



Part VII

CONSERVATION RESOURCES AND TOOLS

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This section of the Lehigh River Watershed Conservation Management Plan is designed to provide tools, resources and contacts to aid in the implementation of the recommendations listed in the Plan. Organizational contact information was collected from a wide variety of resources including, The Pennsylvania Department of Environmental Protection's Conservation Directory, official web sites, Personal References and numerous environmental listings. Due to the vast amount of contact information available and the continually changing personnel of the listed agencies, Wildlands Conservancy would like to apologize for any oversight or missed listings of organization involved in the Lehigh River Watershed.

A. Lehigh River Watershed Organizations and Entities

1. ALPHABETICAL LIST OF ORGANIZATIONS OF THE LEHIGH RIVER WATERSHED

1. Agricultural Land Preservation Program – Berks County
2. Agricultural Land Preservation Program – Bucks County
3. Agricultural Land Preservation Program – Carbon County
4. Agricultural Land Preservation Program – Lackawanna County
5. Agricultural Land Preservation Program – Lehigh County
6. Agricultural Land Preservation Program – Luzerne County
7. Agricultural Land Preservation Program – Monroe County
8. Agricultural Land Preservation Program – Northampton County
9. Agricultural Land Preservation Program – Schuylkill County
10. Agricultural Land Preservation Program – Wayne County
11. Agshen, Inc.
12. Alburtis Borough Environmental Advisory Council
13. Alburtis-Lockridge Historical Society
14. Allentown Hiking Club
15. Alliance for Sustainable Communities- of the Lehigh Valley
16. Alliance for the Little Lehigh Creek
17. American Farmland Trust – New England Field Office
18. American Rivers
19. Appalachian Mountain Club (AMC) / Delaware Valley Chapter
20. Appalachian Mountain Club (AMC) / Main Office
21. Appalachian Trail Conference
22. Aquashicola/Pohopoco Watershed Conservancy
23. Arrowhead Lakes
24. Audubon Society – Bucks County Chapter
25. Audubon Society – Greater Wyoming Valley
26. Audubon Society – Lehigh Valley Chapter
27. Audubon Society – Northeast Pennsylvania

28. Audubon Society – Pocono Mountain Chapter
29. Berks County Conservancy
30. Berks County Conservation District
31. Berks County Environmental Organization Network
32. Berks Recycling Coalition
33. Bethlehem Works
34. Bucks County Conservation District
35. Bucks County Historical Society
36. Bushkill Township Environmental Advisory Council
37. Canaan Valley Institute
38. Carbon County Conservation District
39. Carbon County Environmental Advisory Council
40. Carbon County Environmental Education Center
41. Carbon County Groundwater Guardians
42. Carbon County Planning Department
43. Cedar Crest College / Biology Department
44. Center for Watershed Protection
45. City of Allentown Bureau of Water Resources
46. Clean Water Action / Lehigh Office
47. Coalition for Alternative Transportation
48. Conservation Fund
49. Coolbaugh Township Environmental Advisory Council
50. Coopersburg Environmental Committee
51. DCNR / Delaware Canal State Park
52. DCNR / Hickory Run State Park
53. DCNR / Lehigh Gorge State Park
54. DCNR / Jacobsburg State Park / Environmental Education Center
55. Delaware & Lehigh National Heritage Corridor Commission
56. Delaware Highlands Conservancy
57. Delaware River Basin Commission (DRBC) / Pennsylvania Commission
58. Delaware River Greenway Partnership
59. Delaware River Shad Fishermen’s Association
60. Delaware Riverkeeper Network
61. DeSales University / Biology Department
62. Ducks Unlimited, Inc.
63. Earth and Environmental Sciences – Lehigh University
64. Earth Conservancy
65. Easton Heritage Alliance
66. Economic Development Council of Northeastern Pennsylvania
67. Emmaus Historical Society
68. ENACT of Muhlenberg College

69. Environmental Action Committee
70. Friends of the Delaware Canal
71. Governor's Center for Local Government Services / Northeast Regional Office
72. Governor's Center for Local Government Services / State Office
73. Greater Lehigh Valley Chamber of Commerce
74. Green Valley Coalition
75. Hawk Mountain Sanctuary Association
76. Hazleton City Water Authority
77. Heidelberg Township Environmental Advisory Council
78. Heritage Conservancy
79. Highlands Coalition
80. Historic Bethlehem Partnership
81. Historic Catasauqua
82. Historical Society of Berks County
83. Historical Society of Schuylkill County
84. Hugh Moore Park
85. Kalmbach Memorial Park
86. Kittatinny Ridge Coalition
87. Kutztown University Environmental Science Forum
88. Lacawac Sanctuary
89. Lackawanna County Conservation District
90. Lackawanna County Recycling & Solid Waste
91. Lackawanna Historical Society
92. Lackawanna River Corridor Association
93. Lackawanna Valley Conservancy
94. Lafayette College / Biology Department
95. Lake Harmony
96. League of Women Voters of Pennsylvania
97. Lehigh County Conservation District
98. Lehigh County Historical Society
99. Lehigh Gap Historical & Preservation Society
100. Lehigh River Stocking Association
101. Lehigh River Watch
102. Lehigh University / Earth Observatory (LEO)
103. Lehigh Valley Canoe Club
104. Lehigh Valley Coalition for a Safe Environment
105. Lehigh Valley Convention & Visitors Bureau
106. Lehigh Valley Economic Development Corporation
107. Lehigh Valley Greens
108. Lehigh Valley Land Recycling Initiative
109. Lehigh Valley Planning Commission
110. Lehigh Valley Water Suppliers, Inc.

111. Lehighon Water Authority
112. Leibert Creek Watershed Group
113. Lenni Lenape Historical Society
114. Litter Control & Beautification Program of Monroe County
115. Little Lehigh Creek Watershed Coalition
116. Local Environmental Awareness Development Group (LEAD)
117. Lower Macungie Township Historical Society
118. Lower Nazareth Township Environmental Advisory Council
119. Lower Saucon Township Environmental Advisory Council
120. Luzerne County Community College Science Club
121. Luzerne County Conservation District
122. Luzerne County Convention & Visitors Bureau
123. Luzerne County Historical Society
124. Macungie Historical Society
125. Mariton Wildlife Sanctuary and Wilderness Trust
126. Mauch Chunk Historical Society of Carbon County
127. Monocacy Creek Watershed Association, Inc.
128. Monroe County Conservation District
129. Monroe County Historical Association
130. Monroe County Planning Commission
- 130a. Montgomery County Lands Trust
131. Moravian College / Biology Department
132. Moravian Historical Society
133. NLC Outdoor Sportsman Association
134. National Canal Museum
135. National Museum of Industrial History
136. Natural Lands Trust
137. Nature Conservancy, Pennsylvania Chapter – Headquarters
138. Nature Conservancy, Pennsylvania Chapter – Northeastern Pa. Field Office
139. Nazareth Environmental Council
140. North Branch Land Trust
141. Northampton Borough Municipal Authority
142. Northampton County Conservation District
143. Northampton County Environmental Advisory Council
144. Northampton County Historical & Genealogical Society
145. Northampton County Junior Conservation School
146. Northampton Greenway Partnership
147. Northeast Pennsylvania Convention & Visitors Bureau
148. Old Allentown Preservation Association
149. Palmer Township Environmental Advisory Council
150. Palmer Township Environmental Steering Committee
151. Palmerton Citizens for a Clean Environment

152. Penn State Cooperative Extension Office – Berks County
153. Penn State Cooperative Extension Office – Bucks County
154. Penn State Cooperative Extension Office – Carbon County
155. Penn State Cooperative Extension Office – Lackawanna County
156. Penn State Cooperative Extension Office – Luzerne County
157. Penn State Cooperative Extension Office – Monroe County
158. Penn State Cooperative Extension Office – Northampton County
159. Penn State Cooperative Extension Office – Schuylkill County
160. Penn State Cooperative Extension Office – Wayne County
161. Penn State Lehigh Valley / Biology Department
162. Pennsylvania Association of Environmental Professionals
163. Pennsylvania Council of Professional Foresters
164. Pennsylvania Department of Community and Economic Development (DCED)
165. Pennsylvania Department of Conservation and Natural Resources (DCNR) / State Office
166. Pennsylvania Department of Conservation and Natural Resources (DCNR) / NE Regional Office
167. Pennsylvania Department of Environmental Protection (DEP)
168. Pennsylvania Environmental Council – Northeast Pennsylvania Office
169. Pennsylvania Environmental Council (PEC) – Headquarters / Philadelphia County
170. Pennsylvania Federation of Sportsman Clubs / Northeast Chapter
171. Pennsylvania Federation of Sportsman Clubs / Southeast Chapter
172. Pennsylvania Federation of Sportsman Clubs / State Office
173. Pennsylvania Fish & Boat Commission
174. Pennsylvania Game Commission
175. Pennsylvania Historical and Museum Commission
176. Pennsylvania Organization for Watershed and Rivers (POWR)
177. Pennsylvania Raptor & Wildlife Association, Inc.
178. Pennsylvania Spatial Data Access (PASDA)
179. Pennsylvania State Association of Township Supervisors
180. Pocono Heritage Land Trust
181. Pocono Mountain Vacation Bureau
182. Pocono Northeast Resource Conservation & Development Council
183. Rails to Trails Conservancy
184. Retired & Senior Volunteer Program (RSVP)
185. Rush Township Environmental Advisory Council
186. Schuylkill County Conservation District
187. Schuylkill County Environmental Advisory Council
188. Schuylkill County Office of Solid Waste Management
189. Sierra Club – Berks County Group
190. Sierra Club – Bucks County Group
191. Sierra Club – Lehigh Valley Group
192. Sierra Club – Northeastern Group

193. Slate Belt Museum
194. Southeastern Pennsylvania Resource Conservation & Development Council
195. South Whitehall Township Environmental Advisory Council
196. Southern Wayne Trail Riders Association, Inc.
197. Sterling Township Environmental Advisory Council
198. Stroud Water Research Center
199. The Bear Creek Lake's Watershed Association
200. The Center for Rural Pennsylvania
201. The Roving Nature Center
202. Tobyhanna / Tunkhannock Creeks Watershed Association
203. Trexler-Lehigh County Game Preserve
204. Trout Unlimited – Forks of the Delaware Chapter 482
205. Trout Unlimited – Hokendauqua 535
206. Trout Unlimited – Little Lehigh 070
207. Trout Unlimited – Monocacy 491
208. Trout Unlimited – National Office
209. Trout Unlimited – Pennsylvania Council
210. Trout Unlimited – Saucon Creek 724
211. Trout Unlimited – Schuylkill County Chapter 537
212. Trust for Public Land – Washington Office
213. Two Rivers Area Chamber of Commerce
214. U.S. Geological Survey
215. U.S. Army Corps of Engineers
216. U.S. Environmental Protection Agency
217. U.S. Fish and Wildlife Service
218. Upper Saucon Environmental Advisory Council
219. U.S. EPA Region III
220. USDA/Farm Service Agency – Berks County
221. USDA/Farm Service Agency – Bucks County
222. USDA/Farm Service Agency – Carbon/Monroe County
223. USDA/Farm Service Agency – Lackawanna/Wayne/Pike County
224. USDA/Farm Service Agency – Lehigh County
225. USDA/Farm Service Agency – Luzerne County
226. USDA/Farm Service Agency – Northampton County
227. USDA/Farm Service Agency – Schuylkill County
228. Walnutport Canal Association
229. Water Resources Association Of The Delaware River Basin
230. Wayne County Conservation District
231. Wayne County Department of Planning
232. Wayne County Historical Society Museum
233. Weisenberg Township Environmental Advisory Council
234. Whitehall Township Environmental Advisory Council

- 235. Wildlands Conservancy, Inc.
- 236. Wildlife Information Center
- 237. Wilkes University

2. ALPHABETICAL LIST OF CONSERVATION ORGANIZATIONS OF THE LEHIGH RIVER WATERSHED BY COUNTY

BERKS COUNTY

- 1. Agricultural Land Preservation Program– Berks County
- 13. Alburtis-Lockridge Historical Society
- 29. Berks County Conservancy
- 30. Berks County Conservation District
- 31. Berks County Environmental Organization Network
- 32. Berks Recycling Coalition
- 69. Environmental Action Committee
- 75. Hawk Mountain Sanctuary Association
- 82. Historical Society of Berks County
- 116. Local Environmental Awareness Development Group (LEAD)
- 152. Penn State Cooperative Extension Office – Berks County
- 189. Sierra Club – Berks County Group
- 220. USDA/Farm Service Agency – Berks County

BUCKS COUNTY

- 2. Agricultural Land Preservation Program – Bucks County
- 24. Audubon Society-Bucks County Chapter
- 34. Bucks County Conservation District
- 35. Bucks County Historical Society
- 78. Heritage Conservancy
- 153. Penn State Cooperative Extension Office – Bucks County
- 190. Sierra Club-Bucks County Group
- 221. USDA/Farm Service Agency – Bucks County

CARBON COUNTY

- 3. Agricultural Land Preservation Program – Carbon County
- 38. Carbon County Conservation District
- 39. Carbon County Environmental Advisory Council
- 40. Carbon County Environmental Education Center
- 41. Carbon County Groundwater Guardians
- 42. Carbon County Planning Department
- 52. DCNR / Hickory Run State Park
- 53. DCNR / Lehigh Gorge State Park
- 99. Lehigh Gap Historical & Preservation Society
- 111. Lehighon Water Authority
- 126. Mauch Chunk Historical Society of Carbon County

- 151. Palmerton Citizens for a Clean Environment
- 154. Penn State Cooperative Extension Office – Carbon County
- 199. The Bear Creek Lake’s Watershed Association
- 222. USDA/Farm Service Agency – Carbon/Monroe County

LACKAWANNA COUNTY

- 4. Agricultural Land Preservation Program – Lackawanna County
- 89. Lackawanna County Conservation District
- 90. Lackawanna County Recycling & Solid Waste
- 91. Lackawanna Historical Society
- 92. Lackawanna River Corridor Association
- 93. Lackawanna Valley Conservancy
- 147. Northeast Pennsylvania Convention & Visitors Bureau
- 155. Penn State Cooperative Extension Office – Lackawanna County
- 182. Pocono Northeast Resource Conservation & Development Council
- 192. Sierra Club – Northeastern Group
- 223. USDA/Farm Service Agency – Lackawanna/Wayne/Pike County

LEHIGH COUNTY

- 5. Agricultural Land Preservation Program – Lehigh County
- 12. Alburtis Borough Environmental Advisory Council
- 15. Allentown Hiking Club
- 16. Alliance for the Little Lehigh Creek
- 26. Audubon Society – Lehigh Valley Chapter
- 43. Cedar Crest College / Biology Department
- 45. City of Allentown Bureau of Water Resources
- 46. Clean Water Action – Lehigh Office
- 50. Coopersburg Environmental Council
- 61. DeSales University / Biology Department
- 67. Emmaus Historical Society
- 68. ENACT of Muhlenberg College / Biology Department
- 74. Green Valley Coalition
- 77. Heidelberg Township Environmental Advisory Council
- 81. Historic Catasauqua
- 85. Kalmbach Memorial Park
- 97. Lehigh County Conservation District
- 98. Lehigh County Historical Society
- 101. Lehigh River Watch
- 113. Lenni Lenape Historical Society
- 115. Little Lehigh Creek Watershed Coalition
- 117. Lower Macungie Township Historical Society
- 124. Macungie Historical Society
- 148. Old Allentown Preservation Association

- 161. Penn State Lehigh Valley / Biology Department
- 173. Pennsylvania Fish & Boat Commission
- 184. Retired & Senior Volunteer Program (RSVP)
- 191. Sierra Club – Lehigh Valley Group
- 195. South Whitehall Township Environmental Advisory Council
- 203. Trexler-Lehigh County Game Preserve
- 206. Trout Unlimited – Little Lehigh
- 218. Upper Saucon Environmental Advisory Council
- 224. USDA/Farm Service Agency – Lehigh County
- 233. Weisenberg Township Environmental Advisory Council
- 234. Whitehall Township Environmental Advisory Council
- 235. Wildlands Conservancy, Inc.
- 236. Wildlife Information Center

LUZERNE COUNTY

- 6. Agricultural Land Preservation Program – Luzerne County
- 25. Audubon Society – Greater Wyoming Valley
- 64. Earth Conservancy
- 66. Economic Development Council of Northeastern Pennsylvania
- 120. Luzerne County Community College Science Club
- 121. Luzerne County Conservation District
- 122. Luzerne County Convention & Visitors Bureau
- 123. Luzerne County Historical Society
- 140. North Branch Land Trust
- 156. Penn State Cooperative Extension Office – Luzerne County
- 168. Pennsylvania Environmental Council – Northeast Pennsylvania Office
- 170. Pennsylvania Federation of Sportsman Clubs / Northeast Chapter
- 225. USDA/Farm Service Agency – Luzerne County
- 236. Wilkes University

MONROE COUNTY

- 7. Agricultural Land Preservation Program – Monroe County
- 23. Arrowhead Lakes
- 28. Audubon Society – Pocono Mountain Chapter
- 49. Coolbaugh Township Environmental Advisory Council
- 95. Lake Harmony
- 114. Litter Control & Beautification Program of Monroe County
- 128. Monroe County Conservation District
- 129. Monroe County Historical Association
- 130. Monroe County Planning Commission
- 138. Nature Conservancy of Pennsylvania – Northeastern Pa. Office
- 157. Penn State Cooperative Extension Office – Monroe County
- 181. Pocono Mountain Vacation Bureau

- 202. Tobyhanna / Tunkhannock Creek Watershed Association
- 217. U.S. Fish and Wildlife Service
- 222. USDA/Farm Service Agency – Carbon/Monroe County

