% Clay</b>	
<b>% Other</b>	
<b>other note</b>	
<b>Organic Stream Bottom</b>	
<b>% Muck-mud</b>	
<b>% Pulpy peat</b>	
<b>% Fibrous peat</b>	
<b>% Detritus</b>	
<b>% Logs limbs</b>	
<b>% Marl</b>	
<b>% Other</b>	1
<b>Other description</b>	

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 22i**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 460 - Cherry Run #1**  
**(Continued)**

<b>Site ID</b>	460
<b>Monitor Date</b>	2/26/2007
<b>Non Wadable</b>	yes
<b>Land Use</b>	
<b>% Wetlands</b>	
<b>% Forest</b>	
<b>% Cropland</b>	
<b>% Pasture</b>	100
<b>% Residential</b>	
<b>% Commercial</b>	
<b>% Industrial</b>	
<b>% Unused abandoned</b>	
<b>% Overgrown shrub     and small trees</b>	
<b>% Other</b>	
<b>Other Land Use Note</b>	
<b>Precipitation current</b>	rain
<b>Precipitation recent</b>	overcast
<b>Water Odors</b>	wadable,none
<b>Water Odors Note</b>	
<b>Stream Width</b>	
<b>Non-Wadable</b>	yes
<b>Stream Width Note</b>	
<b>Stream Depth</b>	
<b>Non-Wadable</b>	yes
<b>Stream depth note</b>	
<b>Surface Velocity</b>	
<b>Surface Velocity Note</b>	
<b>Stream Flow Volume or Discharge</b>	
<b>USGS Gaging</b>	
<b>Air Temperature C</b>	1
<b>Air Temperature F</b>	
<b>Water Temperature C</b>	
<b>Water Temperature F</b>	
<b>pH, S. U.</b>	6.2
<b>Dissolved Oxygen,     mg/L</b>	14
<b>Specific Conductance</b>	520
<b>Nitrate, mg/L</b>	7.04
<b>Total Phosphate, mg/L</b>	2.7
<b>Sulfate, mg/L</b>	50
<b>Total Alkalinity, mg/L as CaCO3</b>	40

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 23a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1110 - Cherry Run #2**

<b>Water Body Name</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>
<b>Site ID</b>	1110	1110	1110	1110	1110	1110	1110	1110
<b>Monitor Date</b>	6/30/2003	10/6/2003	11/17/2003	2/23/2004	6/28/2004	9/13/2004	10/25/2004	1/3/2005
<b>River Mile Index</b>	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream
<b>Area</b>	1	1	1	1	1	1	1	1
<b>Features</b>								
<b>Water Appearance</b>	clear	clear	clear	clear	clear	clear	clear	clear
<b>Note</b>								
<b>Soil Odors</b>	wadable	wadable	wadable	wadable	wadable		wadable	wadable
<b>Soil Odors Note</b>								
<b>Sediment Deposits</b>	none	none	none	none	none	none	none	none
<b>Sediment Deposits Note</b>								
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>		no						
<b>High Water Mark</b>								
<b>Highwater Estimate</b>								
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
<b>Bottom</b>								
<b>% Bedrock</b>								
<b>% Boulder</b>		10	5	5	15		2	
<b>% Cobble</b>	80	80	65	10	60	75	45	10
<b>% Gravel</b>	15	4	20	70	15	24	45	85
<b>% Sand</b>	5	4	5	5	5		7	4
<b>% Silt</b>				5	4			
<b>% Clay</b>								
<b>% Other</b>								
<b>other note</b>								
<b>Bottom</b>								
<b>%_Muck-mud</b>						1		
<b>% Pulpy peat</b>								
<b>% Fibrous peat</b>								
<b>% Detritus</b>		1	5	5	1			
<b>% Logs limbs</b>		1					1	
<b>% Marl</b>								
<b>% Other</b>								1
<b>Other description</b>								leaves

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 28a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1110 - Chreey Run #2**  
**(Continued)**

Site ID	1110	1110	1110	1110	1110	1110	1110	1110
Monitor Date	6/30/2003	10/6/2003	11/17/2003	2/23/2004	6/28/2004	9/13/2004	10/25/2004	1/3/2005
Non Wadable								
Land Use								
% Wetlands								
% Forest	50			50				
% Cropland	50		100				100	
% Pasture		100		50	50	80		90
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees					50	20		10
% Other								
Other Land Use Note								
Precipitation current	showers	clear	overcast	clear	rain	clear	overcast	rain
Precipitation recent	clear	clear	overcast	clear	clear	clear	showers	overcast
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	4.506	5.514	5.876		6.572	6.892	6.226	7.066
Non-Wadable				non-wadable				
Stream Width Note								
Stream Depth	0.0768	0.1412	0.214		0.0676	0.1212	0.0964	0.1244
Non-Wadable				non-wadable				
Stream depth note								
Surface Velocity	0.38	0.29	0.28		0.47	0.66	0.55	0.63
Surface Velocity Note								
Stream Flow Volume or Discharge	0.105	0.366	0.284		0.1687	0.445	0.2828	0.445
USGS Gaging								
Air Temperature C	21	7	10	-3	14	15	11	12
Air Temperature F								
Water Temperature C	19	8	9	0	15	15	11	8
Water Temperature F								
pH, S. U.	6	6.5	6.5	6.3	6.3	6.4	6.3	6
Dissolved Oxygen, mg/L	7	11	10	12	8	9	9	10
Specific Conductance	430	350	250	210	380	260	290	260
Nitrate, mg/L	4.6	7	7.9	5.3	11	10	3.9	2.6
Total Phosphate, mg/L	1.4	0.62	0.94	0.64	6.4	8.6	8.8	16.8
Sulfate, mg/L								
Total Alkalinity, mg/L as CaCO3	80	50	45	25	60	45	55	45

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 28b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 110 - Chreey Run #2**  
**(Continued)**

Water Body Name	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2	Cherry Run #2
Site ID	1110	1110	1110	1110	1110	1110	1110	1110
Monitor Date	4/11/2005	5/5/2005	6/6/2005	8/15/2005	1/23/2006	3/20/2006	5/15/2006	6/19/2006
River Mile Index	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	muddy/cloudy	clear	muddy/cloudy	muddy/cloudy
Water Appearance Note								
Soil Odors	non-wadable	non-wadable	non-wadable	sewage	none	none	none	none
Soil Odors Note								
Sediment Deposits	none	sludge	other	sludge	none	none	none	other
Sediment Deposits Note			brown moss					brown moss
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams					no	no	no	no
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>								
% Bedrock		10						
% Boulder	5	60	5	10	5	5	10	10
% Cobble	40	20	60	40	50	40	60	50
% Gravel	40	5	25	30	25	40	20	30
% Sand	14		5		10		9	5
% Silt			4		9	10		4
% Clay				10		4		
% Other								
other note								
<b>Organic Stream Bottom</b>								
%_Muck-mud			1	10				
% Pulpy peat								
% Fibrous peat								
% Detritus								
% Logs limbs					1	1		
% Marl	1							
% Other		5					1	1
Other description		greyish metal					not specified	brown moss

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 28b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 110 - Chreey Run #2**  
**(Continued)**

Site ID	1110	1110	1110	1110	1110	1110	1110	1110
Monitor Date	4/11/2005	5/5/2005	6/6/2005	8/15/2005	1/23/2006	3/20/2006	5/15/2006	6/19/2006
Non Wadable					yes			
Land Use								
% Wetlands								
% Forest				50				
% Cropland	50	50	50	25	50		50	
% Pasture		50	50	25	50	50	50	50
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees	50					50		50
% Other								
Other Land Use Note								
Precipitation current	clear	clear	overcast	overcast	rain	clear	rain	rain
Precipitation recent	clear	storm	clear	showers	rain	clear	overcast	clear
Water Odors	none	none	none	spicy none	none	none	other	none
Water Odors Note							manure	
Stream Width	2.236	6.596	6.202			7.08	6.946	3.682
Non-Wadable				non-wadable	yes			
Stream Width Note					water too high for volunteers to enter stream			
Stream Depth	0.1552	0.111	0.1076			0.15	0.192	0.1516
Non-Wadable				non-wadable	yes			
Stream depth note								
Surface Velocity	0.49	0.71	0.19			0.4622	0.47	0.2666
Surface Velocity Note								
Stream Flow Volume or Discharge	0.4391	0.413	0.1018			0.3926	0.501	0.119
USGS Gaging								
Air Temperature C	16	8	21	20	2		9	20
Air Temperature F								
Water Temperature C	10	10	19	22	4	2	12	19
Water Temperature F								
pH, S. U.	5.9	6.2	6.3	6.5	6.9	6.4	6.5	6.5
Dissolved Oxygen, mg/L	11	10	7	4	11	12	8	6
Specific Conductance	230	230	750	1190	210	230	270	530
Nitrate, mg/L	6.2	3.1	2.6	0.44	9.68	8.26	7.04	8.8
Total Phosphate, mg/L								
Sulfate, mg/L	70	70	150	0	60	60	90	200
Total Alkalinity, mg/L as CaCO3	45	45	75	125	35	35	65	95

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 28c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 110 - Chreey Run #2**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>	<b>Cherry Run #2</b>
<b>Site ID</b>	1110	1110	1110	1110	1110
<b>Monitor Date</b>	7/17/2006	8/21/2006	10/23/2006	1/8/2007	3/5/2007
<b>River Mile Index</b>	4.1	4.1	4.1	4.1	4.1
<b>Type of Water Body</b>	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1
<b>Features</b>					
<b>Water Appearance</b>	clear	other	clear	muddy/cloudy, non-wadable	clear
<b>Water Appearance Note</b>		gray-black		water too high	
<b>Soil Odors</b>	none	none	none	non-wadable,none	none
<b>Soil Odors Note</b>					
<b>Sediment Deposits</b>	none	other	none	none,non-wadable	none
<b>Sediment Deposits Note</b>		brown moss			
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>	no	no	no	no	no
<b>High Water Mark</b>					
<b>Highwater Estimate</b>					
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>					
<b>% Bedrock</b>					
<b>% Boulder</b>	10	20	10	5	5
<b>% Cobble</b>	60	60	60	60	65
<b>% Gravel</b>	20	10	20	19	20
<b>% Sand</b>	5	9	5	10	5
<b>% Silt</b>	4		4	5	4
<b>% Clay</b>					
<b>% Other</b>					
<b>other note</b>					
<b>Organic Stream Bottom</b>					
<b>% _Muck-mud</b>					
<b>% Pulpy peat</b>					
<b>% Fibrous peat</b>					
<b>% Detritus</b>					
<b>% Logs limbs</b>					
<b>% Marl</b>					
<b>% Other</b>	1	1	1	1	1
<b>Other description</b>	not specified	not specified	leaves		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 28c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 110 - Chreey Run #2**  
**(Continued)**