NORTHAMPTON COUNTY

- 8. Agricultural Land Preservation Program – Northampton County
- 11. Agshen, Inc.
- 33. Bethlehem Works
- 36. Bushkill Township Environmental Advisory Council
- 47. Coalition for Alternative Transportation
- 54. DCNR / Jacobsburg State Park/Environmental Education Center
- 65. Easton Heritage Alliance
- 80. Historic Bethlehem Partnership
- 84. Hugh Moore Park
- 94. Lafayette College / Biology Department
- 102. Lehigh University / Earth Observatory (LEO)
- 104. Lehigh Valley Coalition for a Safe Environment
- 105. Lehigh Valley Convention & Visitors Bureau
- 107. Lehigh Valley Greens
- 118. Lower Nazareth Township Environmental Advisory Council
- 119. Lower Saucon Township Environmental Advisory Council
- 125. Mariton Wildlife Sanctuary and Wilderness Trust
- 127. Monocacy Creek Watershed Association, Inc.
- 131. Moravian College / Biology Department
- 132. Moravian Historical Society
- 134. National Canal Museum
- 135. National Museum of Industrial History
- 139. Nazareth Environmental Council
- 141. Northampton Borough Municipal Authority
- 142. Northampton County Conservation District
- 143. Northampton County Environmental Advisory Council
- 144. Northampton County Historical & Genealogical Society
- 145. Northampton County Junior Conservation School
- 146. Northampton Greenway Partnership
- 149. Palmer Township Environmental Advisory Council
- 150. Palmer Township Environmental Steering Committee
- 158. Penn State Cooperative Extension Office – Northampton County
- 171. Pennsylvania Federation of Sportsman Clubs / Southeast Chapter
- 177. Pennsylvania Raptor & Wildlife Association, Inc.
- 201. The Roving Nature Center
- 204. Trout Unlimited – Forks of the Delaware Chapter
- 205. Trout Unlimited – Hokendauqua 535
- 207. Trout Unlimited-Monocacy 491

- 210. Trout Unlimited – Saucon Creek 724
- 213. Two Rivers Area Chamber of Commerce
- 226. USDA/Farm Service Agency – Northampton County
- 228. Walnutport Canal Association

SCHUYLKILL COUNTY

- 9. Agricultural Land Preservation Program – Schuylkill County
- 83. Historical Society of Schuylkill County
- 159. Penn State Cooperative Extension Office – Schuylkill County
- 185. Rush Township Environmental Advisory Council
- 186. Schuylkill County Conservation District
- 187. Schuylkill County Environmental Advisory Council
- 188. Schuylkill County Office of Solid Waste Management
- 211. Trout Unlimited – Schuylkill County Chapter
- 227. USDA/Farm Service Agency – Schuylkill County

WAYNE COUNTY

- 10. Agricultural Land Preservation Program – Wayne County
- 27. Audubon Society – Northeast Pennsylvania
- 56. Delaware Highlands Conservancy
- 88. Lacawac Sanctuary
- 160. Penn State Cooperative Extension Office – Wayne County
- 196. Southern Wayne Trail Riders Association, Inc.
- 197. Sterling Township Environmental Advisory Council
- 223. USDA/Farm Service Agency – Lackawanna/Wayne/Pike County
- 230. Wayne County Conservation District
- 231. Wayne County Department of Planning
- 232. Wayne County Historical Society Museum

3. REGIONAL CONSERVATION ORGANIZATIONS ACTIVE IN THE LEHIGH RIVER WATERSHED

- 15. Alliance for Sustainable Communities of the Lehigh Valley
- 17. American Farmland Trust – New England Field Office
- 18. American Rivers
- 19. Appalachian Mountain Club / Delaware Valley Chapter
- 20. Appalachian Mountain Club / Main Office
- 21. Appalachian Trail Conference
- 22. Aquashicola/Pohopoco Watershed Conservancy
- 37. Canaan Valley Institute (CVI)
- 44. Center for Watershed Protection
- 48. Conservation Fund
- 51. DCNR / Delaware Canal State Park
- 55. Delaware & Lehigh National Heritage Corridor Commission

57. Delaware River Basin Commission (DRBC) / Pennsylvania Commission
58. Delaware River Greenway Partnership
59. Delaware River Shad Fishermen's Association
60. Delaware Riverkeeper Network
62. Ducks Unlimited, Inc.
70. Friends of the Delaware Canal
71. Governor's Center for Local Government Services / Northeast Regional Office
72. Governor's Center for Local Government Services / State Office
73. Greater Lehigh Valley Chamber of Commerce
76. Hazleton City Water Authority
79. Highlands Coalition
86. Kittatinny Ridge Coalition
87. Kutztown University Environmental Science Forum
96. League of Women Voters of Pennsylvania
100. Lehigh River Stocking Association
103. Lehigh Valley Canoe Club
106. Lehigh Valley Economic Development Corporation
108. Lehigh Valley Land Recycling Initiative
109. Lehigh Valley Planning Commission
110. Lehigh Valley Water Suppliers, Inc.
- 130a. Montgomery County Land Trust
133. NLC Outdoor Sportsman Association
136. Natural Lands Trust
137. The Nature Conservancy, Pennsylvania Chapter – Headquarters
138. The Nature Conservancy, Pennsylvania Chapter – Northeastern Pa. Field Office
140. North Branch Land Trust
162. Pennsylvania Association of Environmental Professionals
163. Pennsylvania Council of Professional Foresters
164. Pennsylvania Department of Community and Economic Development (DCED)
165. Pennsylvania Department of Conservation and Natural Resources (DCNR) / State Office
166. Pennsylvania Dept of Conservation and Natural Resources (DCNR) / NE Regional Office
167. Pennsylvania Department of Environmental Protection (DEP)
169. Pennsylvania Environmental Council – Headquarters / Philadelphia County (PEC)
172. Pennsylvania Federation of Sportsman Clubs / State Office
174. Pennsylvania Game Commission
175. Pennsylvania Historical and Museum Commission (PHMC)
176. Pennsylvania Organization for Watershed and Rivers (POWR)
178. Pennsylvania Spatial Data Access (PASDA)
179. Pennsylvania State Association of Township Supervisors (PSATS)
180. Pocono Heritage Land Trust
183. Rails to Trails Conservancy
193. Slate Belt Museum

- 194. Southeastern Pennsylvania Resource Conservation & Development Council
- 198. Stroud Water Research Center
- 200. The Center for Rural Pennsylvania
- 208. Trout Unlimited – National Office
- 209. Trout Unlimited – Pennsylvania Council
- 212. Trust for Public Land – Washington Office
- 214. U.S. Geological Survey
- 215. U.S. Army Corps of Engineers
- 216. U.S. Environmental Protection Agency
- 219. U.S. EPA Region III / Philadelphia
- 229. Water Resources Association Of The Delaware River Basin

4. CONSERVATION ORGANIZATIONS OF THE LEHIGH RIVER WATERSHED

a. Local Conservation Organizations

1. WATERSHED ASSOCIATIONS

16. ALLIANCE FOR THE LITTLE LEHIGH CREEK

4184 Dorney Park Road, Allentown, Pennsylvania 18104

Contact: Rebecca Hayden / Lehigh County Watershed Specialist

Phone: 610-391-9583 ext. 18 Fax: 610-391-1131

E-Mail Address: rebecca-hayden@pa.nacdn.net

Group Type: Non-Profit Organization

Mission: Watershed alliance focused on the protection, preservation and enhancement of the Little Lehigh Creek.

Region Served: Multi-County

46. CLEAN WATER ACTION / LEHIGH OFFICE

37 N. 8th St., Allentown, Pennsylvania 18101

Contact: Patricia Smith / Regional Director

Phone: 610-434-9223 Fax:

Group Type: Public Interest; Advocacy

E-Mail Address: allentowncwa@cleanwater.org

Web Site: www.cleanwateraction.org

Publications: "Clean Water Action Pennsylvania Newsletter" / Bi-monthly

Mission: To safeguard public health and the environment by lobbying for environmental legislation, enforcing existing laws, and working to elect environmental candidates to public office.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Recycling; Municipal Waste; Hazardous Waste; and Pesticides and Toxics.

Region Served: State

Membership Count: 80,000

59. DELAWARE RIVER SHAD FISHERMEN'S ASSOCIATION

4110 Shannon Ave., Bethlehem, Pennsylvania 18020

Contact: John Scholl / Financial Secretary

Phone: 610-838-0132 Fax:

Group Type: Advocacy; Public Interest

E-Mail Address: SHADFISHERMAN@AOL.COM

Web Site: www.GEOCITIES.COM/SHADHOTLINE

Publications: "The Shad Times" Newsletter

Mission: To protect the environment and the beautiful Delaware River, its tributaries, and the American Shad.

Issues: Environmental Education; Hunting or Fishing; Heritage Preservation; and River, Stream or Watershed Protection.

Region Served: Multi-state

Membership Count: 1,250

92. LACKAWANNA RIVER CORRIDOR ASSOCIATION

P.O. Box 368, Scranton, Pennsylvania 18501-0368

Contact: Bernard McGurl / Executive Director

Phone: 570-207-7608 Fax: 570-207-7590

Group Type: Public Interest; Education; Conservation

E-Mail Address: lrc2@epix.net

Publications: "Lackawanna River Currents" / Quarterly

Mission: To encourage the restoration, protection and appropriate management of the Lackawanna River and its watershed through public education and active involvement with river-related issues.

Issues: Wetlands; Water Pollution; Mining & Reclamation; Environmental Education; Local Land Use; Industrial Site Re-use; Forestry Issues; Outdoor Recreation; Heritage Preservation; and River, Stream or Watershed Protection.

Region Served: Multi-County

Membership Count: 600

100. LEHIGH RIVER STOCKING ASSOCIATION

P.O. Box 54, Walnutport, Pennsylvania 18088

Contact: Frank Bostick / President

Group Type: Non-Profit Preservation

E-Mail Address: info@lrsa.org

Web Site: www.lrsa.org

Mission: Our goal is the continuous improvement of this waterway and its tributaries. Our objectives are to insure clean water, a healthy and balanced ecosystem, and abundant fishery and access points for all citizens to enjoy.

Issues: Water Pollution; Hunting or Fishing; and River, Stream, or Watershed Protection.

Region Served: Multi-county

Membership Count: 2,100

101. LEHIGH RIVER WATCH

1231 Clearview Road, Coplay, Pennsylvania 18037

Contact: Robert Miller

Phone: 610-262-6127

E-Mail Address: LRWatch@aol.com

Web Site: www.lrsa.org

112. LEIBERT CREEK WATERSHED GROUP

4184 Dorney Park Rd., Ste. 102, Allentown, Pennsylvania 18104

Contact: Rebecca Hayden

Phone: 610-391-9583 ext. 18

E-Mail Address: rebecca-hayden@pa.nacdnet.org

115. LITTLE LEHIGH WATERSHED COALITION

11 West Pine St., Emmaus, Pennsylvania 18049

Contact: Mike Siegel / President; Jan Keim / Secretary

Phone: 610-366-8466; 610-965-2361

127. MONOCACY CREEK WATERSHED ASSOCIATION, INC.

P.O. Box 1041, Bethlehem, Pennsylvania 18016

Contact: Philip Burtner / President

Phone: 610-861-5152 Fax: 215-257-5711

Group Type: Advocacy; Conservation; Environmental Advisory Council

E-Mail Address: phil_burtner@hotmail.com

Publications: "The Bulletin" / Bi-annually

Mission: To promote and protect the water quality and related resources of the Monocacy Creek Watershed.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; Industrial Site Re-use; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation & Management; and River, Stream or Watershed Protection.

Region Served: Multi-county

Membership Count: 300

199. THE BEAR CREEK LAKE'S WATERSHED ASSOCIATION

167 North Lake Drive, Jim Thorpe, Pennsylvania 18229

Contact: Jake McGeehan

E-Mail Address: jakemc@ptd.net

202. TOBYHANNA / TUNKHANNOCK CREEK WATERSHED ASSOCIATION

P.O. Box 796, Pocono Lake, Pennsylvania 18347

Contact: Wes Shirk / President

Phone: 570-643-2001 Fax: 570-643-1295

Group Type: Public Interest

E-Mail Address: whip@epix.org

Web Site: www.tctcwa.org

Publications: Newsletter / Tri-annually; Educational Brochures

Mission: To educate the community in ways to protect the waters, wetlands, woodlands and wildlife within our watershed.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Land Conservation; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation & Management; and River, Stream or Watershed Protection.

Region Served: Local Community

Membership Count: 240

204. TROUT UNLIMITED-FORKS OF THE DELAWARE CHAPTER 482

828 Cibby Street, Easton, Pennsylvania 18045

Contact: Tom Rumore / President

Phone: 610) 252-7301 ext. 3174

Phone 2: (610) 258-8341

Group Type: Conservation; Public Interest

E-Mail Address: TRUMORE@fast.net

Web Site: www.tu.org/newsstand/search_result.asp?rec_id=482

Publications: "Forks Forum" / Ten Times annually

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Wetlands; Environmental Education; Recycling; Local Land Use; Land Conservation; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Multi-state

Membership Count: 85

205. TROUT UNLIMITED – HOKENDAUQUA CHAPTER 535

3917 Shirley Drive, Schnecksville, Pennsylvania 18078-2643

Contact: Dale Steventon

Phone: 610-770-8643

Phone 2: 610-767-1213 Fax:

Group Type: Conservation

E-Mail Address: adms@enter.net

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Youth education programs; Outdoor Recreation; and River, Stream, or Watershed Protection.

206. TROUT UNLIMITED – LITTLE LEHIGH CHAPTER 070

444 Schantz Rd., Allentown, Pennsylvania 18104

Contact: Lincoln Parmer

Phone: 610-395-5119

Phone 2: 610-395-1606

Group Type: Conservation

E-Mail Address: jparmer@rcn.com

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Youth education programs; Outdoor Recreation; and River, Stream, or Watershed Protection.

207. TROUT UNLIMITED – MONOCACY CHAPTER 491

3119 Red Lawn Drive, Bethlehem, Pennsylvania 18017-1834

Contact: Steve Vanya

Phone: 610-691-8028

Phone 2: 610-691-1371

Group Type: Conservation; Public Interest

Email: van0087@enter.net

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Youth education programs; Outdoor Recreation; and River, Stream, or Watershed Protection.

210. TROUT UNLIMITED – SAUCON CREEK CHAPTER 724

140 Tumble Creek Road, Easton, Pennsylvania 18042

Contact: Andrew Cuttic

Phone: 610-559-5534

Phone 2: 908-429-4431 Fax: 908-203-1194

Group Type: Conservation

Email: andrew.cuttic@akerkvaerner.com

Website: www.sauconcreektu.org

Publications: Newsletter

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Youth education programs; Outdoor Recreation; and River, Stream, or Watershed Protection.

211. TROUT UNLIMITED-SCHUYLKILL COUNTY CHAPTER 537

403 Nichols Street, P.O. Box 1387, Pottsville, Pennsylvania 17901

Contact: Robert Brower / President

Phone: 570-622-9611 Fax: 570-622-9611

Group Type: Conservation

E-Mail Address: schuykilltu@hotmail.com

Publications: Newsletter / Monthly

Mission: To conserve, protect and restore North America's trout and salmon fisheries and their watersheds.

Issues: Wetlands; Air Pollution; Water Pollution; Oil & Gas Issues; Pollution Prevention; Mining Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; LLW Radioactive Waste; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation & Management; and River, Stream or Watershed Protection.

Region Served: Single County

Membership Count: 141

236. WILDLIFE INFORMATION CENTER

P.O. Box 198, Slatington, Pennsylvania 18080

Contact: Dan R. Kunkle / Executive Director

Phone: 610-760-8889 Fax: 610-760-8889

Group Type: Non-Profit Conservation

E-Mail Address: wildlife@fast.net

Web Site: www.wildlife.org

Publications: "Wildlife Activist" / Three times per year; "American Hawkwatcher" / Annually

Mission: To preserve wildlife and habitat through conservation, education, and research for the benefit of the earth and all its inhabitants.

2. CONSERVATION, PRESERVATION AND SANCTUARY ORGANIZATIONS

22. AQUASHICOLA/POHOPOCO WATERSHED CONSERVANCY

P.O. Box 360, Kresgeville, Pennsylvania 18333

Contact: Dominic Strohlein / President

Phone: 610-681-3959

Group Type: Citizen-based, volunteer organization

E-Mail Address: aquapoco@hotmail.com

Mission: Dedicated to the conservation, protection and improvement of our watershed resources.

Issues: Water Pollution; Recycling; Local Land Use; Land Conservation; Wetlands; Pollution; Pollution Prevention; Environmental Education; and River, Stream, or Watershed Protection.

Region Served: Carbon/Monroe counties

29. BERKS COUNTY CONSERVANCY

25 North 11th Street, Reading, Pennsylvania 19601

Contact: Verlin Renner, Jr. / Executive Director

Phone: 610-372-4992 Fax: 610-372-2917

Group Type: Public Interest; Advocacy; Advisory; Conservation

E-Mail Address: verlin@berks-conservancy.org

Web Site: www.berks-conservancy.org

Publications: "Conservancy News" Newsletter / Quarterly

Mission: To preserve the natural, history and agricultural resources of Berks County through effective land-use planning watershed improvements, farmland open space acquisition, and easement and historic site recognition and protection.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Land Conservation; Industrial Site Re-use; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Single County

Membership Count: 600+

56. DELAWARE HIGHLANDS CONSERVANCY

River Rd. – HC 1, Box 1926, Milanville, Pennsylvania 18443-9743

Contact: Barbara Yeaman / President

Phone: 570-729-7053 Fax: 570-729-7053

Group Type: Land Trust

E-Mail Address: byeaman@ezaccess.net

Web Site: www.rdz.acor.org/lists/sullcounty/landtrust

Publications: Newsletter / Quarterly

Mission: To acquire, protect and preserve, for the benefit of the general public, natural and scenic resources and provide education to further these goals.

Issues: Wetlands; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; Forestry Issues; Wildlife Conservation & Management; and River, Stream and Watershed Protection.