<b>Site ID</b>	1110	1110	1110	1110	1110
<b>Monitor Date</b>	7/17/2006	8/21/2006	10/23/2006	1/8/2007	3/5/2007
<b>Non Wadable</b>				yes	
<b>Land Use</b>					
<b>% Wetlands</b>					
<b>% Forest</b>					
<b>% Cropland</b>	50	50	50	50	50
<b>% Pasture</b>	50	50		50	50
<b>% Residential</b>					
<b>% Commercial</b>					
<b>% Industrial</b>					
<b>% Unused abandoned</b>					
<b>% Overgrown shrub and small trees</b>			50		
<b>% Other</b>					
<b>Other Land Use Note</b>					
<b>Precipitation current</b>	clear	overcast	showers	rain	showers
<b>Precipitation recent</b>	clear	overcast	overcast	rain	showers
<b>Water Odors</b>	none	other	other	non-wadable,none	none
<b>Water Odors Note</b>		manure	manure		
<b>Stream Width</b>	4.326	3.422	6.98		5.813
<b>Non-Wadable</b>				yes	
<b>Stream Width Note</b>				too high	
<b>Stream Depth</b>	0.2916	0.1204	0.24		0.27
<b>Non-Wadable</b>				yes	
<b>Stream depth note</b>					
<b>Surface Velocity</b>	0.2162	0.1428	0.6585		0.826
<b>Surface Velocity Note</b>					
<b>Stream Flow Volume or Discharge</b>	0.2181	0.097	0.8825		1.037
<b>USGS Gaging</b>					
<b>Air Temperature C</b>	23	17	5	4	-2
<b>Air Temperature F</b>					
<b>Water Temperature C</b>	24	19	9	7	2
<b>Water Temperature F</b>					
<b>pH, S. U.</b>	6.7	6.6	6.6	6.2	5.8
<b>Dissolved Oxygen, mg/L</b>	8	7	11	11	13
<b>Specific Conductance</b>	360	710	220	140	270
<b>Nitrate, mg/L</b>	7.92	0.88	21.12	5.72	15.84
<b>Total Phosphate, mg/L</b>					
<b>Sulfate, mg/L</b>	8.33	14	4	2.4	0.7
<b>Total Alkalinity, mg/L as CaCO3</b>	80	120	40	35	90

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 24a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**

<b>Water Body Name</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>
<b>Site ID</b>	1118	1118	1118	1118	1118	1118	1118	1118
<b>Monitor Date</b>	7/21/2003	9/22/2003	10/6/2003	11/17/2003	3/1/2004	5/3/2004	6/28/2004	9/13/2004
<b>River Mile Index</b>	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream
<b>Area</b>	1	1	1	1	1	1	1	1
<b>Features</b>								
<b>Water Appearance</b>	clear	clear	clear	clear	clear	clear	clear	clear
<b>Note</b>								
<b>Soil Odors</b>	wadable	wadable	wadable	wadable	wadable	wadable	wadable	wadable
<b>Soil Odors Note</b>								
<b>Sediment Deposits</b>	none	none	none	none	none	none	none	none
<b>Sediment Deposits Note</b>								
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>	no							
<b>High Water Mark</b>								
<b>Highwater Estimate</b>								
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
<b>Bottom</b>								
<b>% Bedrock</b>								
<b>% Boulder</b>	10	5	10	5	10	10	25	20
<b>% Cobble</b>	80	70	75	60	70	60	60	70
<b>% Gravel</b>	5	15	5	25	10	20	10	5
<b>% Sand</b>	5	5	5	5	5	5	4	4
<b>% Silt</b>		5	4	4		4		
<b>% Clay</b>								
<b>% Other</b>								
<b>other note</b>								
<b>Bottom</b>								
<b>%_Muck-mud</b>						1		
<b>% Pulpy peat</b>								
<b>% Fibrous peat</b>								
<b>% Detritus</b>			1	1	5		1	
<b>% Logs limbs</b>								1
<b>% Marl</b>								
<b>% Other</b>								
<b>Other description</b>								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

Site ID	1118	1118	1118	1118	1118	1118	1118	1118
Monitor Date	7/21/2003	9/22/2003	10/6/2003	11/17/2003	3/1/2004	5/3/2004	6/28/2004	9/13/2004
Non Wadable								
Land Use								
% Wetlands								
% Forest	100	100		50	100	100	50	50
% Cropland								
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees			100	50			50	50
% Other								
Other Land Use Note								
Precipitation current	clear	clear	clear	overcast	clear	clear	rain	clear
Precipitation recent	clear	storm	clear	overcast	clear	storm	clear	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	5.994	6.016	5.808	5.138	6.038	5.59	5.1	5.7
Non-Wadable								
Stream Width Note								
Stream Depth	0.0884	0.195	0.1444	0.171	0.2912	0.158	0.0908	0.1516
Non-Wadable								
Stream depth note								
Surface Velocity	0.41	0.84	0.6	0.41	0.88	0.45	0.46	0.59
Surface Velocity Note								
Stream Flow Volume or Discharge	0.172	0.793	0.402	0.29	1.3	0.321	0.1688	0.41
USGS Gaging								
Air Temperature C	23	20	9	10	3	10	14	17
Air Temperature F								
Water Temperature C	18	19	8	9	3	10	15	15
Water Temperature F								
pH, S. U.	6.5	4.9	6.5	6.3	6.7	6.1	5.8	6.4
Dissolved Oxygen, mg/L	8	8	11	11	11	10	9	9
Specific Conductance	250	190	240	210	170	190	250	200
Nitrate, mg/L	10	15	1.7	10	11	2.2	3.9	10
Total Phosphate, mg/L								
Sulfate, mg/L	1.88	3.1	0.58	1.92	5.76	6.6	4	9.6
Total Alkalinity, mg/L as CaCO3	50	46	40	40	25	40	40	40

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

Water Body Name	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3	Cherry Run #3
Site ID	1118	1118	1118	1118	1118	1118	1118	1118
Monitor Date	10/25/2004	1/10/2005	4/18/2005	6/6/2005	8/15/2005	1/23/2006	3/20/2006	5/22/2006
River Mile Index	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	clear	dy	clear	clear
Note								
Soil Odors	non-wadable	wadable	wadable	non-wadable	wadable	none	none	none
Soil Odors Note								
Sediment Deposits	none	none	none	other	wadable	none	none	none
Sediment Deposits Note				brown moss				
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams						no	no	no
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Bottom								
% Bedrock								
% Boulder	20	10	20	5	25	10	20	
% Cobble	60	70	60	65	55	60	60	
% Gravel	15	10	15	20	10	10	15	
% Sand	4	5	4	5	5	10	4	
% Silt		4		4	4	9		
% Clay								
% Other								50
other note								
Organic Stream Bottom								
% Muck-mud				1				
% Pulpy peat								
% Fibrous peat								
% Detritus					1			
% Logs limbs	1	1	1			1		
% Marl								
% Other							1	50
Other description								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 29b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

Site ID	1118	1118	1118	1118	1118	1118	1118	1118
Monitor Date	10/25/2004	1/10/2005	4/18/2005	6/6/2005	8/15/2005	1/23/2006	3/20/2006	5/22/2006
Non Wadable						yes		
Land Use								
% Wetlands								
% Forest	80	70	50	60	100	100	100	
% Cropland								
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees	20	30	50	40				
% Other								100
Other Land Use Note								
Precipitation current	overcast	overcast	clear	overcast	overcast	rain	clear	overcast
Precipitation recent	showers	overcast	clear	clear	showers	rain	clear	showers
Water Odors	none	none	none	none	spicy none	none	none	none
Water Odors Note								
Stream Width	5.36	7.03	6.04	5.2			5.606	6.752
Non-Wadable					non-wadable	yes		
Stream Width Note						too high for safe entry		
Stream Depth	0.112	0.25	0.0988	0.082			0.1464	0.1732
Non-Wadable					non-wadable	yes		
Stream depth note								
Surface Velocity	0.51	0.86	0.49	0.19			0.5135	0.714
Surface Velocity Note								
Stream Flow Volume or Discharge USGS Gaging	0.243	1.215	0.2327	0.0642			0.337	0.668
Air Temperature C	11	5	13	20	20	2		7
Air Temperature F								
Water Temperature C	10	6	10	18	22	4	2	9
Water Temperature F								
pH, S. U.	6.2	6	6.6	6.7	6.7	6.7	6.3	6.8
Dissolved Oxygen, mg/L	10	11	11	8	8	11	12	111
Specific Conductance	200	130	190	410	360	270	220	170
Nitrate, mg/L	7	8.8	4.2	4.4	2.2		10.12	20.24
Total Phosphate, mg/L	3.4	3.1	4.5	3.6	2.8	1.8	2.7	0.56
Sulfate, mg/L	50	55	50	50	55	55	<50	<50
Total Alkalinity, mg/L as CaCO3	50	25	40	50	60	30	30	40

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>	<b>Cherry Run #3</b>
<b>Site ID</b>	1118	1118	1118	1118	1118	1118
<b>Monitor Date</b>	6/19/2006	7/17/2006	8/21/2006	10/30/2006	1/8/2007	3/12/2007
<b>River Mile Index</b>	4.3	4.3	4.3	4.3	4.3	4.3
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1	1
<b>Features</b>						
<b>Water Appearance</b>	muddy/cloudy	clear	clear,non-wadable	clear	muddy/cloudy ,non-wadable	clear
<b>Water Appearance Note</b>						
<b>Soil Odors</b>	none	none	non-wadable,none	none	non-wadable,none	none
<b>Soil Odors Note</b>						
<b>Sediment Deposits</b>	none	none	none,non-wadable	other	none,non-wadable	none
<b>Sediment Deposits Note</b>				leaves		
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>	no	no	no	no	no	no
<b>High Water Mark</b>						
<b>Highwater Estimate</b>						
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>						
<b>% Bedrock</b>						
<b>% Boulder</b>	20	20	20	20	10	15
<b>% Cobble</b>	55	50	60	60	70	60
<b>% Gravel</b>	5	20	10	10	15	15
<b>% Sand</b>	5	5	5	5	4	5
<b>% Silt</b>	3	4	4	4		4
<b>% Clay</b>						
<b>% Other</b>						
<b>other note</b>						
<b>Organic Stream Bottom</b>						
<b>%_Muck-mud</b>						
<b>% Pulpy peat</b>						
<b>% Fibrous peat</b>						
<b>% Detritus</b>						
<b>% Logs limbs</b>						
<b>% Marl</b>						
<b>% Other</b>	2	1	1	1	1	1