Region Served: Multi-State

Membership Count: 150

58. DELAWARE RIVER GREENWAY PARTNERSHIP

85 Old Dublin Pike, Doylestown, Pennsylvania 18901

Contact: Clifford C. David, Jr. / Executive Director

Phone: 215-345-7020 Fax: 215-345-4328

Publications: "Delaware River Greenway News" / Quarterly

Mission: To promote public and private stewardship of a regional greenway as a continuous corridor of natural, historic, scenic and recreational resources along the Delaware River and its tributaries.

64. EARTH CONSERVANCY

101 South Main Street, Ashley, Pennsylvania 18706

Contact: Michael A. Dziak / President and CEO

Phone: 570 823.3445 Fax: 570 823.8270

Group Type: Conservation; Non-Profit Organization

E-Mail Address: earthcon@intergrafix.net

Web Site: www.earthconservancy.org

Publications: Newsletter / Quarterly

Mission: Earth Conservancy is a non-profit organization committed to revitalizing abandoned lands into productive assets for the communities in which they lie. Planning for the most productive use and management of the land, over 10,000 acres of Earth Conservancy land will be committed for open spaces and recreational purposes.

69. ENVIRONMENTAL ACTION COMMITTEE

Box 200, Lenhartsville, Pennsylvania 19534

Contact: Mathew Polis / Chair

Phone: 610-756-6855 Fax: 610-756-6855

Group Type: Public Interest; Education; Advisory

E-Mail Address: faschn@fast.net

Mission: To protect and preserve wildlife habitat and to stop suburban sprawl.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; (LLW) Radioactive Waste; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Multi-state

Membership Count: 75

75. HAWK MOUNTAIN SANCTUARY ASSOCIATION

1700 Hawk Mountain Rd., Kempton, Pennsylvania 19529-9449

Contact: Cynthia Lenhart / Executive Director

Phone: 610-756-6961 Fax: 610-756-4468

Group Type: Conservation

E-Mail Address: info@hawkmountain.org

Web Site: www.hawkmountain.org

Publications: "Hawk Mountain News" / Bi-annually

Mission: To foster the conservation of raptors worldwide and to create a better understanding of the natural environment, particularly in the central Appalachian region.

Issues: Environmental Education and Wildlife Conservation and Management.

Region Served: Multi-state

Membership Count: 8,900

78. HERITAGE CONSERVANCY

85 Old Dublin Pike, Doylestown, Pennsylvania 18901

Contact: Clifford C. David Jr. / President

Phone: 215-345-7020 ext. 112 Fax: 215-345-4328

Group Type: Preservation

E-Mail Address: hconserv@heritageconservancy.org

Web Site: heritageconservancy.org

Publications: "Environs" / Quarterly

Mission: Heritage Conservancy is a non-profit organization dedicated to preserving our natural and historic heritage. Founded in 1958, it was concerned for the rapid loss of open space in Bucks County which led to the formation of the Bucks County Park Foundation, known today as Heritage Conservancy.

86. KITTATINNY RIDGE COALITION

Audubon Pennsylvania, 100 Wildwood Way, Harrisburg, PA 17110

Contact: Paul Zeph

Phone: 717-213-6880 ext. 18 Fax: 717-213-6883

E-Mail Address: pzeph@audubon.org

Web Site: <http://pa.audubon.org>

Mission Statement: Conserve and restore natural ecosystems in Pennsylvania, focusing on birds, other wildlife, and their habitats through science, education and advocacy, for the benefit of humanity and the earth's biological diversity.

Issues: Bird Habitat; Forest Health; Land Conservation; Greenways; and Watershed Protection.

88. LACAWAC SANCTUARY

R.R. 1, Box 518, Lake Ariel, Pennsylvania 18436

Contact: Janice Poppich / Director

Phone: 570-689-9494 Fax: 570-689-5299

Group Type: Public Interest; Environmental Education

E-Mail Address: director@lacawac.org

Web Site: www.lacawac.org

Publications: Newsletter / Quarterly

Mission: To preserve a unique glacial lake, and to provide a community center for education and a field station for environmental research.

Issues: Pollution Prevention; Environmental Education; Land Conservation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: State

93. LACKAWANNA VALLEY CONSERVANCY

P.O. Box 368, Scranton, Pennsylvania 18501

Contact: Bernard McGurl / Secretary

Phone: 570-876-6199 Fax: 570-207-7590

Group Type: Education; Conservation

E-Mail Address: lrn2@epix.net

Mission: To conserve, protect and manage natural, cultural and historic resources in the Lackawanna Valley and nearby areas of northeastern Pennsylvania.

Issues: Wetlands; Mining & Reclamation; Environmental Education; Local Land Use; Land Conservation; Industrial Site Re-use; Forestry Issues; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-County

125. MARITON WILDLIFE SANCTUARY AND WILDERNESS TRUST

240 Sunnyside Road, Easton, Pennsylvania 18042

Contact: Polly Ivenz / Program Director

Phone: 610-749-2379

Phone2: 610-749-0515 Fax:

E-Mail Address: pat@fieldtrip.com

Web Site: www.fieldtrip.com/pa/07492379.htm

Group Type: Conservation; Education

Publications: "Friends of Mariton Newsletter" / Bi-annually

Mission: To protect wildlife, preserve the land in as natural a state as possible, and provide a place for scientific study and educational programs.

Issues: Wetlands; Water; Environmental Education; Recycling; Land Conservation; Forestry Issues; and Wildlife Conservation and Management.

Region Served: Single County and muti-state

Membership Count:

140. NORTH BRANCH LAND TRUST

11 Carveton Rd., Trucksville, Pennsylvania 18708

Contact: Linda Thoma / Executive Director

Phone: 570.696.5545 Fax: 570.696.5546

Email: thoma@nb.lt.org

Web Site: www.nb.lt.org

Publications: "The Horizon"

Mission: A non-profit organization protecting and preserving lands of special natural and historic value, including farmland, wildland, forest, and open space.

177. PENNSYLVANIA RAPTOR & WILDLIFE ASSOCIATION, INC.

7 Allegheny Rd., Mt. Bethel, Pennsylvania 18343

Contact: Tom Nelson / Hope Anwyll / Co-Directors

Phone: 570-897-6659 Fax:

Group Type: Other

Publications: Newsletter / Bi-annually

Mission: To educate the public with regard to the current and future needs of wildlife for continued survival in our shared ecosystems.

Issues: Environmental Education and Wildlife Conservation and Management

Region Served: Multi-state

Membership Count:

182. POCONO NORTHEAST RESOURCE CONSERVATION & DEVELOPMENT COUNCIL

1300 Old Plank Rd., Mayfield, Pennsylvania 18433

Contact: Ron Phelps / Coordinator

Phone: 570-282-8732

Group Type: Publicly supported non-profit

Web Site: home.ptd.net/~pnercd

Mission: Develop selected natural and cultural resources of the region into economically viable and environmentally friendly enterprises. Conserve, improve, and protect the environment and natural resources of the Pocono Northeast. Develop the rural community while protecting and maintaining a desirable resource base.

Issues: Sustainable and Alternative Agriculture; Composting; Abandoned Mine Reclamation; Soil Health; Wood Products; Forestry; and Farmers Markets

194. SOUTHEASTERN PENNSYLVANIA RESOURCE CONSERVATION & DEVELOPMENT COUNCIL

824 Main Street, Pennsburg, PA 18073

Contact: John Metrick / Coordinator

Phone: 215-541-7930

E-Mail Address: chairman@separcd.org

Web Site: www.separcd.org

Mission: To create regional partnerships to deliver programs of land conservation, water management, community development and environmental enhancement in a predominantly mixed rural and urban land-use area, stressed by a rapid rate of change.

196. SOUTHERN WAYNE TRAIL RIDERS ASSOCIATION, INC.

P.O. Box 323, Greentown, Pennsylvania 18426

Contact: June Reed / Secretary

Group Type: Advocacy; Other

Publications: Newsletter / Monthly

Mission: *To promote equestrian trails within the Commonwealth and to maintain those in existence.*

Issues: *Environmental Education; Forestry; State-Owned Land; and Outdoor Recreation.*

Region Served: *Multi-County*

Membership Count: *135*

203. TREXLER-LEHIGH COUNTY GAME PRESERVE

5150 Game Preserve Road, Schnecksville, Pennsylvania 18078

Contact: *Tony Mazziotta / Director*

Phone: *610-799-4171 Fax: 610-799-4170*

E-Mail Address: *tonymazziotta@lehighcounty.org*

Web Site: *www.gamepreserve.org*

235. WILDLANDS CONSERVANCY, INC.

3701 Orchid Pl., Emmaus, Pennsylvania 18049-1637

Contact: *Thomas J. Kerr / President*

Phone: *610-965-4397*

Group Type: *Public Interest; Advocacy; Conservation*

E-Mail Address: *tkerr@wildlandspa.org*

Web Site: *www.wildlandspa.org*

Publications: *"Wildlands" / Bi-monthly*

Mission: *To preserve, protect, and enhance the land, water, ecological, and recreational resources of the region.*

Issues: *Wetlands; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Local Land Use; Land Conservation; Forestry Issues; State-Owned Land; Outdoor Recreation; Heritage Preservation; Wildlife Conservation & Management; and River, Stream or Watershed Protection.*

Region Served: *Multi-county*

Membership Count: *1,500*

3. CIVIC ORGANIZATIONS

32. BERKS RECYCLING COALITION

960 Old Mill Rd., Wyomissing, Pennsylvania 19610

Contact: *William Litvin / President*

Phone: *610-779-6960*

Group Type: *Public Interest*

Publications: *"About and About" / Quarterly*

Mission: *To encourage awareness of solid waste issues and action to make changes in what we buy, dispose of and daily environmental impact by promoting re-use and recycling of materials.*

Issues: *Pollution Prevention; Environmental Education; Recycling; Municipal Waste; and Hazardous Waste.*

Region Served: *Single county*

Membership Count: *50*

41. CARBON COUNTY GROUNDWATER GUARDIANS

P.O. Box 104, Palmerton, Pennsylvania 18071

Contact: Frank Waksmunski

Phone: 570-645-8597

Group Type: Non-Profit; Public Interest

E-Mail Address: grndwatr@aol.com

Web Site: www.webdesignpros.net/groundwater

Publications: "The Watering Whole"

Mission: The Carbon County Groundwater Guardians is a non-profit, volunteer organization dedicated to the conservation of groundwater resources in Carbon County, Pennsylvania. The Guardians advance good groundwater stewardship through their efforts to educate local residents on a variety of groundwater issues, endorse a county-wide recycling program for household hazardous waste, and encourage increased awareness and involvement of county residents by providing private well water testing at a reduced cost.

Issues: Conservation of groundwater resources.

70. FRIENDS OF THE DELAWARE CANAL

145 South Main Street, New Hope, Pennsylvania 18938

Contact: Susan Taylor

Phone: 215-862-2021 Fax: 215-862-2021

Group Type: Independent Non-Profit

E-Mail Address: fodc@erols.com

Web Site: www.fodc.org

Publications: "Friends of the Delaware Canal" Newsletter/ Quarterly

Mission: Working to restore, preserve, and improve the Delaware Canal and its surroundings. Our primary goals are to ensure that the Canal is fully-watered and the towpath trail is continuous.

Issues: Advocacy; Community Volunteerism; and Educational and Recreational Programs.

Region Served: Delaware Canal

74. GREEN VALLEY COALITION

P.O. Box 3407, Wescosville, Pennsylvania 18106

Contact: Diane Hill / President

Phone: 610-767-6335

Group Type: Non-Profit

Mission: Intelligent Land Use; Growth and Development of working land in agriculture and sustainable forestry; Preservation of natural areas important to biodiversity in the eco-region; Sustainability of communities, large and small, in the Lehigh Valley and its watersheds.

Issues: Environmental Education; Local Land Use; Sustainable Growth; Preservation; and Conservation.

85. KALMBACH MEMORIAL PARK

200 Cotton Street, Macungie, Pennsylvania 18062

Phone: 610-965-1140 Fax: 610-966-2017

Group Type: Community Interest

E-Mail Address: mail@KalmbachPark.com

Web Site: www.kalmbachpark.com

108. LEHIGH VALLEY LAND RECYCLING INITIATIVE

P.O. Box 21750, Lehigh Valley, Pennsylvania 18002

Contact: Chad Helmer / Director

Phone: 610-266-7179.

E-Mail: chelmer@lehighvalley.org

Web Site: www.lehighvalley.org/default.aspx?pageid=73

Mission: The Lehigh Valley Land Recycling Initiative (LVLRI) is a project of LVEDC and is focused on promoting economic development through the reuse of abandoned and under-utilized commercial and industrial properties, also known as brownfields.

Issues: Local Land Use; Land Conservation; Industrial Site Re-use.

Region Served: Lehigh Valley

114. LITTER CONTROL & BEAUTIFICATION PROGRAM OF MONROE COUNTY

38 N. 7th Street, Stroudsburg, Pennsylvania 18360

Contact: Jacquelyn A. Hakim / Coordinator

Phone: 570-420-3754

Phone 2: 570-420-3525 Fax: 570-420-3754

Group Type: Education; Advocacy

E-Mail Address: jahakim@ptd.net

Mission: To eliminate litter in Monroe County through the vigilant enforcement of litter laws, clean-up activities, and educational programs, in an effort to maintain a clean and beautiful Monroe County.

Issues: Environmental Education; Recycling; Municipal Waste; and Litter and Beautification.

Region Served: County

151. PALMERTON CITIZENS FOR A CLEAN ENVIRONMENT

P.O. Box 131, Aquashicola, Pennsylvania 18012

Contact: Louise Calvin / President

Phone: 610-826-3369 Fax:

Group Type: Public Interest

Publications: Newsletter / Bi-annually

Mission: To secure a U.S. EPA Superfund cleanup that will decontaminate the heavy metals at the site, educate the community about the risks and remedies available to residents and to make sure the responsible hazardous waste industry complies with all regulations.

Issues: Air Pollution; Environmental Education; and Hazardous Waste.

Region Served: Local Community

184. RETIRED & SENIOR VOLUNTEER PROGRAM (RSVP)

Senior Environment Corps, 800 Hausman Road, Allentown, Pennsylvania 18104

Contact: Brian Hartman

Phone: 610-391-8031 Fax: 610-391-8495

Group Type: Community Development

E-Mail Address: rsvpoflnc@enter.net

Web Site: www.seniorcorps.org

Publications: "National Service News" E-Newsletter

Mission: RSVP volunteers serve in a diverse range of non-profit organizations, public agencies, and faith-based groups. Among other activities, they mentor at-risk youth, organize neighborhood watch programs, test drinking water for contaminants, teach English to immigrants, and lend their business skills to community groups that provide critical social services.

Issues: Water Quality Monitoring; and River, Stream, or Watershed Protection.

b. County Agencies

1. COUNTY SOIL CONSERVATION DISTRICTS

30. BERKS COUNTY CONSERVATION DISTRICT

Berks County Ag Ctr. – P.O Box 520, Leesport, Pennsylvania 19533-0520

Contact: John Ravert / District Manager;

E-Mail Address: c-jravert@state.pa.us

Contact: Pamela Spayd / Watershed Manager

E-Mail Address: pspayd@countyofberks.com

Phone: 610-372-4657 Fax: 610-478-7058

Group Type: Government

Web Site: www.co.berks.pa.us/conservation/site/default.asp

Publications: Annual Report

Mission: To protect and conserve the natural resources within the county through various programs to educate the citizens.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Municipal Waste; Land Conservation; Forestry Issues; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Single county

34. BUCKS COUNTY CONSERVATION DISTRICT

924 Town Center, New Britain, Pennsylvania 18901

Contact: Frederick S. Groshens / District Manager

E-Mail Address: fredgroshens@bucksconservation.org

Phone: 215-345-7577 ext. 106 Fax: 215-345-7584

Contact: Gretchen Schatschneider / Watershed Specialist

Phone: 215-345-7577 ext. 106

E-Mail Address: gretchenschats@bucksconservation.org

Group Type: Government

Web Site: www.bucksconservation.org

Publications:

Mission: To protect and conserve the natural resources within the county, and provide for the wise use of these resources, while concentrating upon soil conservation and sediment pollution control.

Issues: Water Pollution; Pollution Prevention; Land Conservation; Local Land Use; Heritage Preservation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Community

38. CARBON COUNTY CONSERVATION DISTRICT

5664 Interchange Road, Lehighton, Pennsylvania 18235

Contact: James J. Clauser / District Manager

Phone: 610-377-4894 Fax: 610-377-5549

Group Type: Government

E-Mail Address: carboncd@ptd.net

Mission: To protect and conserve the natural resources within the county.

Issues: Wetlands; Air Pollution; Water Pollution; Oil & Gas Issues; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Single County

89. LACKAWANNA COUNTY CONSERVATION DISTRICT

1300 Old Plank Rd., Mayfield, Pennsylvania 18411

Contact: Ernest Keller / District Manager

E-Mail Address: keller@lccd.net

Contact: John William Clune / Watershed Specialist

E-Mail Address: jwclune@lccd.net

Phone: 570-281-9495 Fax: 570-281-9497

Group Type: Government

Web Site: www.lccd.net

Publications: Annual Report

Mission: To promote the wise use, protection and conservation of natural resources, soil and water.

Issues: Wetlands; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Land Conservation; Forestry Issues; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Single County

97. LEHIGH COUNTY CONSERVATION DISTRICT

Lehigh Agricultural Ctr., 4184 Dorney Park Rd., Ste. 102, Allentown, Pennsylvania 18104

Contact: Paul Sell / District Manager

E-Mail Address: paul-sell@pa.nacdnet.org

Phone: 610-391-9583 ext. 16 Fax: 610-391-1131

Contact: Rebecca Hayden / Watershed Specialist

Phone: 610-391-9583 ext. 18

E-Mail Address: rebecca-hayden@pa.nacdnet.org

Group Type: Government

Web Site: www.lehighconservation.org

Publications: "Conservationally Speaking" / Quarterly

Mission: To protect and conserve the natural resources within the county, focusing on soil and water resources through erosion and sedimentation pollution control.

Issues: Pollution Prevention and Environmental Education.