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

Site ID	1118	1118	1118	1118	1118	1118
Monitor Date	6/19/2006	7/17/2006	8/21/2006	10/30/2006	1/8/2007	3/12/2007
Other description	sludge	not specified	not specified	leaves		not specified
Non Wadable			yes		yes	
Land Use						
% Wetlands					100	
% Forest	100	100	100	100		100
% Cropland						
% Pasture						
% Residential						
% Commercial						
% Industrial						
% Unused abandoned						
% Overgrown shrub and small trees						
% Other						
Other Land Use Note						
Precipitation current	clear	clear	overcast	overcast	showers	overcast
Precipitation recent	clear	clear	overcast	clear	rain	clear
Water Odors	none	none	non-wadable,none	none	non-wadable,none	none
Water Odors Note						
Stream Width	5.49	6.204		6.848		6.186
Non-Wadable			yes		yes	
Stream Width Note			to low to measure			
Stream Depth	0.1388	0.0844		0.2164		0.1872
Non-Wadable			yes		yes	
Stream depth note			too low to measure			
Surface Velocity	0.1528	0.3798		0.9413		0.6572
Surface Velocity Note						
Stream Flow Volume or Discharge	0.0931	0.159		1.116		0.6089
USGS Gaging						
Air Temperature C	19	23	16	3	3	-2
Air Temperature F						
Water Temperature C	18	24	18	6	7	26
Water Temperature F						
pH, S. U.	6	6.5	7	6.5	6.3	6.4
Dissolved Oxygen, mg/L	8	9	9	12	11	13

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1118 - Cherry Run #3**  
**(Continued)**

Site ID	1118	1118	1118	1118	1118	1118
Monitor Date	6/19/2006	7/17/2006	8/21/2006	10/30/2006	1/8/2007	3/12/2007
Specific Conductance	310	270	300	170	140	260
Nitrate, mg/L	4.4	12.32	0.88	23.76	7.04	10.12
Total Phosphate, mg/L	4	1.66	1.66	1.66	1.4	0.4
Sulfate, mg/L	<50	<50	<50	<50	<50	<50
Total Alkalinity, mg/L as CaCO <sub>3</sub>	70	60	75	40	35	30
Other observations comments	acidity 40; total iron .5		monitors report numerous dead crayfish			

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 25a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119 - Cherry Run # 4**

Water Body Name	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4
Site ID	1119	1119	1119	1119	1119	1119	1119	1119
Monitor Date	7/21/2003	7/28/2003	10/13/2003	11/24/2003	3/8/2004	5/10/2004	7/6/2004	10/4/2004
River Mile Index	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	clear	clear
Water Appearance Note								
Soil Odors	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note								
Sediment Deposits	none	none	none	none	none	none	none	none
Sediment Deposits Note								
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering pool/riffle	meandering	meandering
Dams								
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	stabilized	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom								
% Bedrock								
% Boulder	10		5	10	5	10	10	5
% Cobble	75	60	85	60	60	65	75	74
% Gravel	10	20	4	15	10	10	10	10
% Sand	5	10	4	10	10	10	4	10
% Silt		10			10	4		
% Clay								
% Other								
other note								
Bottom								
% Muck-mud								
% Pulpy peat								
% Fibrous peat								
% Detritus			1	5	5	1	1	
% Logs limbs			1					1
% Marl								
% Other								
Other description								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 30a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119- Cherry Run #4**  
**(Continued)**

Site ID	1119	1119	1119	1119	1119	1119	1119	1119
Monitor Date	7/21/2003	7/28/2003	10/13/2003	11/24/2003	3/8/2004	5/10/2004	7/6/2004	10/4/2004
Non Wadable Land Use								
% Wetlands								
% Forest								
% Cropland	100	100	100	50	50	90	50	
% Pasture								50
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees				50	50	10	50	50
% Other								
Other Land Use Note								
Precipitation current	clear	clear	clear	clear	showers	clear	clear	clear
Precipitation recent	clear	storm	clear	clear	showers	clear	clear	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	3.01	4.516	2.26	2.67	5.672	2.17	2.25	2.806
Non-Wadable								
Stream Width Note								
Stream Depth	0.0704	0.1452	0.096	0.157	0.2476	0.1112	0.1156	0.076
Non-Wadable								
Stream depth note								
Surface Velocity	0.34	0.62	0.38	0.62	0.32	0.45	0.41	0.34
Surface Velocity Note								
Stream Flow Volume or Discharge	0.0619	0.329	0.067	0.205	0.3586	0.0872	0.0862	0.0579
USGS Gaging								
Air Temperature C	23	22	9	10	2	18	21	12
Air Temperature F								
Water Temperature C	18	20	11	9	4	16	19	10
Water Temperature F								
pH, S. U.	5.9	6.3	6	6.5	6.2	6.6	6.5	6.5
Dissolved Oxygen, mg/L	8	8	9	10	11	9	9	10
Specific Conductance	290	220	300	200	250	400	340	260
Nitrate, mg/L	8.8	16	10	11	8.4	5.2	1.7	2.6
Total Phosphate, mg/L	2.72	3.2	0.94	0.32	0.24	4.4	7	7
Sulfate, mg/L	50	50	50	52	50	50	50	50
Total Alkalinity, mg/L as CaCO3	60	50	55	45	30	60	65	65

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 30b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119 - Cherry Run #4**  
**(Continued)**

Water Body Name	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4	Cherry Run #4
Site ID	1119	1119	1119	1119	1119	1119	1119	1119
Monitor Date	11/1/2004	3/7/2005	5/2/2005	6/13/2005	9/6/2005	1/30/2006	4/3/2006	5/20/2006
River Mile Index	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	clear	clear
Water Appearance Note								
Soil Odors	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	none	none	none
Soil Odors Note								
Sediment Deposits	none	none	none	other	none	none	non-wadable	none
Sediment Deposits Note				brown moss				
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams						no	no	no
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom								
% Bedrock								10
% Boulder	10	5	10	10	5	10	10	60
% Cobble	70	60	65	60	40	70	70	20
% Gravel	15	25	20	20	40	10	10	5
% Sand	4	5	4	5	5	9	5	4
% Silt				4	9		4	
% Clay								
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud						1	1	
% Pulpy peat								
% Fibrous peat								
% Detritus								
% Logs limbs				1				
% Marl								
% Other	1	5	1		1			1
Other description	leaves	not specified	moss		not specified			brown moss

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 30b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119 - Cherry Run #4**  
**(Continued)**

Site ID	1119	1119	1119	1119	1119	1119	1119	1119
Monitor Date	11/1/2004	3/7/2005	5/2/2005	6/13/2005	9/6/2005	1/30/2006	4/3/2006	5/20/2006
Non Wadable								
Land Use								
% Wetlands								
% Forest								
% Cropland	50	50	50	50	50	100	70	100
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned							30	
% Overgrown shrub and small trees	50	50	50	50	50			
% Other								
Other Land Use Note								
Precipitation current	clear	clear	showers	clear	clear	overcast	clear	clear
Precipitation recent	clear	clear	showers	clear	clear	showers	showers	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	2.342	3.048	2.544	2.758		2.734	2.408	2.534
Non-Wadable					non-wadable			
Stream Width Note								
Stream Depth	0.1076	0.1952	0.1084	0.1564		0.2016	0.0976	0.1348
Non-Wadable					non-wadable			
Stream depth note								
Surface Velocity	0.34	0.65	0.52	0.19		0.5312	0.3042	0.4467
Surface Velocity Note								
Stream Flow Volume or Discharge	0.0693	0.307	0.1153	0.0681		0.234	0.0571	0.122
USGS Gaging								
Air Temperature C	10	11	8	24	16		16	20
Air Temperature F								
Water Temperature C	9	3	8	20	15	4	13	17
Water Temperature F								
pH, S. U.	6.3	6.7	6.5	6.4	6.8	6.5	6.6	6.6
Dissolved Oxygen, mg/L	10	12	10	8	8	11	11	9
Specific Conductance	270	500	300	370	420	520	370	250
Nitrate, mg/L	6.2	5.3	3.9	12	1.9	11.88	10.12	15.84
Total Phosphate, mg/L	8.4	9.6	12.4	8.6	3.2	3.8	14	3.2
Sulfate, mg/L	50	50	50	50	50	<50	50	<50
Total Alkalinity, mg/L as CaCO3	60	40	55	60	20	45	50	40
Other observations comments								total iron .2

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 30c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119 - Cherry Run #4**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #4</b>	<b>Cherry Run #4</b>	<b>Cherry Run #4</b>	<b>Cherry Run #4</b>	<b>Cherry Run #4</b>	<b>Cherry Run #4</b>
<b>Site ID</b>	1119	1119	1119	1119	1119	1119
<b>Monitor Date</b>	6/26/2006	7/24/2006	9/11/2006	11/13/2006	1/15/2007	3/19/2007
<b>River Mile Index</b>	5.1	5.1	5.1	5.1	5.1	5.1
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1	1
<b>Features</b>						
<b>Water Appearance</b>	muddy/cloudy	clear	clear	clear	muddy/cloudy,non-wadable	clear
<b>Water Appearance Note</b>						
<b>Soil Odors</b>	none	none	none	none	non-wadable,none	none
<b>Soil Odors Note</b>						
<b>Sediment Deposits</b>	none	none	none	none	none,non-wadable	none
<b>Sediment Deposits Note</b>						
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>	no	no	no	no	no	no
<b>High Water Mark</b>						
<b>Highwater Estimate</b>						
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>						
<b>% Bedrock</b>						
<b>% Boulder</b>	10	10	10	15	10	5
<b>% Cobble</b>	60	60	80	70	70	75
<b>% Gravel</b>	15	25	5	10	15	15
<b>% Sand</b>	10	4	4	4	4	4
<b>% Silt</b>	4					
<b>% Clay</b>						
<b>% Other</b>						
<b>other note</b>						
<b>Organic Stream Bottom</b>						
<b>% _Muck-mud</b>						
<b>% Pulpy peat</b>						
<b>% Fibrous peat</b>						
<b>% Detritus</b>						
<b>% Logs limbs</b>						
<b>% Marl</b>						
<b>% Other</b>	1	1	1	1	1	1
<b>Other description</b>	not specified	not specified	not specified	leaves		not specified