Region Served: Single County

121. LUZERNE COUNTY CONSERVATION DISTRICT

485 Smith Pond Rd., Shavertown, Pennsylvania 18708

Contact: Walter Chamberlain / District Manager

Phone: 570-674-7991 Fax: 570-674-7989

E-Mail Address: Info@LuzerneConservationDistrict.org

Contact: Josh Longmore / Watershed Specialist

Phone: 570-674-3412

E-Mail Address: jlongmore@epamr.org

Contact: Robert E. Hughes / Regional Coordinator Eastern PA Coalition for Abandoned Mine Reclamation

Phone: 570-674-7993 Fax: 570-674-7989

E-Mail Address: epcamr@ptd.net

Group Type: Government

Web Site: www.luzerneconservationdistrict.org/index.html

Publications:

Mission: To protect and conserve the natural resources of Luzerne County.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Single county

128. MONROE COUNTY CONSERVATION DISTRICT

8050 Running Valley Rd., Stroudsburg, Pennsylvania 18360-0917

Contact: Craig Todd / District Manager

Contact: Darryl Speicher / R.C.S./Watershed Specialist

Phone: 570-629-3060 Fax: 570-629-3063

Group Type: Government

E-Mail Address: monroecd@ptd.net

Web Site: www.mcconservation.org

Mission: To protect and conserve the natural resources within the county.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; and River, Stream or Watershed Protection.

Region Served: Single county

142. NORTHAMPTON COUNTY CONSERVATION DISTRICT

Gracedale Complex – Greystone Bldg., Nazareth, Pennsylvania 18064

Contact: Bruce Pysher / District Manager

Phone: 610-746-1971 Fax: 610-746-1926

E-Mail Address: northamptoncd@pa.nacdnet.org

Web Site: www.northampton.pacd.org

Mission: To protect, manage and conserve the natural resources within the county through soil conservation and soil and sedimentation pollution control.

Region Served: Single county

186. SCHUYLKILL COUNTY CONSERVATION DISTRICT

1206 Ag Center Dr., Pottsville, Pennsylvania 17963

Contact: Craig R. Morgan / District Manager

Phone: 570-622-3742 ext. 112

Contact: Ryan Koch / Watershed Specialist

Phone: 570-622-3742 ext. 122 Fax: 570-622-4009

Group Type: Government; Conservation

E-Mail Address: rkoch@co.schuylkill.pa.us

Web Site: www.co.schuylkill.pa.us/Offices/Conservation/conservation.asp

Publications: "Seedling" Newsletter / Quarterly

Mission: To protect and conserve the county's resources.

Issues: Wetlands; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Land Conservation; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Single County

230. WAYNE COUNTY CONSERVATION DISTRICT

Ag Service Ctr. – 470 Sunrise Ave., Honesdale, Pennsylvania 18431

Contact: Robert Muller Jr. / District Manager

Contact: Grant Turano / Watershed Specialist

Phone: 570-253-0930 Fax: 570-253-9741

Group Type: Conservation

E-Mail Address: waynecd@ptd.net

Web Site: www.co.wayne.pa.us/conservation.asp

Mission: For the cub scouts to value what they can do to make the earth a better and cleaner place.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Land Conservation; Forestry Issues; Hunting or Fishing; and River, Stream or Watershed Protection.

Region Served: Single County

Membership Count: 100

2. AGRICULTURAL LAND PRESERVATION PROGRAMS

1. AGRICULTURAL LAND PRESERVATION PROGRAM – BERKS COUNTY

Berks County Agricultural Center, 1238 County Welfare Road, P.O. Box 520
Leesport, Pennsylvania 19533

Contact: Tami Hildebrand

Phone: 610-378-1844

Group Type: Government; Conservation

E-Mail Address: thildebrand@countyofberks.com

2. AGRICULTURAL LAND PRESERVATION PROGRAM – BUCKS COUNTY

Bucks County Planning Commission, 1260 Almshouse Rd., Neshaminy Manor Complex
Doylestown, Pennsylvania 18901

Contact: Rich Harvey

Phone: 215-345-3409

Group Type: Government; Conservation

Email Address: rbharvey@co.bucks.pa.us

3. AGRICULTURAL LAND PRESERVATION PROGRAM – CARBON COUNTY

490 Ore Street, Suite 2, P.O. Box 219, Bowmanstown, Pennsylvania 18030

Contact: Duane Dellecker

Phone: 610-852-5111

Group Type: Government; Conservation

E-Mail Address: ccrecycl@ptd.net

4. AGRICULTURAL LAND PRESERVATION PROGRAM – LACKAWANNA COUNTY

Lackawanna Conservation District, 1300 Old Plank Road, Mayfield, Pennsylvania 18433

Contact: *Bill Lange*

Phone: 570-282-9495 *Fax:* 570-281-9497

5. AGRICULTURAL LAND PRESERVATION PROGRAM – LEHIGH COUNTY

Lehigh County Agriculture Center, Suite 102, 4184 Dorney Park Road

Allentown, Pennsylvania 18104-5728

Contact: *Jeff Zehr; Beverly Weaver*

Phone: 610-391-9583

Group Type: *Government; Conservation*

E-Mail Address: *jeff-zehr@pa.nacdnet.org; beverly-weaver@pa.nacdnet.org*

6. AGRICULTURAL LAND PRESERVATION PROGRAM – LUZERNE COUNTY

Luzerne County Planning Commission, Luzerne County Courthouse

200 N. River Street, Wilkes-Barre, Pennsylvania 18711

Contact: *Adrian Merolli / Director*

Phone: 570-825-1564

Group Type: *Government; Conservation*

E-Mail Address: *planzone@epics.net*

7. AGRICULTURAL LAND PRESERVATION PROGRAM – MONROE COUNTY

Monroe County Planning Commission, Administration Center

1 Quaker Plaza, Room 106, Stroudsburg, Pennsylvania 18360-2135

Contact: *Eric Bartolacci / Environmental Planner*

Phone: 570-517-3151

Group Type: *Government; Conservation*

E-Mail Address: *ebartolacci@co.monroe.pa.us*

8. AGRICULTURAL LAND PRESERVATION PROGRAM – NORTHAMPTON COUNTY

Gracedale Complex, Greystone Building, Nazareth, Pennsylvania 18064

Contact: *Maria Bentzoi / Land Preservation Administrator*

Phone: 610-746-1993 *Fax:* 610-746-1980

Group Type: *Government; Conservation*

E-Mail Address: *mbentzon@northamptoncounty.org*

9. AGRICULTURAL LAND PRESERVATION PROGRAM – SCHUYLKILL COUNTY

Schuylkill County Conservation District, 1206 Agriculture Center Drive

Pottsville, Pennsylvania 17901

Contact: *Ryan Koch / Watershed Specialist*

Phone: 570-622-3742 ext. 122 *Fax:* 570-622-4009

Group Type: *Government; Conservation*

E-Mail Address: *rkoch@co.schuylkill.pa.us*

10. AGRICULTURAL LAND PRESERVATION PROGRAM – WAYNE COUNTY

P.O. Box 134, Prompton, Pennsylvania 18456

Contact: Krista O'Dell

Phone: 570-253-8904

Group Type: Government; Conservation

**3. DEVELOPMENT COUNCILS, VISITOR BUREAUS, COUNTY PLANNING AND
ECONOMIC DEVELOPMENT GROUPS**

42. CARBON COUNTY PLANNING DEPARTMENT

P. O. Box 210, Jim Thorpe, PA 18229-0210

Contact: Fred Osifat / Director

Phone: 570-325-3671 Fax: 570-325-3303

E-Mail Address: cchompro@ptd.net

Web Site: www.carboncounty.com/planning.htm

Mission: Administers Community Development Block Grant (CDBG) Program for County and Five Entitlement Communities-Borough's of Jim Thorpe, Lehigh, Lansford, Palmerton, and Franklin Township. Administers County-Wide Housing Rehabilitation Program. Provides technical support to County Planning Commission-Reviews all Sub-division and Land Development Plans in County.

66. ECONOMIC DEVELOPMENT COUNCIL OF NORTHEASTERN PENNSYLVANIA

1151 Oak St., Pittston, Pennsylvania 18640-3795

Contact: Leonard Carlin / Regional Planner

Phone: 570-655-5581 Fax: 570-654-5137

Group Type: Public Interest; Advocacy; Advisory

E-Mail Address: edcnp@microserve.com

Web Site: <http://www.microserve.net/edcnp>

Publications: Newsletter / Quarterly & Annual Report

Mission: To act as a catalyst in diversifying the economy and quality of life in Northeastern Pennsylvania.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; (LLW) Radioactive Waste; Forestry Issues; Outdoor Recreation; Heritage Preservation; and River, Stream, or Watershed Protection.

Region Served: Multi-county

Membership Count: 1,000+

73. GREATER LEHIGH VALLEY CHAMBER OF COMMERCE

Corporate Office, PO Box 20812, Lehigh Valley, Pennsylvania 18002-0812

Contact: *T. Anthony Iannelli / President*

Phone: 610-841-4582:

Group Type: *Chamber of Commerce*

E-Mail Address: *tonyi@lehighvalleychamber.org*

Web Site: *www.lehighvalleychamber.org*

Mission: *Delivers value to our members through superior programs and services; Advocates advancing business interests; Unifies the business community to leverage regional resources and strengthen our collective voice; Creates opportunities for businesses to grow*

90. LACKAWANNA COUNTY RECYCLING & SOLID WASTE

3400 Boulevard Ave., Scranton, Pennsylvania 18512

Contact: *Joyce Hatala / Recycling and Solid Waste*

Phone: 570-963-6868 **Fax:** 570-963-6553

Group Type: *Government*

E-Mail Address: *lackswa@sunlink.net*

Web Site:

Publications:

Mission: *To promote responsible solid waste management, recycling and environmental concerns in Lackawanna County.*

Issues: *Environmental Education; Recycling; Local Land Use; and Municipal Waste.*

Region Served: *Single County*

105. LEHIGH VALLEY CONVENTION & VISITORS BUREAU

2200 Avenue A, Bethlehem, Pennsylvania 18017

Phone: 800-747-0561 **Fax:** 610-882-0343

Group Type: *Independent, non-profit corporation*

E-Mail Address: *geninfo@lehighvalleyppa.org*

Web Site: *www.lehighvalleyppa.org*

Publications: *Valley Map and Guide; Promotional Literature*

106. LEHIGH VALLEY ECONOMIC DEVELOPMENT CORPORATION

P.O. Box 21750, Lehigh Valley, Pennsylvania 18002

Contact: *Tammy Ferguson / Communications Director*

Phone: 610-266-6775 ext. 7682 **Fax:** 610-266-7623

Group Type: *Not-for-profit business and economic development agency*

E-Mail Address: *lvedc@lehighvalley.org*

Web Site: *www.lehighvalley.org*

Publications: *"at-a-glance" / Quarterly*

Mission: *The Lehigh Valley Economic Development Corporation will promote and foster economic prosperity in the Lehigh Valley.*

109. LEHIGH VALLEY PLANNING COMMISSION

961 Marcon Blvd., Ste. 310, Allentown, Pennsylvania 18103-2616

Contact: Frederic H. Brock / Assistant Director

Phone: 610-264-4544 Fax: 610-264-2616

Group Type: Government

E-Mail Address: lvpc@early.com

Publications: "LVPC Newsletter" / Bi-monthly

Mission: To promote the health, safety and general welfare of the two-county region in accordance with the provisions of the Pennsylvania Municipalities Planning Code.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Recycling; Local Land Use; Municipal Waste; Land Conservation; Industrial Site Re-use; Outdoor Recreation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-County

122. LUZERNE COUNTY CONVENTION & VISITORS BUREAU

56 Public Square, Wilkes-Barre, Pennsylvania 18701

Phone: 1-888-905-2872

Group Type: Information; Recreation

E-Mail Address: tournepa@tournepa.com

Web Site: www.tournepa.com

Publications: Promotional Literature

Mission: Nestled in the heart of Northeastern Pennsylvania, Luzerne County and the Greater Wilkes-Barre, Hazleton and Pittston areas offer visitors an area of natural beauty-with mountains, streams, lakes and valleys providing outdoor recreational opportunities year-round.

130. MONROE COUNTY PLANNING COMMISSION

1 Quaker Plaza, Rm 106, Stroudsburg, Pennsylvania 18360

Contact: Dave Albright / Open Space Coordinator

Phone: (570) 517-3100 Fax: (570) 420-3564

E-Mail: mcpc@co.monroe.pa.us

Web Site: www.monroe2020.org

Publications: Newsletter / Quarterly

Mission: The citizens of Monroe County will continue working together to sustain and improve our quality of life by ensuring that the county's natural environment, economic and cultural assets are within reach of all its people.

147. NORTHEAST PENNSYLVANIA CONVENTION & VISITORS BUREAU

99 Glenmaura National Boulevard, Scranton, Pennsylvania 18507

Contact: Tracy Barone / Executive Director

Phone: 570-963-6363 Fax: 570-963-6852

Group Type: Information; Recreation

E-Mail Address: info@visitnepa.org

Web Site: www.visitnepa.org

Publications: *Vacation Guides*

181. POCONO MOUNTAIN VACATION BUREAU

1004 Main Street, Stroudsburg, Pennsylvania 18360

Phone: 570-421-5791 **Fax:** 570-476-8959

Group Type: *Information; Recreation*

E-Mail Address: pocomts@poconos.org

Web Site: www.800poconos.com

Publications: *Vacation Guides*

Mission: *The Pocono Mountains Vacation Bureau, Inc. is to enhance the economic and environmental well-being of our region and members through the promotion of tourism and the comprehensive marketing of our destination.*

188. SCHUYLKILL COUNTY OFFICE OF SOLID WASTE MANAGEMENT

401 N. 2nd St., Pottsville, Pennsylvania 17901

Contact: *Wayne Brown / County Environmental Coordinator*

Phone: 570-628-1220 **Fax:** 570-628-1210

Group Type: *Government*

E-Mail Address: wbowen@ptd.net

Publications: *Newsletter /Quarterly*

Issues: *Wetlands; Water Pollution; Mining & Reclamation; Environmental Education; Recycling; Municipal Waste; (LLW) Radioactive Waste; Forestry Issues; Outdoor Recreation; Heritage Preservation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.*

Region Served: *Single County*

213. TWO RIVERS AREA CHAMBER OF COMMERCE

1 South 3rd Street, 9th Floor, Easton, Pennsylvania 18042

Contact: *Michael G Moorehead*

Phone: 610 253 -4211 **Fax:** 610 253-6114

Group Type: *Chamber of Commerce*

E-Mail Address: Tracc@eastonareachamber.org

Web Site: www.eastonareachamber.org

231. WAYNE COUNTY DEPARTMENT OF PLANNING

925 Court St., Honesdale, Pennsylvania 18431

Contact: *Edward J. Coar / Director*

Phone: 570-253-5970 **Fax:** 570-253-5432

Group Type: *Government*

Publications: *Annual Report*

Issues: *Local Land Use and Community Planning Agency.*

Region Served: *County*

4. PENN STATE COOPERATIVE EXTENSION OFFICES

152. PENN STATE COOPERATIVE EXTENSION OFFICE – BERKS COUNTY

Berks County Ag Center, P.O. Box 520 1238 County Welfare Rd., Leesport, Pennsylvania 19533

Contact: Richard S. Kauffman / County Extension Director

Phone: 610-378-1327 Fax: 610-378-7961

Email Address: BerksExt@psu.edu

Web Site: <http://berks.extension.psu.edu>

153. PENN STATE COOPERATIVE EXTENSION OFFICE – BUCKS COUNTY

Neshaminy Manor Center, 1282 Almshouse Rd., Doylestown, Pennsylvania 18901

Contact: Michael P. Fournier / County Extension Director

Phone: 215-345-3283 Fax: 215-343-1653

Email Address: BucksExt@psu.edu

Web Site: <http://bucks.extension.psu.edu>

154. PENN STATE COOPERATIVE EXTENSION OFFICE – CARBON COUNTY

P.O. Box 60, 4 Broadway, 3rd Floor, Jim Thorpe, Pennsylvania 18229

Contact: Paul A. Shealer / County Extension Director

Phone: 570-325-2788 Fax: 570-325-2805

Email Address: CarbonExt@psu.edu

Web Site: <http://carbon.extension.psu.edu>

155. PENN STATE COOPERATIVE EXTENSION OFFICE – LACKAWANNA COUNTY

200 Adams Ave., Lower Level, Scranton, Pennsylvania 18503-1695

Contact: Terry M. Schettini / County Extension Director

Phone: 570-963-6842 Fax: 570-963-6853

Email Address: LackawannaExt@psu.edu

Web Site: <http://lackawanna.extension.psu.edu>

156. PENN STATE COOPERATIVE EXTENSION OFFICE – LUZERNE COUNTY

16 Luzerne Ave., Suite 200, West Pittston, Pennsylvania 18643-2817

Contact: Christine A. Tomascik / County Extension Director

Phone: 570-825-1701 Fax: 570-825-1709

Email Address: luzerneExt@psu.edu

Web Site: <http://Luzerne.extension.psu.edu>

157. PENN STATE COOPERATIVE EXTENSION OFFICE – MONROE COUNTY

4499 Route 611, Stroudsburg, Pennsylvania 18360-9807

Contact: Dawn M. Olson / County Extension Director

Phone: 570-248-9618 Fax: 570-424-1984

Email Address: MonroeExt@psu.edu

Web Site: <http://monroe.extension.psu.edu>

158. PENN STATE COOPERATIVE EXTENSION OFFICE – NORTHAMPTON COUNTY

Greystone Building, Gracedale Complex, Nazareth, Pennsylvania 18064-9212

Contact: Phyllis Laufer / County Extension Director

Phone: 610-746-1970 Fax: 610-746-1973

Email Address: NorthamptonExt@psu.edu

Web Site: <http://northampton.extension.psu.edu>

159. PENN STATE COOPERATIVE EXTENSION OFFICE – SCHUYLKILL COUNTY

1202 Ag Center Drive, Pottsville, Pennsylvania 17901

Contact: Duane L. Stevenson / County Extension Director

Phone: 570-622-4225 Fax: 570-622-4481

Email Address: SchuylkillExt@psu.edu

Web Site: <http://schuylkill.extension.psu.edu>

160. PENN STATE COOPERATIVE EXTENSION OFFICE – WAYNE COUNTY

Courthouse, 925 Court Street, Honesdale, Pennsylvania 18341-1996

Contact: Peter T. Wulfhorst / County Extension Director

Phone: 570-253-5970 ext. 239 Fax: 570-253-9478

Email Address: WayneExt@psu.edu

Web Site: <http://wayne.extension.psu>

c. Federal and State Agencies;