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 30c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1119 - Cherry Run #4**  
**(Continued)**

Site ID	1119	1119	1119	1119	1119	1119
Monitor Date	6/26/2006	7/24/2006	9/11/2006	11/13/2006	1/15/2007	3/19/2007
Non Wadable					yes	
Land Use						
% Wetlands						
% Forest						
% Cropland	50	80	100	50	100	100
% Pasture						
% Residential						
% Commercial						
% Industrial						
% Unused abandoned						
% Overgrown shrub and small trees	50	20		50		
% Other						
Other Land Use Note						
Precipitation current	overcast	clear	overcast	rain	rain	clear
Precipitation recent	rain	showers	overcast	overcast	rain	overcast
Water Odors	none	none	none	none	non-wadable,none	none
Water Odors Note						
Stream Width	2.784	2.46	2.544	2.662		2.658
Non-Wadable					yes	
Stream Width Note						
Stream Depth	0.2004	0.098	0.1456	0.2036		0.2274
Non-Wadable					yes	
Stream depth note						
Surface Velocity	0.6048	0.2766	0.284	0.7536		0.6732
Surface Velocity Note						
Stream Flow Volume or Discharge	0.2699	0.0533	0.0841	0.327		0.3255
USGS Gaging						
Air Temperature C	22	19	16	4	11	-5
Air Temperature F						
Water Temperature C	18	18	11	8	8	
Water Temperature F						
pH, S. U.	6.5	6.9	6.8	6.3	6.5	7.1
Dissolved Oxygen, mg/L	9	9	10	12	11	13
Specific Conductance	310	320	320	220	180	460
Nitrate, mg/L	13.2	6.16	14.96	10.12	12.32	10.56
Total Phosphate, mg/L	7	3.33	11.33	3.66	1.2	3.1
Sulfate, mg/L	<50	<50	<50	<50	<50	<500
Total Alkalinity, mg/L as CaCO3	65	70	75	50	40	40

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 26a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1120 - Cherry Run #5**

Water Body Name	Cherry Run #5	Cherry Run #5	Cherry Run #5	Cherry Run #5	Cherry Run #5	Cherry Run #5	Cherry Run #5
Site ID	1120	1120	1120	1120	1120	1120	1120
Monitor Date	8/11/2003	10/13/2003	11/24/2003	3/15/2004	5/10/2004	7/6/2004	10/4/2004
River Mile Index	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Type of Water Body	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1
Features							
Water Appearance	clear	clear	clear	clear	clear	clear	clear
Water Appearance Note							
Soil Odors	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note							
Sediment Deposits	none	none	none	none	none	none	none
Sediment Deposits Note							
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams							
High Water Mark							
Highwater Estimate							
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom							
% Bedrock							
% Boulder	5	5	10	5	10	20	20
% Cobble	55	85	65	45	60	70	65
% Gravel	30	5	15	40	20	5	10
% Sand	5	4	5	5	5	4	4
% Silt	5				4		
% Clay							
% Other							
other note							
Organic Stream Bottom							
% Muck-mud							
% Pulpy peat							
% Fibrous peat							
% Detritus		1	5	5	1	1	
% Logs limbs							1
% Marl							
% Other							
Other description							

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1120 - Cherry Run #5**  
**(Continued)**

<b>Site ID</b>	1120	1120	1120	1120	1120	1120	1120
<b>Monitor Date</b>	8/11/2003	10/13/2003	11/24/2003	3/15/2004	5/10/2004	7/6/2004	10/4/2004
<b>Non Wadable</b>							
<b>Land Use</b>							
<b>% Wetlands</b>							
<b>% Forest</b>	40						
<b>% Cropland</b>							
<b>% Pasture</b>							
<b>% Residential</b>		50		20	50	50	80
<b>% Commercial</b>							
<b>% Industrial</b>							
<b>% Unused abandoned</b>			100				
<b>% Overgrown shrub and small trees</b>	60	50		80	50	50	20
<b>% Other</b>							
<b>Other Land Use Note</b>							
<b>Precipitation current</b>	overcast	clear	clear	clear	clear	clear	clear
<b>Precipitation recent</b>	clear	clear	clear	showers	clear	clear	clear
<b>Water Odors</b>	none	none	none	none	none	none	none
<b>Water Odors Note</b>							
<b>Stream Width</b>	2.366	2.42	2.65	2.84	2.146	2.65	2.358
<b>Non-Wadable</b>							
<b>Stream Width Note</b>							
<b>Stream Depth</b>	0.106	0.101	0.165	0.1336	0.108	0.1124	0.0972
<b>Non-Wadable</b>							
<b>Stream depth note</b>							
<b>Surface Velocity</b>	0.3	0.26	0.61	0.42	0.27	0.32	0.31
<b>Surface Velocity Note</b>							
<b>Stream Flow Volume or Discharge</b>	0.061	0.052	0.214	0.1282	0.055	0.0769	0.0567
<b>USGS Gaging</b>							
<b>Air Temperature C</b>	20	13	12	3	19	19	12
<b>Air Temperature F</b>							
<b>Water Temperature C</b>	19	11	10	4	16	19	10
<b>Water Temperature F</b>							
<b>pH, S. U.</b>	5.5	6.2	6.2	6.6	6.3	6.5	6.5
<b>Dissolved Oxygen, mg/L</b>	7	9	11	11	9	8	10
<b>Specific Conductance</b>	290	300	220	480	380	360	290
<b>Nitrate, mg/L</b>	5.2	7	10	1.8	3.9	5.8	3.9
<b>Total Phosphate, mg/L</b>	3.2	0.56	0.32	1.36	2.8	4.6	2.7
<b>Sulfate, mg/L</b>	50	50	50	50	50	50	50
<b>Total Alkalinity, mg/L as CaCO3</b>	60	55	40	35	65	65	65

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31b**

**Summary of Data From The Pennsylvania Environment Corps (PaSEC)  
Stream Description And Water Quality Data For Cherry Run  
Site ID 1120 - Cherry Run #5**

<b>Water Body Name</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>
<b>Site ID</b>	1120	1120	1120	1120	1120	1120	1120	1120
<b>Monitor Date</b>	11/1/2004	3/7/2005	5/9/2005	6/13/2005	9/6/2005	1/30/2006	4/24/2006	5/30/2006
<b>River Mile Index</b>	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1	1	1	1
<b>Features</b>								
<b>Water Appearance</b>	clear	clear	clear	clear	clear	clear	muddy/ cloudy	clear
<b>Water Appearance Note</b>								
<b>Soil Odors</b>	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	none	none	none
<b>Soil Odors Note</b>								
<b>Sediment Deposits</b>	none	none	none	none	none	none	none	other
<b>Sediment Deposits Note</b>								brown moss
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>						no	no	no
<b>High Water Mark</b>								
<b>Highwater Estimate</b>								
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>								
<b>% Bedrock</b>								
<b>% Boulder</b>	20	40	15	10	25	15	20	10
<b>% Cobble</b>	40	40	5	50	50	60	60	60
<b>% Gravel</b>	25	10	4	25	20	15	10	10
<b>% Sand</b>	10	5	4	10	4	5	9	15
<b>% Silt</b>	3		30	4		4		4
<b>% Clay</b>								
<b>% Other</b>								
<b>other note</b>								
<b>Organic Stream Bottom</b>								
<b>% Muck-mud</b>								
<b>% Pulpy peat</b>								
<b>% Fibrous peat</b>								
<b>% Detritus</b>								
<b>% Logs limbs</b>			1	1		1		
<b>% Marl</b>								
<b>% Other</b>	2	5			1		1	1
<b>Other description</b>	leaves	not specified			not specified		leaves	brown moss

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31b**

**Summary of Data From The Pennsylvania Environment Corps (PaSEC)  
Stream Description And Water Quality Data For Cherry Run  
Site ID 1120 - Cherry Run #5**

Site ID	1120	1120	1120 (Continued)	1120	1120	1120	1120	1120
Monitor Date	11/1/2004	3/7/2005	5/9/2005	6/13/2005	9/6/2005	1/30/2006	4/24/2006	5/30/2006
Non Wadable								
Land Use								
% Wetlands								
% Forest		50						
% Cropland								
% Pasture								
% Residential	50		80	50	50	100	50	
% Commercial								
% Industrial								
% Unused abandoned			20					
% Overgrown shrub and small trees	50	50		50	50		50	100
% Other								
Other Land Use Note								
Precipitation current	clear	clear	clear	clear	clear	clear	showers	clear
Precipitation recent	clear	clear	clear	clear	clear	showers	showers	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	2.8	3.956	3.236	3.478		3.656	3.434	2.974
Non-Wadable					non-wadable			
Stream Width Note								
Stream Depth	0.0712	0.1612	0.112	0.1564		0.218	0.2596	.
Non-Wadable					non-wadable			
Stream depth note								
Surface Velocity	0.36	0.53	0.19	0.18		0.4984	1.1608	
Surface Velocity Note								
Stream Flow Volume or Discharge	0.0577	0.27	0.0557	0.0775		0.318	0.8278	
USGS Gaging								
Air Temperature C	10	12	14	26	16		14	
Air Temperature F								
Water Temperature C	9	3	11	20	17	4	11	
Water Temperature F								
pH, S. U.	6.3	6.2	6.8	6.5	6.8	6.7	6.6	
Dissolved Oxygen, mg/L	10	12	9	8	5	11	10	
Specific Conductance	250	440	280	380	500	530	260	
Nitrate, mg/L	4.8	6.6	2.6	11	0.66	13.2	12.32	
Total Phosphate, mg/L	4.2	7.2	16.8	3.4	2.3	2.8	14.4	
Sulfate, mg/L	50	60	50	50	50	<50	<50	
Total Alkalinity, mg/L as CaCO3	65	40	60	65	95	40	45	