1. FEDERAL AGENCIES

220. USDA/FARM SERVICE AGENCY – BERKS COUNTY

Berks County Service Center, 1238 County Welfare Road, P.O. Box 520
Leesport, Pennsylvania 19533-0520

Contact: Josephine Bodoock / County Executive Director

Phone: 610-371-4655 ext.2 Fax: 610-371-8640

Web Site: www.fsa.usda.gov/PA

221. USDA/FARM SERVICE AGENCY – BUCKS COUNTY

Bucks County Service Center, 530 W. Butler Ave., Chalfont, Pennsylvania 18914-3201

Contact: Darrell Tribue / County Executive Director

Phone: 215-822-5630 Fax: 215-997-6685

Web Site: <http://www.fsa.usda.gov/PA>

222. USDA/FARM SERVICE AGENCY – CARBON/MONROE COUNTY

Carbon/Monroe Service Center, 5664 Interchange Road, Lehighton, Pennsylvania 18235-5114

Contact: DanaDee Miller-Boyle / County Executive Director

Phone: 610-377-6143 Fax: 610-377-6665

Web Site: www.fsa.usda.gov/PA

223. USDA/FARM SERVICE AGENCY – LACKAWANNA/WAYNE/PIKE COUNTY

1300 Old Plank Road, Mayfield, Pennsylvania 18433

Contact: Elizabeth Kotkiewicz / County Executive Director

Phone: 570-282-8732 Fax: 570-281-5379

Web Site: www.fsa.usda.gov/PA

224. USDA/FARM SERVICE AGENCY – LEHIGH COUNTY

Lehigh County Service Center, 2211 Mack Boulevard, Allentown, Pennsylvania 18103-5623

Contact: Michael Macker / County Executive Director

Phone: 610-791-9810 Fax: 610-791-9820

Web Site: <http://www.fsa.usda.gov/PA>

225. USDA/FARM SERVICE AGENCY – LUZERNE COUNTY

Luzerne County Service Center, 911 West Main Street, Plymouth, Pennsylvania 18651-2799

Contact: DanaDee Miller Boyle / County Executive Director

Phone: 570-779-0645 Fax: 570-779-5714

Web Site: <http://www.fsa.usda.gov/PA>

226. USDA/FARM SERVICE AGENCY – NORTHAMPTON COUNTY

Northampton County Service Center, 1068 Bushkill Center Road
Nazareth, Pennsylvania 18064-9578

Contact: Michael Macker / County Executive Director

Phone: (610) 759-9570 ext 3 Fax: 610-759-0754

Web Site: <http://www.fsa.usda.gov/PA>

227. USDA/FARM SERVICE AGENCY – SCHUYLKILL COUNTY

Schuylkill County Service Center, 1104 Ag. Center Drive, Pottsville, Pennsylvania 17901

Contact: Terry Stehr / County Executive Director

Phone: 570-622-1312 ext. 3 Fax: 570-622-1593

Web Site: www.fsa.usda.gov/PA

216. U.S. ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection Agency, Ariel Rios Building, 1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Administrator: Michael O. Leavitt

Phone: 202-272-0167

Web Site: www.epa.gov

214. U.S. GEOLOGICAL SURVEY / HEADQUARTERS

John W. Powell Federal Building, 12201 Sunrise Valley Drive, Reston, Virginia 20192

Contact: Robert M Hirsch / Associate Director for Water

Phone: 703-648-5215

E-Mail Address: rhirsch@usgs.gov

Web Site: www.usgs.gov

Mission: USGS is a world leader in the natural sciences through our scientific excellence and responsiveness to society's needs. The USGS serves the Nation by providing reliable scientific information to: Describe and understand the Earth; Minimize loss of life and property from natural disasters; Manage water, biological, energy, and mineral resources; and Enhance and protect our quality of life.

219. U.S. ENVIRONMENTAL PROTECTION AGENCY REGION III

1650 Arch Street (3PM52), Philadelphia, Pennsylvania 19103-2029

Phone: 215-814-5000 **Fax:** 215-814-5103

Toll free: (800) 438-2474

Email: r3public@epa.gov

Web Site: www.epa.gov/region03

217. U.S. FISH AND WILDLIFE SERVICE

Eastern Pennsylvania Field Office, Tobyhanna Army Depot, P.O. Box H
11 Hap Arnold Blvd., Bldg. 1015, Tobyhanna, Pennsylvania 18466-0800

Contact: Anthony Tur / Office Contact; Jared Brandwein / Project Leader

Phone: 570-894-1275 **Fax:** 570-894-1281

E-Mail Address: FW5ES_EPFO@fws.gov

Web Site: northeast.fws.gov/index.html

2. STATE AGENCIES

71. GOVERNOR'S CENTER FOR LOCAL GOVERNMENT SERVICES/ NORTHEAST REGIONAL OFFICE

4184 Dorney Park Road, Suite 101, Allentown, Pennsylvania 18104

Contact: Joseph Krumsky

Phone: 610-530-5718 **Fax:** 610-530-5596

Web Site: www.inventpa.com

Group Type: Government

Mission: Be the principal advocate for local governments. Provide vital programs, services and training to local officials and municipal employees. Cut through red tape expeditiously to solve problems at the local level.

72. GOVERNOR'S CENTER FOR LOCAL GOVERNMENT SERVICES/STATE OFFICE

4th Floor, Commonwealth Keystone Building, 400 North Street
Harrisburg, Pennsylvania 17120-0225

Contact: Kenneth Klothen / Executive Director

Phone: 888-223-6837

Group Type: Government

E-Mail Address: ra-dcedclgs@state.pa.us

Web Site: www.inventpa.com

Mission: Be the principal advocate for local governments. Provide vital programs, services and training to local officials and municipal employees. Cut through red tape expeditiously to solve problems at the local level.

51. DCNR / DELAWARE CANAL STATE PARK

11 Lodi Hill Road, Upper Black Eddy, Pennsylvania 18972-9540

Contact: Ken Lewis / Manager

Phone: 610-982-5560 **Fax:**

Group Type: Government

E-Mail Address: delawarecanalstatepa.us

Web Site: www.dcnr.state.pa.us

Mission: DCNR maintains Pennsylvania's largest environmental education program, which includes staff and facilities at 56 state parks as well as staff from the bureaus of Forestry, Topographic & Geologic Survey, and Recreation & Conservation. DCNR staff provide a variety of educational, interpretive and technical assistance services, including teacher workshops and school programs like Watershed Education, Project Learning Tree, and Project WET.

52. DCNR / HICKORY RUN STATE PARK

RR 1 Box 81, White Haven, Pennsylvania 18661-9712

Contact: Manager

Phone: 570-443-0400

Group Type: Government

E-Mail Address: hickoryrunstatepa.us

Web Site: www.dcnr.state.pa.us

Mission: DCNR maintains Pennsylvania's largest environmental education program, which includes staff and facilities at 56 state parks as well as staff from the bureaus of Forestry, Topographic & Geologic Survey, and Recreation & Conservation. DCNR staff provide a variety of educational, interpretive and technical assistance services, including teacher workshops and school programs like Watershed Education, Project Learning Tree, and Project WET.

53. DCNR / LEHIGH GORGE STATE PARK

RR #1 Box 81, White Haven, Pennsylvania 18661

Contact: Kevin Fazzini / Manager

Phone: 570-443-0400

E-Mail Address: hickoryrunstatepa.us

Web Site: www.dcnr.state.pa.us/stateparks/parks/lehighgorge.asp

54. DCNR / JACOBSBURG ENVIRONMENTAL EDUCATION CENTER

835 Jacobsburg Rd., Wind Gap, Pennsylvania 18091

Contact: Bill Sweeney / Environmental Educator

Phone: 610-746-2801

Web Site: jacobsburgstatepa.us

Mission: The primary purpose of Pennsylvania State Parks is to provide opportunities for enjoying healthful outdoor recreation and serve as outdoor classrooms for environmental education.

162. PENNSYLVANIA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

P.O. Box 7202, Mechanicsburg, Pennsylvania 17050

Contact: Jarrold McCormick / President

E-Mail Address: paep@earthlink.net

Web Site: www.paep.org

Publications: Quarterly Newsletter

Mission: The mission of Pennsylvania Association of Environmental Professionals is to promote environmental education, research, planning, assessment, review, and management through the formation and operation of a nonpolitical multidisciplinary professional society.

164. PENNSYLVANIA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT (DCED)

400 North Street, 4th Floor, Commonwealth Keystone Building
Harrisburg, Pennsylvania 17120-0225

Contact: Office of the Secretary

Phone: 717-787-3003

Group Type: Government

E-Mail Address: ra-DCEDCS@state.pa.us

Web Site: www.inventpa.com

Mission: The mission of the Department of Community and Economic Development (DCED) is to foster opportunities for businesses and communities to succeed and thrive in a global economy, thereby enabling Pennsylvanians to achieve a superior quality of life.

165. PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES (DCNR) / STATE OFFICE

400 Market St. – P.O. Box 8767, Harrisburg, Pennsylvania 17105-8767

Contact: Director, Office of Environmental Education & Information

Phone: 717-787-2869 Fax: 717-772-9106

Group Type: Government

Web Site: www.dcnr.state.pa.us

Publications: The Resource / Monthly

Mission: DCNR maintains Pennsylvania's largest environmental education program, which includes staff and facilities at 56 state parks as well as staff from the bureaus of Forestry, Topographic & Geologic Survey, and Recreation & Conservation.

Issues: Environmental Education

Region Served: Mid-Atlantic Region

Membership Count: The Public

166. PENNSYLVANIA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES (DCNR) / NE REGIONAL OFFICE

201 Samters Building, 101 Penn Avenue, Scranton, PA 18503-2025

Contact: Michele Breslin / Recreation & Park Advisor

Phone: 570-963-4157 Fax: 570-963-3439

Group Type: Government

Web Site: www.dcnr.state.pa.us

Publications: *The Resource / Monthly*

Mission: DCNR maintains Pennsylvania's largest environmental education program, which includes staff and facilities at 56 state parks as well as staff from the bureaus of Forestry, Topographic & Geologic Survey, and Recreation & Conservation.

Issues: Environmental Education

Region Served: Mid-Atlantic Region

Membership Count: The Public

167. PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PA DEP)

P.O. Box 8775, Harrisburg, Pennsylvania 17105

Contact: Christopher Allen / Public Participation Coordinator

Phone: 717-787-9580 Fax: 717-783-8926

E-Mail Address: allen.christopher@dep.state.pa.us

Web Site: www.dep.state.pa.us

Publications: Multiple

Mission: The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water from pollution and to provide for the health and safety of its citizens through a cleaner environment. We will work as partners with individuals, organizations, governments and businesses to prevent pollution and restore our natural resources.

Issues: Wetlands; Air Pollution; Water Pollution; Oil & Gas Issues; Pollution Prevention; Mining Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; LLW Radioactive Waste; and River, Stream, or Watershed Protection.

Region Served: State

173. PENNSYLVANIA FISH & BOAT COMMISSION HEADQUARTERS

1601 Elmerton Avenue, P.O. Box 67000, Harrisburg, Pennsylvania 17106-7000

Contact: Teresa Erdman / Executive Secretary

Phone: 717-705-7801

Web-Site: www.fish.state.pa.us

173. PENNSYLVANIA FISH & BOAT COMMISSION NORTHEAST REGION

5565 Main Road, PO Box 88, Sweet Valley, Pennsylvania 18656

Contact: *Walt Dietz / Aquatic Resources Program Specialists (ARPS)*

Phone: 570-477-2206 Fax: 570-477-3221

E Mail Address: *Wdietz@State.Pa.Us*

Web Site: *www.fish.state.pa.us*

173. PENNSYLVANIA FISH & BOAT COMMISSION SOUTHEAST REGION

Brubaker Valley Road, Po Box 9, Elm, Pennsylvania 17521

Contact: *Carl Haensel / Aquatic Resources Program Specialists (ARPS)*

Phone: 717-626-9081 Fax: 717-626-0486

E-Mail Address: *chaenel@state.pa.us*

173. PENNSYLVANIA FISH & BOAT COMMISSION LAW ENFORCEMENT / WATERWAYS CONSERVATION OFFICER NORTHEAST REGION

5565 Main Road, PO Box 88, Sweet Valley, Pennsylvania 18656

Contact: *Sally Corl*

Phone: 570-477-5717 Fax: 570-477-3221

E-Mail Address: *scorl@state.pa.us*

Serves Counties: Bradford, Carbon, Columbia, Lackawanna, Luzerne, Monroe, Pike, Sullivan, Susquehanna, Wayne, Wyoming

173. PENNSYLVANIA FISH & BOAT COMMISSION LAW ENFORCEMENT/ WATERWAYS CONSERVATION OFFICER SOUTHEAST REGION

Brubaker Valley Road, Po Box 9, Elm, Pennsylvania 17521

Contact: *Jeffrey S. Bridi*

Phone: 717-626-0228 Fax: 717-626-0486

E-Mail Address: *jbridi@state.pa.us*

Serves Counties: *Berks, Bucks, Chester, Delaware, Lancaster, Lehigh, Montgomery, Northampton, Philadelphia, Schuylkill*

174. PENNSYLVANIA GAME COMMISSION HEADQUARTERS

2001 Elmerton Ave., Harrisburg, Pennsylvania 17110-9797

Contact: *Roland Bergner / Chief, Federal/State Coordination Division*

Phone: 717-787-9612 Fax: 717-787-6957

Group Type: *Government*

Web Site: *www.pgc.state.pa.us*

Mission: *To protect, conserve and manage the diversity of wildlife and their habitats; to provide wildlife-related education, services and recreational opportunities for both consumptive and non-consumptive uses of wildlife; and to maintain and promote Pennsylvania's hunting and trapping heritage.*

Issues: *Hunting or Fishing; Outdoor Recreation; and Wildlife Conservation Management.*

Region Served: *State*

174. SOUTHEAST REGION

P.O. Box 516, Fogelsville, Pennsylvania 18051

Contact: David E. Mitchell / Land Management Supervisor

Phone: 610-285-2460 (h) 610-285-6434 (w)

175. PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

300 North St., Harrisburg, Pennsylvania 17120

Contact: John C. Wesley / Interim Executive Director

Phone: 717-787-2891 Fax: 717-783-9924

Web Site: www.phmc.state.pa.us

Mission: The Pennsylvania Historical and Museum commission was created by Act No. 446, approved June 6, 1945, amending the Administrative Code to consolidate the functions of the Pennsylvania Historical Commission, The State Museum and the State Archives.

179. PENNSYLVANIA STATE ASSOCIATION OF TOWNSHIP SUPERVISORS

4855 Woodland Drive, Enola, Pennsylvania 17025

Contact: Keith R. Hite / Executive Director

Phone: 717-763-0930 Fax: 717-763-9732

E-Mail Address: psatsweb@psats.org

Web Site: www.psats.org

Mission: The mission of the Pennsylvania State Association of Township Supervisors is to preserve and strengthen township government and to secure greater visibility and involvement for townships in the state and federal political arenas.

D. CITIZEN ENVIRONMENTAL ADVISORY COMMITTEES

12. ALBURTIS BOROUGH ENVIRONMENTAL ADVISORY COUNCIL

260 Franklin St. PO Box 435, Alburtis, Pennsylvania 18011

Contact: Dave Kuczur

Phone: 610-966-4777 Fax: 610-965-5517

Group Type: Community Advisory Panel

E-Mail Address: office@alburtis.org

Web Site: www.alburtis.org

31. BERKS COUNTY ENVIRONMENTAL ORGANIZATION NETWORK

Berks County Agricultural Ctr., P.O. Box 520, Leesport, Pennsylvania 19533

Contact: John Ravert / County Environmental Office

Phone: 610-374-0129 Fax: 610-478-7058

Group Type: Environmental Education

Mission: *To promote environmental awareness by providing a forum for the exchange of information and through coordination and sponsorship of planned activities.*

Issues: *Advisory; and Environmental Education.*

Region Served: *Single county*

Membership Count: *15 organizations*

36. BUSHKILL TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

1114 Bushkill Center, Nazareth, Pennsylvania 18064

Contact: *Jason Smith, EAC Chair*

Phone: *610-759-1250*

Group Type: *Community Advisory Panel*

E-Mail Address: *jsmith@fxbrowne.com*

Web Site: *bushkilltownship.com*

39. CARBON COUNTY ENVIRONMENTAL ADVISORY COUNCIL

Court House Annex, Jim Thorpe, Pennsylvania 18229-0129

Contact: *Daunt Delrecker / Planning Officer*

Phone: *570-325-3611*

Group Type: *Environmental Advisory Council*

49. COOLBAUGH TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

5550 Memorial Boulevard, Tobyhanna, Pennsylvania 18466

Contact: *Dan Ferguson, Chair*

Phone: *570-894-8490*

Group Type: *Community Advisory Panel*

E-Mail Address: *coolbaugh@ezaccess.net*

Web Site: *www.coolbaughtwp.org*

50. COOPERSBURG ENVIRONMENTAL COMMITTEE

5 N. Main St., Coopersburg, Pennsylvania 18036

Contact: *Dennis M. Balascak / Borough Councilman*

Phone: *610-282-3307 Fax: 610-252-4668*

Group Type: *Government*

E-Mail Address: *coopersburg@enter.net*

Mission: *To protect our borough from all forms of pollution; to enhance our park and recreation lands and to conserve wildlife.*

Issues: *Pollution Prevention; Recycling; Local Land Use; Hazardous Waste; Outdoor Recreation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.*

Region Served: *Local Community*

Membership Count:

77. HEIDELBERG TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

6825 Phillips Road, Germansville, Pennsylvania 18053

Contact: Allison C. Moreland

Phone: 610-767-6188

Group Type: Community Advisory Panel

E-Mail Address: Allison_C_Moreland@knoll.com

118. LOWER NAZARETH TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

406 Manor Dr., Nazareth, Pennsylvania 18064

Contact: Joan Garrett / Chairperson

Phone: 610-746-0893

Group Type: Environmental Advisory Council

E-Mail Address: JTGARR@email.msn.com

Region Served: Local Community

119. LOWER SAUCON TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

3700 Old Philadelphia Pike, Bethlehem, Pennsylvania 18015

Contact: Glenn Kern

Phone: 610-865-3291 Fax: 610-867-3580

Group Type: Community Advisory Panel

Web Site: www.lowersaucontownship.org

139. NAZARETH ENVIRONMENTAL COUNCIL

Nazareth Borough Hall, Church and Center St., Nazareth, Pennsylvania 18064

Contact: Paul Kokolus / Secretary

Phone: 610-759-0202

Group Type: Environmental Advisory Council

143. NORTHAMPTON COUNTY ENVIRONMENTAL ADVISORY COUNCIL

669 Washington St., Easton, Pennsylvania 18042-7475

Contact: Frank E. Flisser / Chief Clerk

Phone: 610-559-3195

Group Type: Environmental Advisory Council

149. PALMER TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

2635 Spring Garden Street, Palmer, Pennsylvania 18045

Contact: Rob Reese/Tom Ganssle, Co-Chair

Phone: 610-253-7191 Fax: 610-253-9957

Group Type: Community Advisory Panel

E-Mail Address: tganssle@earthlink.net

Web Site: www.greenworks.tv/eac/index.asp

150. PALMER TOWNSHIP ENVIRONMENTAL STEERING COMMITTEE

3 Weller Pl., Palmer, Pennsylvania 18045

Contact: Robin Reese / Chairman

Phone: 610-253-7191 Fax: 610-253-9957

Web Site: www.palmertwp.com

Group Type: Government; Community Advisory Panel

Issues: Pollution Prevention; Environmental Education; Recycling; and Municipal Waste.