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID1120 - Cherry Run #5**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>	<b>Cherry Run #5</b>
<b>Site ID</b>	1120	1120	1120	1120	1120
<b>Monitor Date</b>	6/26/2006	9/18/2006	11/13/2006	1/15/2007	3/26/2007
<b>River Mile Index</b>	5.9	5.9	5.9	5.9	5.9
<b>Type of Water Body</b>	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1
<b>Features</b>					
<b>Water Appearance</b>	muddy/cloudy	clear	clear	muddy/cloudy,non-	clear
<b>Water Appearance Note</b>					
<b>Soil Odors</b>	none	none	none	non-wadable,non	none
<b>Soil Odors Note</b>					
<b>Sediment Deposits</b>	none	none	none	none,non-wadable	none
<b>Sediment Deposits Note</b>					
<b>Stream Type</b>	meandering	meandering	meandering	meandering	meandering
<b>Dams</b>	no	no	no	no	no
<b>High Water Mark</b>					
<b>Highwater Estimate</b>					
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>					
<b>% Bedrock</b>					
<b>% Boulder</b>	25	15	25	15	10
<b>% Cobble</b>	50	70	60	60	65
<b>% Gravel</b>	15	10	10	15	15
<b>% Sand</b>	5	4	4	5	5
<b>% Silt</b>	4			4	4
<b>% Clay</b>					
<b>% Other</b>					
<b>other note</b>					
<b>Organic Stream Bottom</b>					
<b>% Muck-mud</b>					
<b>% Pulpy peat</b>					
<b>% Fibrous peat</b>					
<b>% Detritus</b>					1
<b>% Logs limbs</b>					
<b>% Marl</b>					
<b>% Other</b>	1	1	1	1	
<b>Other description</b>	not specified	leaves	leaves		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID1120 - Cherry Run #5**  
**(Continued)**

<b>Non Wadable</b>				yes	
<b>Land Use</b>					
<b>% Wetlands</b>					
<b>% Forest</b>					
<b>% Cropland</b>					
<b>% Pasture</b>					
<b>% Residential</b>		50	80	50	50
<b>% Commercial</b>					
<b>% Industrial</b>					
<b>% Unused abandoned</b>					
<b>% Overgrown shrub and small trees</b>	100	50	20	50	50
<b>% Other</b>					
<b>Other Land Use Note</b>					
<b>Precipitation current</b>	overcast	clear	showers	rain	clear
<b>Precipitation recent</b>	rain	clear	overcast	rain	clear
<b>Water Odors</b>	none	none	none	non-wadable, none	none
<b>Water Odors Note</b>					
<b>Stream Width</b>	3.166	3.002	3.122		3.204
<b>Non-Wadable</b>				yes	
<b>Stream Width Note</b>				unsafe - water too high	
<b>Stream Depth</b>	0.145	0.1144	0.1476		0.1596
<b>Non-Wadable</b>				yes	
<b>Stream depth note</b>					
<b>Surface Velocity</b>	0.7425	0.6452	0.609		0.8664
<b>Surface Velocity Note</b>					
<b>Stream Flow Volume or Discharge</b>	0.273	0.1773	0.2245		0.3544
<b>USGS Gaging</b>					
<b>Air Temperature C</b>	20	16	4.5	11	10
<b>Air Temperature F</b>					
<b>Water Temperature C</b>	17	15	8	8	8
<b>Water Temperature F</b>					
<b>pH, S. U.</b>	6.7	6.6	6.7	6.5	6.9
<b>Dissolved Oxygen, mg/L</b>	7	10	12	11	11
<b>Specific Conductance</b>	300	260	230	150	270
<b>Nitrate, mg/L</b>	14.08	15.84	7.92	9.68	14.96
<b>Total Phosphate, mg/L</b>	5	5	11	0.8	0.8
<b>Sulfate, mg/L</b>	<50	<50	<50	<50	<50
<b>Total Alkalinity, mg/L as CaCO3</b>	70	70	50	40	40
<b>Other observations comments</b>	acidity .6; total iron 40				

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 27a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 810 - Cherry Run #6**

Water Body Name	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6
Site ID	1121	1121	1121	1121	1121	1121	1121
Monitor Date	8/11/2003	10/20/2003	1/19/2004	4/5/2004	5/17/2004	8/2/2004	10/11/2004
River Mile Index	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Type of Water Body	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1
Features							
Water Appearance	clear	clear	clear	clear	clear	clear	clear
Water Appearance Note							
Soil Odors	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note							
Sediment Deposits	none	none	none	none	none	none	none
Sediment Deposits Note							
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams							
High Water Mark							
Highwater Estimate							
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom							
% Bedrock							
% Boulder	5	5	10		20	15	75
% Cobble	60	75	30	25	65	65	
% Gravel	20	15	20	55	5	10	20
% Sand	10	4		10	5	8	
% Silt	5			5			
% Clay			35				4
% Other							
other note							
Organic Stream Bottom							
%_Muck-mud						2	
% Pulpy peat							
% Fibrous peat							
% Detritus		1	5	5	5		
% Logs limbs							1
% Marl							
% Other							
Other description							
Non Wadable							

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32a**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

Site ID	1121	1121	1121	1121	1121	1121	1121
Monitor Date	8/11/2003	10/20/2003	1/19/2004	4/5/2004	5/17/2004	8/2/2004	10/11/2004
Land Use							
% Wetlands							
% Forest							
% Cropland							
% Pasture							
% Residential	50	100	100	100	50	100	50
% Commercial							
% Industrial							
% Unused abandoned							
% Overgrown shrub and small trees	50				50		50
% Other							
Other Land Use Note							
Precipitation current	overcast	clear	showers	clear	clear	clear	clear
Precipitation recent	clear	clear	showers	showers	clear	clear	clear
Water Odors	none	none	none	none	none	none	none
Water Odors Note							
Stream Width	1.93	2.146		2.502	1.558	2.15	1.854
Non-Wadable			non-wadable				
Stream Width Note							
Stream Depth	0.0896	0.158		0.1708	0.0764	0.1616	0.122
Non-Wadable			non-wadable				
Stream depth note							
Surface Velocity	0.32	0.62		0.53	0.28	0.49	0.1
Surface Velocity Note							
Stream Flow Volume or Discharge	0.045	0.166		0.183	0.0268	0.136	0.018
USGS Gaging							
Air Temperature C	19	7	-8	-2	17	22	7
Air Temperature F							
Water Temperature C	19	9	0	3	15	18	9
Water Temperature F							
pH, S. U.	5.6	6.1	6.4	7.1	6.4	6.3	6.5
Dissolved Oxygen, mg/L	7	10		11	8	9	10
Specific Conductance	300	270	1060	260	410	280	330
Nitrate, mg/L	7	11	11	3.9	1.3	3.5	2.2
Total Phosphate, mg/L	4.4	0.5	0.48	0.64	9.4	0.96	4.3
Sulfate, mg/L	50	50	55	50	55	50	60
Total Alkalinity, mg/L as CaCO3	65	45	50	35	65	60	75

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

Water Body Name	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6	Cherry Run #6
Site ID	1121	1121	1121	1121	1121	1121	1121	1121
Monitor Date	11/15/2004	3/14/2005	7/11/2005	1/2/2006	2/20/2006	5/1/2006	6/5/2006	7/3/2006
River Mile Index	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	other	muddy/cloudy
Water Appearance Note							cloudy	
Soil Odors	non-wadable	non-wadable	non-wadable	other	non-wadable,none	none	none	none
Soil Odors Note				no unusual smells				
Sediment Deposits	none	none	other	other	none,non-wadable	other	other	none
Sediment Deposits Note			brown moss	no unusual deposits		brown moss	silt	
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	pool/riffle	meandering
Dams				no	no	no	no	no
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	U	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	none	none	occasional
Inorganic Stream Bottom								
% Bedrock								
% Boulder	30	20	30	20	15	50	75	75
% Cobble	50	60	60	60	60	45	24	20
% Gravel	5	15	9	15	10			5
% Sand	3	4		4	10			
% Silt					4			
% Clay	10							
% Other								
other note								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

Site ID	1121	1121	1121	1121	1121	1121	1121	1121
Monitor Date	11/15/2004	3/14/2005	7/11/2005	1/2/2006	2/20/2006	5/1/2006	6/5/2006	7/3/2006
Organic Stream Bottom								
%_Muck-mud					1			
% Pulpy peat								
% Fibrous peat								
% Detritus			1			5		
% Logs limbs		1		1				
% Marl								
% Other	2						1	1
Other description	leaves						not specified	not specified
Non Wadable				yes	yes			
Land Use								
% Wetlands								
% Forest								
% Cropland								
% Pasture								
% Residential	100	50	100	50	100	100	50	50
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees		50		50			50	50
% Other								
Other Land Use Note								
Precipitation current	clear	clear	clear	rain	clear	overcast	overcast	showers
Precipitation recent	clear	clear	clear	showers	clear	overcast	rain	overcast
Water Odors	none	none	none	other	none	none	none	none
Water Odors Note				no unusual odors				
Stream Width	1.828	2.29				1.746	2.616	2.048
Non-Wadable			non-wadable	yes	yes			
Stream Width Note				water too high - unsafe for monitors to enter water				
Stream Depth	0.114	0.1768				0.1316	0.3168	0.1464
Non-Wadable			non-wadable	yes	yes			
Stream depth note				water too high - unsafe for monitors to enter water				

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

Site ID	1121	1121	1121	1121	1121	1121	1121	1121
Monitor Date	11/15/2004	3/14/2005	7/11/2005	1/2/2006	2/20/2006	5/1/2006	6/5/2006	7/3/2006
Surface Velocity	0.17	0.39				0.4782	0.7849	0.4895
Surface Velocity Note				water too high - unsafe for monitors to enter water				
Stream Flow Volume or Discharge USGS Gaging	0.0278	0.1271				0.0879	0.52	0.1174
Air Temperature C	20	-4	20	2	-5	16	14	20
Air Temperature F								
Water Temperature C	2	-6	19	4		12	13	18
Water Temperature F								
pH, S. U.	5.9	5.5	6.8	6.6	6.2	6.7	6.4	6.6
Dissolved Oxygen, mg/L	12	12	7	11	13	11	11	8
Specific Conductance	280	550	570	370	400	290	300	290
Nitrate, mg/L	4.8	3.4	11	12.76	11	9.68	32.56	12.32
Total Phosphate, mg/L	16	17.2	4.4	3.2	15.2	0.02	2.72	3.33
Sulfate, mg/L	55	50	80	<50	<50	<50	<50	<50
Total Alkalinity, mg/L as CaCO3	55	40	85	40	40	55	50	40
Other observations comments						acidity of 40; total iron .3	acidity 40; total iron .1	total iron .4

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

Water Body Name	Cherry Run #6	Cherry Run #6	Cherry Run #6
Site ID	1121	1121	1121
Monitor Date	8/7/2006	9/25/2006	12/11/2006
River Mile Index	6.6	6.6	6.6
Type of Water Body	stream	stream	stream
Length of Assessed Area	1	1	1
Features			
Water Appearance	clear,non-wadable	clear	clear
Water Appearance Note			
Soil Odors	non-wadable,other	none	none
Soil Odors Note			
Sediment Deposits	none,non-wadable	none	other
Sediment Deposits Note			brownish orange bottom
Stream Type	meandering	channelized	meandering
Dams	no	no	no
High Water Mark			
Highwater Estimate			
Stream Bank Cross-Section Shape	rectangular	U	rectangular
Stream Bank Erosion	occasional	stabilized	occasional
<b>Inorganic Stream Bottom</b>			
% Bedrock			
% Boulder	40	25	30
% Cobble	50	60	50
% Gravel	15	10	15
% Sand	4	4	4
% Silt			
% Clay			
% Other			
other note			
<b>Organic Stream Bottom</b>			
%_Muck-mud			
% Pulpy peat			
% Fibrous peat			
% Detritus			
% Logs limbs			
% Marl			
% Other	1	1	1
Other description	not specified	not specified	leaves
Non Wadable	yes		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1121 - Cherry Run #6**  
**(Continued)**

<b>Site ID</b>	1121	1121	1121
<b>Monitor Date</b>	8/7/2006	9/25/2006	12/11/2006
<b>Land Use</b>			
<b>% Wetlands</b>			
<b>% Forest</b>			
<b>% Cropland</b>			
<b>% Pasture</b>			
<b>% Residential</b>	100	50	100
<b>% Commercial</b>			
<b>% Industrial</b>			
<b>% Unused abandoned</b>			
<b>% Overgrown shrub and small trees</b>		50	
<b>% Other</b>			
<b>Other Land Use Note</b>			
<b>Precipitation current</b>	clear	overcast	overcast
<b>Precipitation recent</b>	overcast	clear	overcast
<b>Water Odors</b>	non-wadable,other	none	none
<b>Water Odors Note</b>			
<b>Stream Width</b>		1.904	1.964
<b>Non-Wadable</b>	yes		
<b>Stream Width Note</b>	too low to measure		
<b>Stream Depth</b>		0.1416	0.1328
<b>Non-Wadable</b>	yes		
<b>Stream depth note</b>			
<b>Surface Velocity</b>		0.242	0.29
<b>Surface Velocity Note</b>			
<b>Stream Flow Volume or Discharge</b>		0.05219	0.0605
<b>USGS Gaging</b>	yes		
<b>Air Temperature C</b>	24	13	1
<b>Air Temperature F</b>			
<b>Water Temperature C</b>	22	15	1
<b>Water Temperature F</b>			
<b>pH, S. U.</b>	6.8	6.7	5.9
<b>Dissolved Oxygen, mg/L</b>	8	9	13
<b>Specific Conductance</b>	480	350	440
<b>Nitrate, mg/L</b>	5.28	10.56	10.56
<b>Total Phosphate, mg/L</b>	20.66	0.62	3.3
<b>Sulfate, mg/L</b>	<50	<50	<50
<b>Total Alkalinity, mg/L as CaCO3</b>	120	80	55

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 28a**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**

Water Body Name	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run #7	Cherry Run #7
Site ID	1184	1184	1184	1184	1184	1184	1184	1184
Monitor Date	5/17/2004	8/2/2004	10/11/2004	11/15/2004	3/14/2005	5/23/2005	7/11/2005	8/1/2005
River Mile Index	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Type of Water Body	stream	stream	stream	stream	stream	stream	stream	stream
Length of Assessed Area	1	1	1	1	1	1	1	1
Features								
Water Appearance	clear	clear	clear	clear	clear	clear	clear	clear
Water Appearance Note								
Soil Odors	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable	non-wadable
Soil Odors Note								
Sediment Deposits	none	none	none	none	none	none	other	none
Sediment Deposits Note							brown moss	
Stream Type	meandering	meandering	meandering	meandering	meandering	meandering	meandering	meandering
Dams								
High Water Mark								
Highwater Estimate								
Stream Bank Cross-Section Shape	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular	rectangular
Stream Bank Erosion	occasional	occasional	occasional	occasional	occasional	occasional	occasional	occasional
Inorganic Stream Bottom								
% Bedrock								
% Boulder	10	10	10	10	10	10	5	5
% Cobble	75	50	70	60	70	60	70	65
% Gravel	5	30	15	15	15	20	20	25
% Sand	5	5		13	4	5	4	4
% Silt			4			4		
% Clay								
% Other								
other note								
Organic Stream Bottom								
%_Muck-mud								
% Pulpy peat								
% Fibrous peat								
% Detritus	5							
% Logs limbs		5	1		1		1	1
% Marl								
% Other				2		1		
Other description				leaves		leaves		
Non Wadable								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 33**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

Site ID	1184	1184	1184	1184	1184	1184	1184	1184
Monitor Date	5/17/2004	8/2/2004	10/11/2004	11/15/2004	3/14/2005	5/23/2005	7/11/2005	8/1/2005
Land Use								
% Wetlands								
% Forest	50	50	50	50	50	50	50	
% Cropland								
% Pasture								100
% Residential								
% Commercial								
% Industrial								
% Unused abandoned		50						
% Overgrown shrub and small trees	50		50	50	50	50	50	
% Other								
Other Land Use Note								
Precipitation current	clear	clear	clear	clear	clear	showers	clear	clear
Precipitation recent	clear	clear	clear	clear	clear	overcast	clear	clear
Water Odors	none	none	none	none	none	none	none	none
Water Odors Note								
Stream Width	3.12	3.264	2.058	2.11	3.508	2.234		
Non-Wadable							non-wadable	non-wadable
Stream Width Note								
Stream Depth	0.119	0.0972	0.126	0.0988	0.146	0.112		
Non-Wadable							non-wadable	non-wadable
Stream depth note								
Surface Velocity	0.12	0.55	0.14	0.35	0.33	0.16		
Surface Velocity Note								
Stream Flow Volume or Discharge	0.0351		0.0299	0.0583	0.1372	0.0311		
USGS Gaging								
Air Temperature C	16	20	8	2	-4	12	20	
Air Temperature F								
Water Temperature C	14	18	8	0	-6	13	18	22
Water Temperature F								
pH, S. U.	6.1	6.4	6.7	5.8	5.5	6.1	6.5	6.8
Dissolved Oxygen, mg/L	8	9	11	12	12	9	8	7
Specific Conductance	200	140	150	160	140	140	240	890
Nitrate, mg/L	0.88	6.1	5.5	3.9	6.1	1.9	13	0.44
Total Phosphate, mg/L	17.2	6	4.8	8	8.4	8.4	4.5	0.48
Sulfate, mg/L	50	50	50	50	50	50	50	0
Total Alkalinity, mg/L as CaCO3	40	45	40	40	20	40	55	110

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>
<b>Site ID</b>	1184	1184	1184	1184	1184	1184	1184
<b>Monitor Date</b>	1/2/2006	2/20/2006	2/20/2006	4/10/2006	6/5/2006	7/3/2006	8/7/2006
<b>River Mile Index</b>	6.7	6.7	6.7	6.7	6.7	6.7	6.7
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	1	1	1	1	1	1	1
<b>Features</b>							
<b>Water Appearance</b>	clear	clear,non-wadable	clear,non-wadable	clear	muddy/cloudy	muddy/cloudy	clear,non-wadable
<b>Water Appearance Note</b>			partially frozen unsafe to go into				
<b>Soil Odors</b>	non-wadable,other	non-wadable,none	non-wadable,none	none	earthy	none	non-wadable,none
<b>Soil Odors Note</b>	no unusual smells						
<b>Sediment Deposits</b>	none,non-wadable	none,non-wadable	none,non-wadable	none	other	none	none,non-wadable
<b>Sediment Deposits Note</b>	no unusual sediments				silt		
<b>Stream Type</b>	meandering	meandering	meandering	meandering	pool/riffle	meandering	meandering
<b>Dams</b>	no	no	no	no	no	no	no
<b>High Water Mark</b>							
<b>Highwater Estimate</b>							
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular	rectangular	rectangular	U	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>							
<b>% Bedrock</b>							
<b>% Boulder</b>		10	10	10		10	10
<b>% Cobble</b>		60	60	60	50	60	60
<b>% Gravel</b>		20	20	20	45	15	20
<b>% Sand</b>		5	5	8	4	10	9
<b>% Silt</b>		4	4			4	
<b>% Clay</b>							
<b>% Other</b>	50						
<b>other note</b>	not listed						

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

Site ID	1184	1184	1184	1184	1184	1184	1184
Monitor Date	1/2/2006	2/20/2006	2/20/2006	4/10/2006	6/5/2006	7/3/2006	8/7/2006
<b>Organic Stream Bottom</b>							
%_Muck-mud		1	1				
% Pulpy peat							
% Fibrous peat							
% Detritus							
% Logs limbs							
% Marl							
% Other	50			2	1	1	1
Other description	not listed			moss	not specified	not specified	not specified
Non Wadable	yes	yes	yes				yes
<b>Land Use</b>							
% Wetlands							50
% Forest		50	50	50	75		
% Cropland							
% Pasture							
% Residential							
% Commercial							
% Industrial							
% Unused abandoned							
% Overgrown shrub and small trees		50	50	50	20		50
% Other	100				5	100	
Other Land Use Note	not listed				road	not specified	
Precipitation current	rain	clear	clear	clear	overcast	showers	clear
Precipitation recent	showers	clear	clear	clear	rain	overcast	overcast
Water Odors	non-wadable,other	non-wadable,none	non-wadable,none	none	none	none	non-wadable,none
Water Odors Note	no unusual smells						
Stream Width				2.734	7.178	6.772	
Non-Wadable	yes	yes	yes				yes
Stream Width Note	high water - too dangerous for monitors to enter	thin ice unsafe for monitors to enter stream	partially frozen unsafe to enter water				
Stream Depth				0.1244	0.2268	0.0988	
Non-Wadable	yes	yes	yes				yes
Stream depth note							
Surface Velocity				0.302	0.549	0.2434	