Region Served: Local Community

Membership Count: 15

185. RUSH TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

RD1 Box 1326, 104 Mahanoy Avenue, Tamaqua, Pennsylvania 18252

Contact: Bruce Schimpf, Chair

Phone: 570-668-2938 Fax: 570-668-3129

Group Type: Community Advisory Panel

Email Address: schimpf@barnesville.pa.net

187. SCHUYLKILL COUNTY ENVIRONMENTAL ADVISORY COUNCIL

401 N. 2nd St., Pottsville, Pennsylvania 17901-1210

Contact: Wayne Bowen / County Environmental Coordinator

Phone: 570-628-1204 Fax: 570-628-1210

Group Type: Environmental Advisory Group

195. SOUTH WHITEHALL TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

444 Walbert Ave., Allentown, Pennsylvania 18104

Contact: Barry Search / Chairman

Phone: 610-398-0337

Group Type: Environmental Advisory Council

197. STERLING TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

PO Box 100, Sterling, Pennsylvania 18463

Phone Number: 570-689-2911

Group Type: Community Advisory Panel

218. UPPER SAUCON ENVIRONMENTAL ADVISORY COUNCIL

5500 Camp Meeting Rd., Center Valley, Pennsylvania 18034

Contact: Charles V. Ruppert / Supervisor of Plan & Development

Phone: 610-282-1171 Fax: 610-282-3557

Group Type: Environmental Advisory Council

233. WEISENBERG TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

7923 Holbens Valley Rd., New Tripoli, Pennsylvania 18066

Contact: *Dianne Mathews-Gehring / Raymond C. Rosenberger*

Phone: 610-298-2352

Group Type: *Environmental Advisory Council*

234. WHITEHALL TOWNSHIP ENVIRONMENTAL ADVISORY COUNCIL

3219 MacArthur Rd, Whitehall, Pennsylvania 18052

Contact: *Bill Car / Chairperson*

Phone: 610-437-5524

Group Type: *Environmental Advisory Council*

E-Mail Address: *dwott@enter.net*

E. REGIONAL CONSERVATION ORGANIZATIONS

17. AMERICAN FARMLAND TRUST – NEW ENGLAND FIELD OFFICE

1 Short Street, Suite 2, Northampton, Massachusetts 01060-3952

Contact: *Cris Coffin / New England Policy Manager*

Phone: 413-586-9330 ext 29 Fax: 413-586-9332

Email Address: *ccoffin@farmland.org*

18. AMERICAN RIVERS

1025 Vermont Ave., N.W. Suite 720, Washington, DC 20005-3516

Contact: *Kristen N. McDonald*

Phone: 202-347-7550 ext. 3020 Fax: 202-347-9240

Group Type: *Non-Profit Conservation Organization*

E-Mail Address: *kmcdonald@amrivers.org*

Web Site: *www.amrivers.org*

Publications: *"River Currents" / Weekly Newsletter*

Mission: *Conservation organization dedicated to protecting and restoring rivers nationwide.*

Issues: *River Restoration; Advocacy; and River, Stream or Watershed Protection.*

Region Served: *National*

19. APPALACHIAN MOUNTAIN CLUB (AMC) / DELAWARE VALLEY CHAPTER

104 Gaither Drive, Mt. Laurel, New Jersey 08054

Contact: *Mr. Chris Rapacki / Chapter Chair*

E-Mail Address: *chair@amcdv.org*

Web Site: *www.amcdv.org*

Publications: *Appalachian Footnotes / Quarterly*

Mission: *Founded in 1876, the Appalachian Mountain Club is America's oldest conservation and recreation organization. Our members actively enjoy, appreciate, and protect the mountains, rivers, and trails of America's Northeast...*

20. APPALACHIAN MOUNTAIN CLUB (AMC) / MAIN OFFICE

5 Joy Street, Boston, Massachusetts 02108

Contact: Friendly, knowledgeable staff

Phone: 617-523-0636 Fax: 617-523-0722

Group Type: Conservation; Recreation

E-Mail Address: information@outdoors.org.

Web Site: www.outdoors.org

Mission: Founded in 1876, the Appalachian Mountain Club is America's oldest conservation and recreation organization. We promote the protection, enjoyment, and wise use of the mountains, rivers, and trails of the Appalachian region.

21. APPALACHIAN TRAIL CONFERENCE

P.O. Box 807, Harpers Ferry, West Virginia 25425-0807

Phone: 304-535-6331 Fax: 304-535-2667

Group Type: Non-Profit; Preservation

Email Address: info@appalachiantrail.org

Web Site: www.appalachiantrail.org

Publications: "Appalachian Trailway News" (ATN) / Quarterly

Mission: The Appalachian Trail Conference (ATC) is a volunteer-based, private, non-profit organization dedicated to the preservation, management, and promotion of the Appalachian Trail as a primitive setting for outdoor recreation (on foot) and for learning.

37. CANAAN VALLEY INSTITUTE (CVI)

650 Leonard Street, Clearfield, Pennsylvania 16830

Contact: Janie French / State Coordinator

Phone: 888-549-7640 Fax: 814-768-9587

Group Type: Community Planning and Sustainability; Professional Organization

E-Mail Address: Janie.french@canaanvi.org

Web Site: www.canaanvi.org

Mission: Since 1995, The Canaan Valley Institute (CVI) has been fostering local decision making in support of sustainable communities in the Mid-Atlantic Highlands. Canaan Valley Institute is a dedicated and diverse team of scientists, landscape ecologists, economists and business professionals, watershed resources specialists, geographic information systems analysts, software developers, community and program developers, grant writers, and a highly skilled support staff, all working for the sustainability of communities in the Mid-Atlantic Highlands.

Issues: GIS; Local Land Use; and Land Conservation.

44. CENTER FOR WATERSHED PROTECTION

8390 Main Street, 2nd floor, Ellicott City, Maryland 21043

Contact: Anne Kitchell / Watershed Planner

Phone: 410-461-8323 Fax: 410-461-8324

E-Mail Address: ack@cwpa.org

Web Site: www.cwpa.org

Mission: provides local governments, activists, and watershed organizations around the country with the technical tools for protecting some of the nation's most precious natural resources: our streams, lakes and rivers. The Center has developed and disseminated a multi-disciplinary strategy to watershed protection

Issues: Watershed planning, Watershed Restoration, Stormwater Management, Watershed Research, Better Site Design, Education and Outreach, and Watershed Training

48. CONSERVATION FUND

105 North Front Street, Harrisburg, Pennsylvania 17101

Contact: Todd McNew

Phone: 717-230-8166 Fax: 717-230-8167

Group Type: Conservation

Email Address: bwilliams@atconf.org

Web Site: www.conservationfund.org

Publications: "Common Ground" / Quarterly

Mission: The Conservation Fund forges partnerships to preserve our nation's outdoor heritage -- America's legacy of wildlife habitat, working landscapes and community open-space.

57. DELAWARE RIVER BASIN COMMISSION (DRBC) PENNSYLVANIA COMMISSION WATER PLANNING OFFICE

P.O. Box 2063, 400 Market Street, 15th Floor, Harrisburg, PA 17105-2063

Contact: John Hines / Executive Director

Phone: 717-772-4785 Fax: 717-783-4690

Email: johines@state.pa.us

Web Site: www.dep.state.pa.us/river/river_basin.htm

Mission: The Commission will be the leader in protecting, enhancing, and developing the water resources of the Delaware River Basin for present and future generations.

60. DELAWARE RIVERKEEPER NETWORK

Main Office, P.O. Box 326, Washington Crossing, Pennsylvania 18977-0326

Contact: Maya K. Van Rossum / Executive Director

Phone: 609-397-4410 (executive director); 215-369-1188 Fax: 215-369-1181 (main office)

Group Type: Advocacy; Conservation

E-Mail Address: maya@comcat.com (executive director); drkn@delawareriverkeeper.org (main office)

Web Site: www.delawariverkeeper.org

Publications: "River Rapids" / Quarterly

Mission: The Delaware Riverkeeper Network is a non-profit, membership organization that has worked since 1988 to strengthen citizen protection of the Delaware River and its tributary watersheds. An affiliate of the American Littoral Society, a national conservation group, Riverkeeper works throughout the Delaware's entire 13,000 square-mile watershed which includes portions of N.Y., N.J., Pa. and De.

Issues: Public Interest; and River, Stream or Watershed Protection.

62. DUCKS UNLIMITED, INC.

RR 2 Box 337, Thompson, Pennsylvania 18465

Contact: Scott Reinhart – Program Biologist

Phone: 570-727-2537

Web Site: www.ducks.org

Publications: "Ducks Unlimited" Magazine / Bi-monthly

Mission: Ducks Unlimited conserves, restores, and manages wetlands and associated habitats for North America's waterfowl. These habitats also benefit other wildlife and people.

79. HIGHLANDS COALITION

P.O. Box 118, Titusville, New Jersey 08560

Contact: Dawn Serra – Program Assistant

Phone: 609-737-7263 Fax: 609-737-7264

Group Type: Conservation; Land Stewardship

Email Address: highlandsco@earthlink.net

Web Site: www.highlandscoalition.org

Publications: "High Ground" / Quarterly

Mission: The more than two-million-acre Highlands region provides a green buffer, providing clean drinking water, vital open spaces and abundant outdoor recreation opportunities to some 25 million people who live within an hour of this nationally significant and threatened region.

130A. MONTGOMERY COUNTY LAND TRUST

P.O. Box 300, Lederach, Pennsylvania 19450

Phone: 215-513-0100 Fax: 215-513-0150

Group Type: Non-Profit

Email: dflaharty@mclt.com

Web Site: www.mclt.com

Publications: "Open Spaces"

Mission: The mission of Montgomery County Lands Trust is to permanently preserve land and to foster the wise stewardship of open space in our county.

200. THE CENTER FOR RURAL PENNSYLVANIA

200 N. Third St., Suite 600, Harrisburg, PA 17101

Contact: Barry L. Denk / Director

Phone: 717-787-9555 Fax: 717-772-3587

E-Mail Address: info@ruralpa.org

Web Site: www.ruralpa.org

Mission: The Center for Rural Pennsylvania is a bipartisan, bicameral legislative agency that serves as a resource for rural policy within the Pennsylvania General Assembly. The Center works with executive agencies and federal, regional and community organizations to maximize resources and strategies that can better serve the needs of Pennsylvania's 2.8 million rural residents.

137. THE NATURE CONSERVANCY, PENNSYLVANIA CHAPTER – HEADQUARTERS

500 North 3rd Street, 6th Floor, Harrisburg, Pennsylvania 17101

Contact: Ron Ramsey / Director of Government Relations

Phone: 717-232-6001 Fax: 717 232-6061

Web Site: www.nature.org/pennsylvania

Publications: "Nature Conservancy" Magazine / Every three months

Mission: To preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive.

138. THE NATURE CONSERVANCY, PENNSYLVANIA CHAPTER – NORTHEASTERN PENNSYLVANIA FIELD OFFICE

PO Box 55, Long Pond Road, Long Pond, Pennsylvania 18334

Contact: Ralph 'Bud' Cook

Phone: 570-643-7922 Fax: 570-643-7925

Web Site: www.nature.org

Mission: To preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive.

133. NORTHAMPTON – LEHIGH – CARBON OUTDOOR SPORTSMEN ASSOCIATION

P.O. Box 302, Northampton, PA 18067

Contact: Club Secretary

Phone: 610-760-9650

E-Mail Address: rick@nlcosa.com

Web Site: www.nlcosa.com

Publications: Quarterly Newsletter

Mission: Northampton – Lehigh – Carbon (NLC) Outdoor Sportsman Association was founded in 1999 to raise money for stocking trout in the Lehigh River and pheasants on surrounding game lands. NLC Outdoor Sportsman Association has been involved with trout and pheasant raising and stocking as well as general outdoor conservation projects. NLC Outdoor Sportsman Association is a 501 [c] [3] certified non-profit organization which relies on raffles, donations, and weekly ticket sales to fund our stockings

136. NATURAL LANDS TRUST

1031 Palmers Mill Rd., Media, Pennsylvania 19063

Contact: *Oliver P. Bass / Director of Development & Communications*

Phone: 610-353-5587 *Fax:* 610-353-0517

Group Type: *Non-Profit*

Email Address: *obass@natlands.org*

Web Site: *www.natlands.org*

Publications: *"Natural Lands"*

Mission: *Natural Lands Trust, a non-profit regional land trust, has been working with our region's communities to protect these vital resources since 1953. Through acquisition, conservation easements, planning and education, we work with others to ensure that our natural and cultural resources are here for future generations.*

146. NORTHAMPTON GREENWAY PARTNERSHIP

Northampton Middle School, 1617 Laubach Ave., Northampton, Pennsylvania 18067

Contact: *John Mauser*

Phone: 610-262-7817

169. PENNSYLVANIA ENVIRONMENTAL COUNCIL – HEADQUARTERS / PHILADELPHIA COUNTY

117 South 17th Street, Suite 230, Philadelphia, Pennsylvania 19103-5022

Contact: *Brian Hill / Senior Vice President for Watersheds*

Phone: 215-563-0250 *Fax:* 215-563-0528

Email: *bhill@pecpa.org / pecphila@libertynet.org*

Web Site: *www.pecpa.org*

Publications: *"Great Places with Transit"*

Mission: *The Pennsylvania Environmental Council improves quality of life for all Pennsylvanians by enhancing the Commonwealth's natural and built environments by integrating advocacy, education and implementation of community and regional action projects.*

168. PENNSYLVANIA ENVIRONMENTAL COUNCIL-NORTHEAST REGIONAL OFFICE

175 Main St., Luzerne, Pennsylvania 18709

Contact: *Ellen M. Ferretti / Director*

Phone: 570-718-6507 *Fax:* 570-718-6508

Group Type: *Advocacy; Advisory; Education; Conservation*

E-Mail Address: *ellen@pecnepa.org*

Web Site: *www.libertynet.org/pecphila*

Mission: *The Pennsylvania Environmental Council improves quality of life for all Pennsylvanians by enhancing the Commonwealth's natural & build environments by integrating advocacy, education & implementation of community & regional action projects.*

Issues: *Wetlands; Water Pollution; Pollution Prevention; Mining Reclamation; Environmental Education; Recycling; Local Land Use; Land Conservation; Industrial Site Re-use; Outdoor Recreation; and River, Stream or Watershed Protection.*

172. PENNSYLVANIA FEDERATION OF SPORTSMAN CLUBS / STATE OFFICE

2426 North Second Street, Harrisburg, Pennsylvania 17110

Contact: Melody Zullinger / Executive Director

Phone: 717-232-3480 Fax: 717-231-3524

Group Type: Sportsman Organization; Advocacy

E-Mail Address: info@pfsc.org

Web-Site: www.pfsc.org

Publicaitons: "On Target" Newsletter

Mission: The mission of The Pennsylvania Federation Of Sportsmen's Clubs Inc. is to provide a statewide, united voice for the concerns of all sportsmen and conservationists; to insure their rights and interests are protected, and to protect and enhance the environment and our natural resources.

171. PENNSYLVANIA FEDERATION OF SPORTSMAN CLUBS / SOUTHEAST CHAPTER

1363 N. Cottonwood, Danielsville, Pennsylvania 18038

Contact: Lee Marsh

Phone: 610-767-7543

Web Site: www.pfsc.org

Group Type: Sportsman Organization; Advocacy

Counties Served: Berks, Bucks, Chester, Delaware, Lehigh, Montgomery, Northampton, Philadelphia, Schuylkill

Mission: The mission of The Pennsylvania Federation Of Sportsmen's Clubs Inc. is to provide a statewide, united voice for the concerns of all sportsmen and conservationists; to insure their rights and interests are protected, and to protect and enhance the environment and our natural resources.