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

Site ID	1184	1184	1184	1184	1184	1184	1184
Monitor Date	1/2/2006	2/20/2006	2/20/2006	4/10/2006	6/5/2006	7/3/2006	8/7/2006
Surface Velocity Note							
Stream Flow Volume or Discharge				0.0822	0.715	1302	
USGS Gaging							yes
Air Temperature C	3	-5	-5	3.5	13	20	24
Air Temperature F							
Water Temperature C	4	-1	-1	4	12	18	21
Water Temperature F							
pH, S. U.	6.4	6.5	6.5	6.7	6.4	6.6	6.7
Dissolved Oxygen, mg/L	11	12	12	12	9	8	7
Specific Conductance	160	160	120	150	170	190	220
Nitrate, mg/L	11.4	8.8	8.8	6.6	19.36	22.88	0.88
Total Phosphate, mg/L	2.6	9	9	28	1.92	2.66	0.66

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33b**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

<b>Site ID</b>	1184	1184	1184	1184	1184	1184	1184
<b>Monitor Date</b>	1/2/2006	2/20/2006	2/20/2006	4/10/2006	6/5/2006	7/3/2006	8/7/2006
<b>Sulfate, mg/L</b>	<50	<50	<50		<50	<50	<50
<b>Total Alkalinity, mg/L as CaCO<sub>3</sub></b>	25	40	40	30	30	30	85

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

<b>Water Body Name</b>	<b>Cherry Run #7</b>	<b>Cherry Run #7</b>
<b>Site ID</b>	1184	1184
<b>Monitor Date</b>	10/2/2006	11/20/2006
<b>River Mile Index</b>	6.7	6.7
<b>Type of Water Body</b>	stream	stream
<b>Length of Assessed Area</b>	1	1
<b>Features</b>		
<b>Water Appearance</b>	clear	clear
<b>Water Appearance Note</b>		
<b>Soil Odors</b>	none	none
<b>Soil Odors Note</b>		
<b>Sediment Deposits</b>	none	none
<b>Sediment Deposits Note</b>		
<b>Stream Type</b>	meandering	meandering
<b>Dams</b>	no	no
<b>High Water Mark</b>		
<b>Highwater Estimate</b>		
<b>Stream Bank Cross-Section Shape</b>	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	occasional
<b>Inorganic Stream Bottom</b>		
<b>% Bedrock</b>		
<b>% Boulder</b>	20	15
<b>% Cobble</b>	60	65
<b>% Gravel</b>	10	10
<b>% Sand</b>	5	5
<b>% Silt</b>	4	4
<b>% Clay</b>		
<b>% Other</b>		
<b>other note</b>		
<b>Organic Stream Bottom</b>		
<b>%_Muck-mud</b>		
<b>% Pulpy peat</b>		
<b>% Fibrous peat</b>		
<b>% Detritus</b>		
<b>% Logs limbs</b>		
<b>% Marl</b>		
<b>% Other</b>	1	1
<b>Other description</b>	leaves	
<b>Non Wadable</b>		

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 33c**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Cherry Run**  
**Site ID 1184 - Cherry Run #7**  
**(Continued)**

<b>Site ID</b>	1184	1184
<b>Monitor Date</b>	10/2/2006	11/20/2006
<b>Land Use</b>		
<b>% Wetlands</b>		
<b>% Forest</b>	50	50
<b>% Cropland</b>		
<b>% Pasture</b>		
<b>% Residential</b>		
<b>% Commercial</b>		
<b>% Industrial</b>		
<b>% Unused abandoned</b>		
<b>% Overgrown shrub     and small trees</b>	50	50
<b>% Other</b>		
<b>Other Land Use Note</b>		
<b>Precipitation current</b>	showers	showers
<b>Precipitation recent</b>	clear	showers
<b>Water Odors</b>	none	none
<b>Water Odors Note</b>		
<b>Stream Width</b>	2.4	7.006
<b>Non-Wadable</b>		
<b>Stream Width Note</b>		
<b>Stream Depth</b>	0.1184	0.1704
<b>Non-Wadable</b>		
<b>Stream depth note</b>		
<b>Surface Velocity</b>	0.3392	0.447
<b>Surface Velocity Note</b>		
<b>Stream Flow Volume or Discharge</b>	0.0771	0.427
<b>USGS Gaging</b>		
<b>Air Temperature C</b>	9	2
<b>Air Temperature F</b>		
<b>Water Temperature C</b>	10	6
<b>Water Temperature F</b>		
<b>pH, S. U.</b>	7	6.8
<b>Dissolved Oxygen, mg/L</b>	11	13
<b>Specific Conductance</b>	180	140
<b>Nitrate, mg/L</b>	9.68	7.04
<b>Total Phosphate, mg/L</b>	3.68	3.3
<b>Sulfate, mg/L</b>	<50	<50
<b>Total Alkalinity, mg/L as CaCO3</b>	50	30

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 29**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Dixon Run**  
**Site ID 591 - Dixon Run**

<b>Water Body Name</b>	<b>Dixon Run</b>	<b>Dixon Run</b>
<b>Site ID</b>	591	591
<b>Monitor Date</b>	6/23/1999	9/13/1999
<b>River Mile Index</b>	22.65	22.65
<b>Type of Water Body</b>	stream	stream
<b>Length of Assessed</b>	30	30
<b>Features</b>		
<b>Water Appearance</b>	foamy milky/	green
<b>Water Appearance</b>	algae on	
<b>Soil Odors</b>	musty	musty
<b>Soil Odors Note</b>		
<b>Sediment Deposits</b>	none	sludge
<b>Sediment Deposits Note</b>		algae
<b>Stream Type</b>	meandering	meandering
<b>Dams</b>	no	
<b>High Water Mark</b>		0.61
<b>Highwater Estimate</b>		yes
<b>Stream Bank Cross- Stream Bank Erosion</b>	rectangular occasional	rectangular occasional
<b>Inorganic Stream</b>		
<b>% Bedrock</b>		
<b>% Boulder</b>	10	10
<b>% Cobble</b>	60	40
<b>% Gravel</b>	5	5
<b>% Sand</b>	5	
<b>% Silt</b>		
<b>% Clay</b>		
<b>% Other</b>	10	
<b>other note</b>	mud	
<b>Organic Stream</b>		
<b>%_Muck-mud</b>		
<b>% Pulpy peat</b>	1	2
<b>% Fibrous peat</b>	2	3
<b>% Detritus</b>	5	10
<b>% Logs limbs</b>	2	5
<b>% Marl</b>		
<b>% Other</b>		25
<b>Other description</b>		algae, sludge

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72



**Table 24**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Dixon Run**  
**Site ID 591**  
**(Continued)**

<b>Site ID</b>	591	591
<b>Monitor Date</b>	6/23/1999	9/13/1999
<b>Non wadable</b>		
<b>Land Use</b>		
<b>% Wetlands</b>		
<b>% Forest</b>	25	25
<b>% Cropland</b>		
<b>% Pasture</b>		
<b>% Residential</b>		
<b>% Commercial</b>		
<b>% Industrial</b>		
<b>% Unused abandoned</b>		
<b>% Overgrown shrub</b>	25	25
<b>% Other</b>	50	50
<b>Other Land Use Note</b>	50	park, baseball
<b>Precipitation current</b>	clear	overcast
<b>Precipitation recent</b>	clear	clear
<b>Water Odors</b>	none	musty
<b>Water Odors Note</b>		
<b>Stream Width</b>	5.58	4.36
<b>Non-Wadable</b>		
<b>Stream Width Note</b>		
<b>Stream Depth</b>	0.145	0.132
<b>Non-Wadable</b>		
<b>Stream depth note</b>		
<b>Surface Velocity</b>		0.21
<b>Surface Velocity Note</b>		
<b>Stream Flow Volume or USGS Gaging</b>		0.0989
<b>Air Temperature C</b>	23	21
<b>Air Temperature F</b>		
<b>Water Temperature C</b>	18	19
<b>Water Temperature F</b>		
<b>pH, S. U.</b>	6.1	6.7
<b>Dissolved Oxygen,</b>	9	8
<b>Specific Conductance</b>	560	
<b>Nitrate, mg/L</b>	0.22	0.26
<b>Total Phosphate, mg/L</b>	0.34	0.06
<b>Sulfate, mg/L</b>	200	200
<b>Total Alkalinity, mg/L</b>	40	0

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 30**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Marsh Run**  
**Site ID 500 - Marsh Run**

<b>Water Body Name</b>	<b>Marsh Run</b>	<b>Marsh Run</b>	<b>Marsh Run</b>	<b>Marsh Run</b>	<b>Marsh Run</b>
<b>Site ID</b>	500	500	500	500	500
<b>Monitor Date</b>	10/2/1998	11/3/1998	11/30/1998	12/1/1998	1/4/1999
<b>River Mile Index</b>	3.12	3.12	3.12	3.12	3.12
<b>Type of Water Body</b>	stream	stream	stream	stream	stream
<b>Area</b>	2.37	2.37	2.37	2.37	2.37
<b>Features</b>					
<b>Water Appearance</b>					
<b>Note</b>					
<b>Soil Odors</b>					
<b>Soil Odors Note</b>					
<b>Sediment Deposits</b>					
<b>Sediment Deposits Note</b>					
<b>Stream Type</b>					
<b>Dams</b>					
<b>High Water Mark</b>					
<b>Highwater Estimate</b>					
<b>Stream Bank Cross-Section Shape</b>					
<b>Stream Bank Erosion</b>					
<b>Bottom</b>					
<b>% Bedrock</b>					
<b>% Boulder</b>					
<b>% Cobble</b>					
<b>% Gravel</b>					
<b>% Sand</b>					
<b>% Silt</b>					
<b>% Clay</b>					
<b>% Other</b>					
<b>other note</b>					
<b>Organic Stream Bottom</b>					
<b>%_Muck-mud</b>					
<b>% Pulpy peat</b>					
<b>% Fibrous peat</b>					
<b>% Detritus</b>					
<b>% Logs limbs</b>					
<b>% Marl</b>					
<b>% Other</b>					
<b>Other description</b>					