170. PENNSYLVANIA FEDERATION OF SPORTSMAN CLUBS / NORTHEAST CHAPTER

32 Valley View Dr., Pringle, Pennsylvania 18704

Contact: Gerard Schutz

Phone: 570-288-2931

Web Site: www.pfsc.org

Group Type: Sportsman Organization; Advocacy

Counties Served: Carbon, Lackawanna, Luzerne, Monroe, Pike, Susquehanna, Wayne, Wyoming

Mission: The mission of The Pennsylvania Federation Of Sportsmen's Clubs Inc. is to provide a statewide, united voice for the concerns of all sportsmen and conservationists; to insure their rights and interests are protected, and to protect and enhance the environment and our natural resources.

176. PENNSYLVANIA ORGANIZATION FOR WATERSHED AND RIVERS (POWR)

610 North Third St., Harrisburg, PA 17101

Contact: *Judith Jordan, Executive Director*

Phone: 717-234-7910 Fax: 717-234-7929

E-Mail Address: *info@pawatersheds.org*

Group Type: Non-Profit

Web Site: *www.pawatersheds.org*

Mission: *POWR advocates for the protection, restoration and enjoyment of our common wealth of water resources, and conducts programs that foster stewardship, communication, leadership and action.*

178. PENNSYLVANIA SPATIAL DATA ACCESS (PASDA)

117 Land & Water Research Bldg, Penn State University, University Park, Pennsylvania 16802

Contact: *Maurie Caitlin Kelly / PASDA Coordinator*

Phone: 814-863-0104

E-Mail Address: *mck4@psu.edu*

Contact: *James Spayd / Watershed & Conservation Resources Coordinator & Developer; Metadata Specialist*

E-Mail Address: *pasda@psu.edu.*

Web Site: *www.pasda.psu.edu*

Mission: *The Pennsylvania Spatial Data Access system (PASDA) is Pennsylvania's official geospatial information clearinghouse and the Commonwealth's node on the National Spatial Data Infrastructure (NSDI). The PASDA clearinghouse provides for the widespread sharing of geospatial data, eliminates the creation of redundant data sets, and serves as a resource for locating data throughout the Commonwealth through its data storage, interactive mapping/webgis applications, and metadata/documentation efforts.*

180. POCONO HERITAGE LAND TRUST

P.O. Box 292, Bartonsville, Pennsylvania 18321

Phone: 570-646-8448

Email: *poconoheritage@yahoo.com*

183. RAILS TO TRAILS CONSERVANCY

105 Locust St., Harrisburg, Pennsylvania 17101

Contact: *Tom Sexton / Director*

Phone: 717.238.1717 Fax: 717-238-7566

Email: *tsexton@transact.org*

Web Site: *www.railtrails.com*

Publications: *"Rails to Trails" Magazine / Quarterly*

Mission: *The purpose of Rails-to-Trails Conservancy (RTC) is to enrich America's communities and countryside by creating a nationwide network of public trails from former rail lines and connecting corridors.*

198. STROUD WATER RESEARCH CENTER

970 Spencer Road, Avondale, Pennsylvania 19311

Contact: James V. McGonigle

Phone: 610-268-2153 Fax: 610-268-0490

E-Mail Address: jmcgonigle@stroudcenter.org

Web Site: www.Stroudcenter.org

Publications: "Upstream", Spring and Fall

Mission: To advance knowledge of stream and river ecosystems through interdisciplinary research; to develop and communicate new ecological ideas; to provide solutions for water resource problems worldwide; and to promote public understanding of fresh water ecology through education programs, conservation leadership and professional service.

208. TROUT UNLIMITED – NATIONAL OFFICE

1500 Wilson Blvd., #310, Arlington, Virginia 22209-2404

Contact: Charles Gauvin / President and Chief Executive Officer

Phone: (800) 834-2419 Fax: 703-284-9400

E-Mail Address: trout@tu.org

Web Site: www.tu.org

209. TROUT UNLIMITED – PA COUNCIL

RD #2, Box 520, Greensburg, Pennsylvania 15601

Contact: George M. Mellinger / President

Phone: 724-423-8428 Fax: 724-423-3728

E-Mail Address: president@patrout.org

Web Site: www.patrout.org

212. TRUST FOR PUBLIC LAND – WASHINGTON OFFICE

Federal Affairs Department – National Programs, 660 Pennsylvania Ave. S.E., Suite 401
Washington, D.C. 20003

Contact: Katherine Rowe

Phone: 202-543-7552 Fax: 202-544-4723

Email: katherine.rowe@tpl.org

Website: www.tpl.org

Publications: "Land and People"

Mission: Land conservation is central to TPL's mission. Founded in 1972, the Trust for Public Land is the only national non-profit working exclusively to protect land for human enjoyment and well-being.

215. U.S. ARMY CORPS OF ENGINEERS

100 Penn Square East, Philadelphia, Pennsylvania 19107-3390

Contact: Gregory Wacik

Phone: 215-656-6561

Web Site: www.usace.army.mil

229. WATER RESOURCES ASSOCIATION OF THE DELAWARE RIVER BASIN

P.O. Box 867, Valley Forge, Pennsylvania

Contact: Robert F. Molzahn / President

Phone: 610-917-0090 Fax: 610-917-0091

Group Type: Non-Profit Advocacy

E-Mail Address: wra@wrardb.org

Web Site: www.wrardb.org

Publications: Newsletter

Mission: To promote sound water resources management within the Delaware River Basin. The Water Resources Association represents you—the water user and anyone dependent or interested in the Basin's water resources.

F. WATER SUPPLIERS AND AUTHORITIES

45. CITY OF ALLENTOWN BUREAU OF WATER RESOURCES

Water Resources-Distribution, 1242 Martin Luther King Jr. Drive
Allentown, Pennsylvania 18102

Contact: Lou Stalsitz / Manager

Phone: 610-437-7515 Fax: 610-437-8744

Phone 2: 610-437-7751 (after-hours emergencies)

E-Mail Address: stalsitz@allentowncity.org

76. HAZLETON CITY WATER AUTHORITY

400 East Author Gardener Highway, Hazleton City, Pennsylvania 18201

Contact: Randy Cahalan / Manager

Phone: 570-454-2401

E-Mail: rcahalan@amwater.com

111. LEHIGHTON WATER AUTHORITY

Municipal Offices, Post Office Box 29, Constitution Avenue, Lehighton, Pennsylvania 18235

Contact: Kenneth Sterling / Supervisor

Phone: 610-377-1912

E-Mail Address: waterlwa@ptd.net

110. LEHIGH VALLEY WATER SUPPLIERS, INC.

P.O. Box 3348, Allentown, Pennsylvania 18106-0348

Contact: Liesel Smull

Phone: 610-398- 2503 ext 128

E-Mail Address: mail4dewey@yahoo.com

Web Site: www.lvwater.org

141. NORTHAMPTON BOROUGH MUNICIPAL AUTHORITY

Lehigh Valley Water Suppliers, Inc., 1 Clear Springs Drive
P.O. Box 156, Northampton, Pennsylvania 18067

Contact: Steve Kerbacher / Operations Manager

Phone: 610-262-6711 Fax: 610-262-6796

E-Mail Address: nbmawater@aol.com

Web Site: www.nbma.org

G. EDUCATIONAL INSTITUTIONS,

40. CARBON COUNTY ENVIRONMENTAL EDUCATION CENTER

151 E. White Bear Dr., Summit Hill, Pennsylvania 18250

Contact: Susan Gallagher / Chief Naturalist

Phone: 570-645-8597 Fax: 570-645-8499

Group Type: Government

Publications: "Reflections From the Lake" Newsletter / Tri-Annually

Mission: To educate the general public about natural systems and the way they function; to instill values, attitudes and behaviors that will best conserve and improve our environment.

Issues: Wetlands; Water Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Forestry; Issues; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation and Management; River, Stream or Watershed Protection; Gardening; and Wildlife Rehabilitation.

Membership Count: 600

43. CEDAR CREST COLLEGE / DEPARTMENT OF BIOLOGICAL SCIENCES

Science Center, Allentown, Pennsylvania 18104

Contact: Alan B. Hale, Ph.D / Department Chair

Phone: 610-606-4666 ext 3510 Fax: 610-606-4616

E-Mail Address: abhale@cedarcrest.edu

Web Site: www2.cedarcrest.edu/academic/bio

61. DESALES UNIVERSITY / BIOLOGY DEPARTMENT

Department of Natural Science, Center Valley, Pennsylvania 18034

Contact: Dr. Robert Blumenstein / Department Chair; Dr. Joseph C. Colosi / Environmental Sciences

Phone: 610-282-1100

Web Site: www.desales.edu

87. KUTZTOWN UNIVERSITY ENVIRONMENTAL / SCIENCE FORUM

Boehm Science Bldg., Ofc. 219, Kutztown, Pennsylvania 19530

Contact: Dr. Donald Mellinger / Advisor

Phone: 610-683-4318 Fax: 610-683-1352

Group Type: Environmental Education

Mission: *To strive for awareness which will complement and complete the academic aspect of the environmental science major and to supplement the classroom experience of other interested students.*

Issues: *Wetlands; Air Pollution; Water Pollution; Oil & Gas Issues; Pollution Prevention; Mining & reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; (LLW) Radioactive Waste; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.*

Membership Count: 25

94. LAFAYETTE COLLEGE / DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL GEOSCIENCES

101B Van Wickle Hall, Easton, Pennsylvania 18042

Contact: *Dr. Dru Germanoski, Ph. D., P.G.*

Phone: 610-250-5196 Fax: 610-252-3904

E-Mail Address: *germanod@lafayette.edu*

Web Site: *www.lafayette.edu*

102. LEHIGH UNIVERSITY / EARTH OBSERVATROY (LEO)

Lehigh University 31 Williams Drive, Bethlehem, Pennsylvania 18015

Contact: *Margie Barry*

Phone: 610-758-5411

E-Mail Address: *mmt1@lehigh.edu*

Web Site: *www.leo.lehigh.edu*

Mission: *Focusing study on earth and environmental systems and society.*

63. LEHIGH UNIVERSITY / EARTH AND ENVIRONMENTAL SCIENCES

31 Williams Drive, Bethlehem, Pennsylvania 18105

Contact: *Dr. Frank Pazzaglia*

Phone: 610-758-3667

E-Mail Address: *fjp3@lehigh.edu*

Group Type: *Education*

120. LUZERNE COUNTY COMMUNITY COLLEGE / SCIENCE CLUB

1333 S. Prospect St., Nanticoke, Pennsylvania 18634

Contact: *W. Brooke Yeager, III / Advisor*

Phone: 570-740-0288 Fax: 570-740-0295

E-Mail Address: *byeager@luzerne.edu*

Mission: *To further environmental education of students by promoting recycling on campus, doing highway cleanup, birth control and frequent hands-on field trips.*

Issues: *Pollution Prevention; Environmental Education; Recycling; Land Conservation; and Outdoor Recreation.*

Membership Count: 10

68. MUHLENBERG COLLEGE / ENACT / BIOLOGY DEPARTMENT

Muhlenberg College – 2400 Chew St., Allentown, Pennsylvania 18104

Contact: *Dr. Carl S. Oplinger / Biology Professor*

Phone: 610-821-3257 Fax: 610-821-9809

Group Type: *Environmental Education*

E-Mail Address: *oplinger@muhlenberg.edu*

Mission: *To promote student awareness and action on local and regional issues of environmental concern.*

Issues: *Pollution Prevention; Environmental Education; Recycling; Land Conservation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.*

Membership Count: 20

131. MORAVIAN COLLEGE / BIOLOGY DEPARTMENT

Hall of Science, Rm 305, 1200 Main Street, Bethlehem, Pennsylvania 18018

Contact: *Professor Frank Kuserk / Department Chair*

Phone: 610-861-1300 ext. 1429

E-Mail Address: *meftk01@moravian.edu*

Web Site: *home.moravian.edu/public/bio*

145. NORTHAMPTON COUNTY JUNIOR CONSERVATION SCHOOL

206 West Third Street, Pennsburg, Pennsylvania 18073

Contact: *Andrew R. Curtis / Director*

Phone: 610-391-9840 Fax: 610-391-0683

Phone 2: 215-679-6984

Group Type: *Environmental Education*

E-Mail Address: *arc10@psu.edu*

Web Site: *www.ncjcs.org*

Mission: *In a continuing effort to install a positive attitude, leadership skills, and a conservation ethic among our youth, the Northampton County Junior Conservation School provides a week long hands-on outdoor learning experience for youth.*

Issues: *Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; Forestry Issues; Hunting or Fishing; Outdoor Recreation; Heritage Preservation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.*

Region Served: *Single county to multi-state*

161. PENN STATE LEHIGH VALLEY / BIOLOGY DEPARTMENT

8380 Mohr Lane, Fogelsville, Pennsylvania 18051

Contact: *Dr. Jackie McGlauglin / Assistant Professor Biology*

Phone: 610-285-5109

E-Mail Address: *jxm57@psu.edu*

Web Site: *www.lv.psu.edu*

201. THE ROVING NATURE CENTER

2572 Mountain Rd., Bath, Pennsylvania 18014

Contact: Timothy Herd / Executive Director

Phone: 800-284-0973 Fax: 610-837-6225

Group Type: Education

E-Mail Address: programs@rovingnature.com

Web Site: www.rovingnature.com

Mission: To "rove" the mid-Atlantic region bringing resources, equipment and staff of a reputable environmental education facility to various indoor or outdoor sites.

Issues: Environmental Education and Outdoor Recreation.

237. WILKES UNIVERSITY / GEOENVIRONMENTAL SCIENCES AND ENGINEERING DEPARTMENT

School of Science and Engineering, Wilkes-Barre, Pennsylvania 18766

Contact: Bill Toothill / GeoEnvironmental Scientist / GIS/GPS, Remote Sensing, Landuse Planning

Phone: 570-408-4616

E-Mail Address: btoothil@wilkes.edu

Web Site: www.wilkes.edu

H. HISTORICAL PRESERVATION ORGANIZATIONS;

13. ALBURTIS-LOCKRIDGE HISTORICAL SOCIETY

Headquarters and Museum at Lockridge Church, Church and Franklin Street
Alburtis, Pennsylvania 18011

Phone: 610-966-3534 Fax: 610.965.5517

E-Mail Address: office@alburtis.org

Web Site: www.alburtis.org

33. BETHLEHEM WORKS

530 E. 3rd Street, Bethlehem, Pennsylvania 18015

Phone: 610-694-2000 Fax: 610-694-6641

E-Mail Address: nmih@fast.net

Web Site: www.bethlehemworks.com

Publications: Proposed

Mission: Rising from the ground where Bethlehem Steel once stood will be Bethlehem Works, a multi-use cultural, recreational, educational, entertainment and retail development-including the National Museum of Industrial History, in affiliation with the Smithsonian Institution.

35. BUCKS COUNTY HISTORICAL SOCIETY

84 S. Pine Street, Doylestown, Pennsylvania 18901

Contact: Douglas C. Dolan / Executive Director

Phone: 215-345-0210 Fax: 215 230 0823

Group Type: Private Non-Profit

Email Address: info@mercermuseum.org

Website: www.mercermuseum.org/

Mission: As the County Historical Society, it is charged with collecting, preserving and interpreting the rich history and culture of Bucks County and the Delaware Valley region.

55. DELAWARE AND LEHIGH NATIONAL HERITAGE CORRIDOR COMMISSION

1 South Third Street, 8th Floor, Easton, Pennsylvania 18042

Contact: Allen Sachse / Executive Director

Phone: 610-923-3548 Fax: 610.923.0537

Email Address: nr_travel@nps.gov

Group Type: Heritage Corridor

Web Site: www.nps.gov/dele

Website: www.cr.nps.gov/nr/travel/delaware

Publications: Newsletter / Quarterly

Mission: To conserve the historic canals and amplify the recreational and educational opportunities based on them; conserve the natural and cultural environments; and establish a framework for stewardship to preserve historic sites and enhance recreation.

Issues: Environmental Education; Recycling; Local Land Use; Land Conservation; Industrial Site Re-use; Heritage Preservation; and River, Stream or Watershed Protection.

Region Served: Muti-county

65. EASTON HERITAGE ALLIANCE

P.O. Box 994, Easton, PA

Phone: 610-258-1612

E-Mail Address: bph@fast.net

67. EMMAUS HISTORICAL SOCIETY

563 Chestnut Street, Emmaus, Pennsylvania 18049

Phone: 610-966-6591

Website: www.emmaus-historic.org

Mission: The Emmaus Historical Society preserves the culture and history of the area through a variety of educational programs and community activities.