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 23**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Marsh Run**  
**Site ID 500**  
**(Continued)**

Site ID	500	500	500	500	500
Monitor Date	10/2/1998	11/3/1998	11/30/1998	12/1/1998	1/4/1999
Non Wadable					
<b>Land Use</b>					
% Wetlands					
% Forest					
% Cropland					
% Pasture					
% Residential					
% Commercial					
% Industrial					
% Unused abandoned					
% Overgrown shrub and small trees					
% Other					
Other Land Use Note					
Precipitation current	clear	overcast	overcast	overcast	overcast
Precipitation recent	clear	overcast	overcast	overcast	overcast
Water Odors					
Water Odors Note					
Stream Width					
Non-Wadable					
Stream Width Note					
Stream Depth					
Non-Wadable					
Stream depth note					
Surface Velocity					
Surface Velocity Note					
Stream Flow Volume or Discharge					
USGS Gaging					
Air Temperature C	8	4	14	9	-7
Air Temperature F					
Water Temperature C	16	11	11	13	8
Water Temperature F					
pH, S. U.	7.2	7.1	7.5	7.6	7.4
Dissolved Oxygen, mg/L	7	12	9	12	13
Specific Conductance	590	570	705	396	835
Nitrate, mg/L	0.08	0.08	0.05	0.05	0.1
Total Phosphate, mg/L	1	0.04	0.16	0.1	0.7
Sulfate, mg/L	75	150	125	65	150
Total Alkalinity, mg/L as CaCO3	100	80	80	80	80

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 31**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Penn Run**  
**Site ID 979**

<b>Water Body Name</b>	<b>Penn Run</b>
<b>Site ID</b>	979
<b>Monitor Date</b>	11/8/2001
<b>River Mile Index</b>	19.8
<b>Type of Water Body</b>	stream
<b>Length of Assessed Area</b>	10
<b>Features</b>	
<b>Water Appearance</b>	orange/red
<b>Water Appearance Note</b>	
<b>Soil Odors</b>	musty
<b>Soil Odors Note</b>	
<b>Sediment Deposits</b>	other
<b>Sediment Deposits Note</b>	iron, gravel
<b>Stream Type</b>	pool/riffle
<b>Dams</b>	no
<b>High Water Mark</b>	3
<b>Highwater Estimate</b>	
<b>Stream Bank Cross- Section Shape</b>	rectangular
<b>Stream Bank Erosion</b>	extensive
<b>Inorganic Stream Bottom</b>	
<b>% Bedrock</b>	
<b>% Boulder</b>	20
<b>% Cobble</b>	20
<b>% Gravel</b>	10
<b>% Sand</b>	10
<b>% Silt</b>	10
<b>% Clay</b>	
<b>% Other</b>	
<b>other note</b>	
<b>Organic Stream Bottom</b>	
<b>%_Muck-mud</b>	
<b>% Pulpy peat</b>	
<b>% Fibrous peat</b>	10
<b>% Detritus</b>	10
<b>% Logs limbs</b>	10
<b>% Marl</b>	
<b>% Other</b>	
<b>Other description</b>	

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 7**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Penn Run**  
**Site ID 979**  
**(Continued)**

<b>Site ID</b>	979
<b>Monitor Date</b>	11/8/2001
<b>Non Wadable</b>	
<b>Land Use</b>	
<b>% Wetlands</b>	5
<b>% Forest</b>	60
<b>% Cropland</b>	
<b>% Pasture</b>	
<b>% Residential</b>	
<b>% Commercial</b>	
<b>% Industrial</b>	15
<b>% Unused abandoned</b>	
<b>% Overgrown shrub     and small trees</b>	20
<b>% Other</b>	
<b>Other Land Use Note</b>	
<b>Precipitation current</b>	clear
<b>Precipitation recent</b>	clear
<b>Water Odors</b>	musty other
<b>Water Odors Note</b>	
<b>Stream Width</b>	3.2
<b>Non-Wadable</b>	
<b>Stream Width Note</b>	
<b>Stream Depth</b>	0.121
<b>Non-Wadable</b>	
<b>Stream depth note</b>	
<b>Surface Velocity</b>	0.73
<b>Surface Velocity Note</b>	
<b>Stream Flow Volume or Discharge</b>	0.276
<b>USGS Gaging</b>	
<b>Air Temperature C</b>	8
<b>Air Temperature F</b>	
<b>Water Temperature C</b>	11
<b>Water Temperature F</b>	
<b>pH, S. U.</b>	6.2
<b>Dissolved Oxygen, mg/L</b>	7
<b>Specific Conductance</b>	850
<b>Nitrate, mg/L</b>	0.33
<b>Total Phosphate, mg/L</b>	0.6
<b>Sulfate, mg/L</b>	0
<b>Total Alkalinity, mg/L as CaCO3</b>	20

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 32**  
**Summary Of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Ramsey Run**  
**Site ID 823**

<b>Water Body Name</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>	<b>Ramsey Run</b>
<b>Site ID</b>	823	823	823	823	823	823	823	823
<b>Monitor Date</b>	10/18/2000	11/8/2001	6/19/2003	6/9/2005	6/8/2006	1/18/2007	6/7/2007	11/15/2007
<b>River Mile Index</b>	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.82
<b>Type of Water Body</b>	stream	stream	stream	stream	stream	stream	stream	stream
<b>Length of Assessed Area</b>	10	10	10	10	10	10	10	10
<b>Features</b>								
<b>Water Appearance</b>	muddy/ cloudy	clear	clear	clear	clear	clear,non- wadable	clear	muddy/ cloudy
<b>Water Appearance Note</b>								
<b>Soil Odors</b>	non- wadable	earthy	musty	earthy	musty	non- wadable,no	none	none
<b>Soil Odors Note</b>								
<b>Sediment Deposits</b>	sand	sand	sand	sludge	none	none,non- wadable	none	none
<b>Sediment Deposits Note</b>		grave;		gravel				
<b>Stream Type</b>	straight	pool/riffle	meandering braided p ool/riffle	meandering poo l/riffle	meandering, pool/riffle	meandering ,pool/riffle	meanderin g,braided, pool/riffle	meandering, pool/riffle
<b>Dams</b>	no	no			no	no	no	no
<b>High Water Mark</b>	3	2		2				
<b>Highwater Estimate</b>								
<b>Stream Bank Cross- Section Shape</b>	rectangular	rectangular	rectangular	U	rectangular	rectangular	rectangular	rectangular
<b>Stream Bank Erosion</b>	occasional	extensive	occasional	occasional	occasional	occasional	occasional	occasional
<b>Inorganic Stream Bottom</b>								
<b>% Bedrock</b>					5			
<b>% Boulder</b>	50	20	40	50	25	25	30	25
<b>% Cobble</b>	20	20	30	30	55	60	50	50
<b>% Gravel</b>	10	20	20	5	10	10	15	15
<b>% Sand</b>	10	10		5	2	2	2	5
<b>% Silt</b>	5	5	1	2	1	1	2	
<b>% Clay</b>			2		1			2
<b>% Other</b>								

NOTE: An explanation of the stream habitat assessment can be found in the "Water Quality Monitoring Field Manual For The Pennsylvania Senior Environment Corps", page 72

**Table 26**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Ramsey Run**  
**Site ID 823**  
**(Continued)**

Site ID	823	823	823	823	823	823	823	823
Monitor Date	10/18/2000	11/8/2001	6/19/2003	6/9/2005	6/8/2006	1/18/2007	6/7/2007	11/15/2007
other note								
<b>Organic Stream Bottom</b>								
% Muck-mud			2	5		1		2
% Pulpy peat		5						
% Fibrous peat		5						1
% Detritus	3	10						
% Logs limbs	2	5	5	1	1	1	1	
% Marl								
% Other				2				
Other description				unknown				
Non Wadable						yes		yes
<b>Land Use</b>								
% Wetlands								
% Forest	80	80	80	80	100	100	100	100
% Cropland								
% Pasture								
% Residential								
% Commercial								
% Industrial								
% Unused abandoned								
% Overgrown shrub and small trees	20	20	20	20				
% Other								
Other Land Use Note								
Precipitation current	showers	clear	showers	clear	clear	clear	clear	rain
Precipitation recent	overcast	clear	clear	clear	clear	clear	clear	rain
Water Odors	none	none	musty	earthy	none	non-wadable, none	none	none
Water Odors Note								
Stream Width	8.83	3.2	6.4	2.8	6.6		3	
Non-Wadable						yes		yes
Stream Width Note								
Stream Depth	0.228	0.193	0.16	0.114	0.16		0.1	
Non-Wadable						yes		yes
Stream depth note								
Surface Velocity	0.71	0.33	0.7	0.91	0.81		0.55	

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**Table 26**  
**Summary of Data From The Pennsylvania Environment Corps (PaSEC)**  
**Stream Description And Water Quality Data For Ramsey Run**  
**Site ID 823**  
**(Continued)**

Site ID	823	823	823	823	823	823	823	823
Monitor Date	10/18/2000	11/8/2001	6/19/2003	6/9/2005	6/8/2006	1/18/2007	6/7/2007	11/15/2007
Surface Velocity Note								
Stream Flow Volume or Discharge	1.156	0.163	0.587	0.232	0.68		0.132	
USGS Gaging								
Air Temperature C	11	10	21	22	17	25	15	4
Air Temperature F								
Water Temperature C	12	8	8	19	15	3	13	6
Water Temperature F								
pH, S. U.	6.7	6.3	6.6	6.6	6.4	6.5	6.8	6.7
Dissolved Oxygen, mg/L	7	9	10	9	9	13	9	11
Specific Conductance	260	700	340	360	225	160	418	290
Nitrate, mg/L	0.88	0	2.2	0.88	1.76	4.4	0.44	0.44
Total Phosphate, mg/L	0.1	1	0.14	0.14	0.1	N/D	0.1	N/D
Sulfate, mg/L	55	90	50	50	55	55	50	75
Total Alkalinity, mg/L as CaCO3	60	40	45	90	50	35	80	65
Other observations comments					acidity 0	acidity 20; fe iron .2	acidity 40; total iron N/D	acidity 40

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