80. HISTORIC BETHLEHEM PARTNERSHIP

459 Old York Road, Bethlehem, Pennsylvania 18018

Phone: 610-691-6055 **Fax:** 610-694-0960

Email Address: info@historicbethlehem.org

Website: www.historicbethlehem.org/

Mission: *The Historic Bethlehem Partnership provides heritage education to school children and adults through programs and preservation of historic buildings, records and material documenting the history of early Bethlehem and the greater Lehigh Valley.*

81. HISTORIC CATASAUQUA PRESERVATION ASSOCIATION

616 Second Street, Catasauqua, Pennsylvania 18032

Contact: Janice Lathrop

Phone: 610-266-0255

Mission: *The Historic Catasauqua Preservation Association preserves the buildings and industrial artifacts of Catasauqua.*

82. HISTORICAL SOCIETY OF BERKS COUNTY

940 Centre Avenue, Reading, Pennsylvania 19601

Phone: 610-375-4375 **Fax:** 610 375-4376

Email Address: society.library@verizon.net

Publications: *"The Historical Review of Berks County" / Quarterly*

Website: www.berksweb.com/histsoc

Mission: *To collect, preserve, and foster an appreciation for the historically important physical culture of our country, and further, it is to promote in present-day citizens of all ages an interest and knowledge of past area events, people and cultural heritage in order to instill a sense of pride in local history which may act as a foundation for future successes*

83. HISTORICAL SOCIETY OF SCHUYLKILL COUNTY

14 North 3rd Street, PO Box 1181, Pottsville, Pennsylvania 17901

Phone: 570-622-7540

Website: www.rootsweb.com/~paschuy/HSSC/index.html

Mission: *Our purpose is to discover, procure, and preserve the records of the history of Schuylkill County and any materials which may illustrate that history.*

84. HUGH MOORE PARK

30 Centre Sq., Easton, Pennsylvania 18042

Contact: Steven Humphrey

Phone: 610-339-6619

E-Mail Address: ncm@canals.org

Web Site: canals.org/index.old

Publications: *"The Locktender" / Quarterly*

91. LACKAWANNA HISTORICAL SOCIETY

232 Monroe Avenue, Scranton, Pennsylvania 18510

Phone: 570-344-3841

Website: <http://204.186.88.7>

Mission: *The Society's mission is to collect, preserve, and interpret the artifacts, archives and bibliographic materials of the social, cultural and economic history of Lackawanna County and Northeastern Pennsylvania.*

98. LEHIGH COUNTY HISTORICAL SOCIETY

Old Courthouse, Hamilton and Fifth, P.O. Box 1548, Allentown, Pennsylvania 18105

Contact: John J. Zolomij / Executive Director

Phone: (610) 435-1074 ext.19

Publications: Newsletter "Town Crier" and biennial journal "Proceedings"

Website: www.lehighcountyhistoricalsociety.org

99. LEHIGH GAP HISTORICAL & PRESERVATION SOCIETY

P.O. Box 267, Palmerton, Pennsylvania 18071

Contact: Cathy Long

Phone: 610-377-0428

113. LENNI LENAPE HISTORICAL SOCIETY

2825 Fish Hatchery Road, Allentown, Pennsylvania 18103

Contact: Carla J. Messinger

Phone: 610.797.2121

Web Site: web-savvy.com/river/Schuylkill/lenape_museum.html

Mission: *The Lenni Lenape Historical Society is a non-profit educational organization dedicated to preserving, presenting, and perpetuating the history and cultural heritage of the Lenni Lenape (Delaware) of the original homeland, and other Native Peoples. -- Includes The Lenni Lenape Historical Society Museum of Indian Culture*

117. LOWER MACUNGIE TOWNSHIP HISTORICAL SOCIETY

Post Office Box 3722, Wescosville, Pennsylvania 18106

Contact: Craig L. Bartholomew, President

Phone: 610-967-3653

E-Mail Address: LMTHS@macungie.org

Web Site: www.macungie.org/LMTHS

123. LUZERNE COUNTY HISTORICAL SOCIETY

49 South Franklin Street, Wilkes-Barre, Pennsylvania 18701

Contact: Jesse Teitelbaum / Executive Director

Phone: 570-823-6244 Fax: 570-823-9011

Email Address: executivedirector@luzernecountyhistory.com

Website: www.luzernecountyhistory.com/

Publications: "FORCAST"

124. MACUNGIE HISTORICAL SOCIETY

P.O. Box 355, Macungie, Pennsylvania 18062

Phone: 610-965-0372 Fax: 610-966-0573

Group Type: Non-Profit

Email Address: MHS@macungie.org

Website: www.macungie.org

Mission: *The support of an educational undertaking by promoting the discovery, collection, preservation, archive, display, interpretation, and publication of the history, historical records, culture, landmarks, artifacts, memorabilia, and data of, and relating to, the Borough of Macungie and its surrounding area.*

126. MAUCH CHUNK HISTORICAL SOCIETY OF CARBON COUNTY

P.O. Box 273, Jim Thorpe, Pennsylvania 18229

Contact: Sheila O'Neal / President; Sandra Reese / Vice-President

Phone: 570-325-4439

E-Mail Address: steve@perdie.com

Publications: Newsletter / Twice a year

Membership Count: 400

129. MONROE COUNTY HISTORICAL ASSOCIATION

Stroudsburg, Pennsylvania 18360

Phone: 570-421-7703

Group Type: Non-Profit

Website: www.pastconnect.com/mhs

Publications: "THE FANLIGHT" / Quarterly

Mission: *The Monroe County Historical Association is a non-profit organization dedicated to the preservation and dissemination of Monroe County history*

132. MORAVIAN HISTORICAL SOCIETY

214 E. Center Street, Nazareth, Pennsylvania 18064

Contact: Susan M. Dreydoppel-Executive Director

Phone: 610-759-5070 Fax: 610-759-2461

Email Address: info@moravianhistoricalsociety.org

Website: www.moravianhistoricalsociety.org/

Publications: "Transactions of the Moravian Historical Society" / biennial journal and "The Moravian Historian" / newsletter

134. NATIONAL CANAL MUSEUM

30 Centre Square,, Easton, Pennsylvania 18042

Contact: Steven J. Humphrey / Executive Director

Phone: 610-559-6613 Fax: 610-250-6686

E-Mail Address: ncm@canals.org

Web Site: www.canals.org

Publications: "The Locktender" / Quarterly Newsletter

Mission: Come discover America's canal heritage at the National Canal Museum. Take a journey back in time to the early 1800's and experience what the world was like before railroads, highways and airplanes.

135. NATIONAL MUSEUM OF INDUSTRIAL HISTORY

Office of the Executive Director, 530 E. Third Street, Bethlehem, Pennsylvania 18015-1390

Contact: Robert C. Wilkins / Executive Director

Phone: 610-694-2000 Fax: 610-694-6641

E-Mail Address: nmih@fast.net

Web Site: http:www.nmih.org

Mission: The National Museum of Industrial History is dedicated to presenting the story and accomplishments of American industry and promoting its future.

144. NORTHAMPTON COUNTY HISTORICAL AND GENEALOGICAL SOCIETY

107 South Fourth Street, Easton, Pennsylvania 18042

Contact: Colleen Cunningham Lavdar / Executive Director

Phone: 610-253-1222 Fax: (610) 253-4701

E-Mail Address: director@northamptonctymuseum.org

Website: www.northamptonctymuseum.org/

148. OLD ALLENTOWN PRESERVATION ASSOCIATION

147 North Tenth Street, Allentown, Pennsylvania 18102

Phone: 610-740-9919

Email Address: malsberger@enter.net

Website: www.oldallentown.org

Publications: "Old Town News" / Bi-Monthly

Mission: Since 1976 we have been dedicated to preserving the historic architecture of Old Allentown and building a sense of community in our neighborhood.

193. SLATE BELT MUSEUM

P.O. Box 58, Rt. 611, Mount Bethel, Pennsylvania 18343

Phone: 570-897-6181

Email Address: wemery@epix.net

Website: www.geocities.com/Heartland/Ridge/7028/slatebeltmuseum.html

Publications: "Homefront" / Monthly

228. WALNUTPORT CANAL ASSOCIATION

417 Lincoln Ave., Walnutport, Pennsylvania 18088

Contact: Everett and Marilyn Kaul / Curator

Phone: 610-767-5817

E-Mail Address: marylinkaul@enter.net

232. WAYNE COUNTY HISTORICAL SOCIETY MUSEUM

810 Main Street, P.O. Box 446, Honesdale, Pennsylvania 18431

Contact: Sally Talaga / Director

Phone: 570-253-3240 Fax: 570-253-5204

Email Address: Director wchs@ptd.net, Librarian wchspa@ptd.net

Website: www.waynehistorical.org

I. OTHER

11. AGSHEN, INC.

424 Center St. Room 302, Bethelhem, PA 18018

Contact: Dan Poresky

Phone: 610-691-5253

E-Mail Address: dan@agshen.org

Web Site: www.agshen.org

Mission: The vision of AGSHEN (pronounce Action) is a livable world for us and future generations. Our mission is to serve all who share this vision by providing them the infrastructure and institutions needed to create demand and deliver solutions for achieving environmental sustainability. A sustainable society is one that satisfies its own needs without diminishing the prospects for future generations.

14. ALLENTOWN HIKING CLUB

206 S. 17th St., Allentown, Pennsylvania

Contact: Janet Goloub / President

E-Mail: president@allentownhikingclub.org

Website: www.allentownhikingclub.org

Publications: Newsletter / Quarterly

Mission: The aspiration of this club is to escape the crowded city; to walk, hike and climb for enjoyment and exercise with nature loving companions; to maintain its section of the Appalachian Trail; and to stimulate public interests in every phase of nature and the outdoors through programs and lectures.

Issues: Pollution Prevention; Land Conservation; Local Land Use; Environmental Education; Wildlife Conservation Management; Outdoor Recreation; and River, Stream, or Watershed Protection.

Region Served: Lehigh County

15. ALLIANCE FOR SUSTAINABLE COMMUNITIES-LEHIGH VALLEY

1966 Creek Road, Bethlehem, Pennsylvania 18015

Contact: Martin Boksenbaum

Phone: 610-838-7666 (Joris Rosse)

E-Mail Address: mwb@fast.net

Group Type: Public Interest; Non-Profit

Publications: E-Mail Publications and Alerts

Mission: The Alliance is dedicated to working for community sustainability. This will involve holistic approaches to the environment, social justice, health, participatory democracy, and local economies. We are committed to active, collaborative approaches to achieving long-term positive outcomes.

Issues: Political and Environmental Advocacy; Water Pollution; Local Land Use; and River, Stream or Watershed Protection.

23. ARROWHEAD LAKES

HC 88, Box 305, Pocono Lake, Pennsylvania 18347

24. AUDUBON SOCIETY – BUCKS COUNTY CHAPTER

6324 Upper York Rd., New Hope, Pennsylvania 18938

Contact: Bruce McNaught / Executive Director

Phone: 215-297-5880 Fax: 215-297-0835

E-Mail Address: mail@bcas.org

Publications: "The Harbinger" Newsletter / Quarterly

Mission: To conserve wildlife, promote awareness of environmental problems, educate the public about the interdependence of humans and their environment, and further the wise use of land and water.

Issues: Wetlands; Air Pollution; Pollution Prevention; Environmental Education; Recycling; Local Land Use; Land Conservation; Industrial Site Re-use; Forestry Issues; Outdoor Recreation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Membership Count: 2,300

25. AUDUBON SOCIETY-GREATER WYOMING VALLEY

P.O. Box 535, Dallas, Pennsylvania 18612

Contact: Robert C. Houck / President

Phone: 570-825-BIRD

Group Type: Public Interest; Advocacy

Publications: "Valley Views" Newsletter / Bi-monthly

Mission: To promote the conservation and protection of wildlife, plants, soil and water in relation to human activity; initiate and carry out plans to protect these resources; and provide more opportunity to be aware of our environment.

Issues: Wetlands; Air Pollution; Water Pollution; Oil & Gas Issues; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Reuse; Forestry Issues; State-Owned Land; Outdoor Recreation; Wildlife Conservation Management; and River, Stream, or Watershed Protection.

Region Served: Multi-county

Membership Count: 500

26. AUDUBON SOCIETY-LEHIGH VALLEY CHAPTER

P.O. Box 290, Emmaus, Pennsylvania 18049

Contact: Frederic Brock / Treasurer

Phone: 610-264-4544

Group Type: Public Interest; Advocacy

Publications: "Osprey" / Bi-monthly

Mission: To promote the conservation and protection of wildlife, plants, soil and water in relation to human activity; initiate and carry out plans to protect these resources; and provide more opportunity to be aware of our environment.

Issues: Wetlands; Environmental Education; Land Conservation; Outdoor Recreation; and Wildlife Conservation and Management.

Region Served: Multi-county

Membership Count: 1300

27. AUDUBON SOCIETY – NORTHEAST PENNSYLVANIA

P.O. Box 711, Honesdale, Pennsylvania 18431-0711

Contact: Joe Strasser / President

Phone: 570-253-9250 Fax: 570-226-9856

Group Type: Public Interest; Advocacy; Education; Conservation.

E-Mail Address: sawwhet@ptd.net

Web Site: www.audubon.org/chapter/pa/northeast

Publications: "Eco-Notes" / Bi-Monthly

Mission: To promote the conservation and protection of wildlife, plants, soil and water in relation to human activity; initiate and carry out plans to protect these resources; and provide more opportunity to be aware of our environment.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; Forestry Issues; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-County

Membership Count: 700

28. AUDUBON SOCIETY – POCONO MOUNTAIN CHAPTER

P.O. Box 231, Bushkill, Pennsylvania 18324

Contact: Chris Turn / President

Phone: 570-588-6850 Fax:

Group Type: Public Interest; Advocacy

E-Mail Address: birder@esu.edu

Publications: "Pocono Mt. Audubon Newsletter" / Quarterly

Mission: To promote the conservation and protection of wildlife, plants, soil and water in relation to human activity; initiate and carry out plans to protect these resources; and provide more opportunity to be aware of our environment.

Issues: Wetlands; Water Pollution; Environmental Education; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-County

Membership Count: 300+

47. COALITION FOR ALTERNATIVE TRANSPORTATION

60 W. Broad St. Ste. 97, Bethlehem, Pennsylvania 18018

Contact: Steve Schmitt / Director

Phone: 610-954-5744 Fax: 610-974-2803

Group Type: Public Interest

E-Mail Address: cat@carfree.org

Web Site: www.carfree.org

Publications: Monthly Calendar

Mission: To promote and develop better transportation options and minimize the damaging effects of automobiles.

Issues: Air Pollution; Oil & Gas Issues; Pollution Prevention; Environmental Education; Local Land Use; Land Conservation; and Outdoor Recreation.

Region Served: Multi-County

Membership Count: 1,500

95. LAKE HARMONY

Box 227, 1437 East Lamplighter Lane, Gwynedd, Pennsylvania 19436

Contact: Pat Hill

96. LEAGUE OF WOMEN VOTERS OF PENNSYLVANIA

226 Forster Street, Harrisburg, PA 17102

Contact: Elizabeth Milner

Phone: 717-234-1576

Citizen Information Center: 1-800-692-7281

League Information: 800-JOIN-LWV

E-mail: lwwpa@pa.lww.org

Web Site: *pa.lwv.org*

Mission: *"The purpose of the League of Women Voters of the United States is to promote political responsibility through informed and active participation of citizens in government and to act on selected governmental issues."*

103. LEHIGH VALLEY CANOE CLUB

P.O. Box 20194, Lehigh Valley, Pennsylvania 18002

Phone: 610-559-9595

Group Type: *Recreation*

E-Mail Address: *drempp@hotmail.com*

Web Site: *www.enter.net/~lvcc*

Publications: *"River Readings" / newsletter Six times per year*

Mission: *The purpose of the LVCC is to unite persons interested in paddle sport in the Lehigh Valley and adjacent watersheds to provide information, education and training to increase the safety, enjoyment and skills of its members. To this end the LVCC will provide.*

Issues: *Water Safety; Education; and River, Stream, or Watershed Protection.*

104. LEHIGH VALLEY COALITION FOR A SAFE ENVIRONMENT

P.O. Box 48, Nazareth, Pennsylvania 18064

Contact: *Joan Garret / Steering Committee Chair*

Phone: 610-746-0893 Fax: 610-746-2743

Group Type: *Public Interest*

E-Mail Address: *JTGarr@email.msn.com*

Mission: *To stop the burning of hazardous waste in cement kilns.*

Issues: *Hazardous Waste*

Region Served: *Local Community*

107. LEHIGH VALLEY GREENS

810 Vernon St., Bethlehem, Pennsylvania 18015

Contact: *Guy Gray / Member*

Phone: 610-865-9050 Fax:

Group Type: *Public Interest*

E-Mail Address: *vernonst@igc.apc.org*

Web Site:

Publications: *Newsletter / Quarterly*

Mission: *To promote environmental education and sustainability.*

Issues: *Environmental Education; Local Land Use; Land Conservation; Industrial Site Reuse; River, Stream or Watershed Protection; and Alternative Transportation.*

Region Served: *Multi-County*

Membership Count: 20

116. LOCAL ENVIRONMENTAL AWARENESS DEVELOPMENT GROUP (LEAD)

P.O. Box 13033, Reading, Pennsylvania 19612-3033

Contact: Nancy L. Tobias / President

Phone: 610-929-5495 Fax:

Group Type: Public Interest

Mission: To protect and support the right for all creatures to have clean air, land and water.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Environmental Education; and (LLW) Radioactive Waste.

Region Served: Single county

163. PENNSYLVANIA COUNCIL OF PROFESSIONAL FORESTERS

311 2ND St., Pine Grove, Pennsylvania 17963

Contact: Don Oaks / Secretary/Treasurer

Phone: 570-345-6284 Fax: 570-345-5471

Group Type: Advocacy

E-Mail Address: pnforest@ptd.net

Publications: Newsletter

Issues: Wetlands; Environmental Education; Local Land Use; Land Conservation; Forestry Issues; State-Owned Land; Hunting or Fishing; Outdoor Recreation; Wildlife Conservation & Management; and River, Stream or Watershed Protection.

Region Served: State

Membership Count: 50

189. SIERRA CLUB-BERKS COUNTY GROUP

525 Andrea Pl., Yardley, Pennsylvania 19067

Contact: Marcia Bachman / Secretary

Phone: 610-562-2462 Fax:

Group Type: Public Interest; Advocacy

Publications: Newsletter / Quarterly

Mission: To explore, enjoy and protect the wild places of the earth; to practice and promote the responsible use of the earth's ecosystems and resources; to educate and enlist humanity to protect and restore the quality of the natural and human environments.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; (LLW) Radio Active Waste; Forestry Issues; State-Owned Land; and River, Stream, or Watershed Protection.

Region Served: Multi-county

Membership Count: 597

191. SIERRA CLUB-LEHIGH VALLEY GROUP

P.O. Box 1901, Allentown, Pennsylvania 18105

Contact: David McGuire / Chair

Phone: 610-997-3618 Fax:

Group Type: Public Interest; Advocacy

Mission: To explore, enjoy and protect the wild places of the earth; to practice and promote the responsible use of the earth's ecosystems; to educate and enlist humanity to protect and restore the quality of the natural and human environments.

Publications: Newsletter / Quarterly

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; (LLW) Radioactive Waste; Forestry Issues; Forestry Issues; Outdoor Recreation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-county

192. SIERRA CLUB-NORTHEASTERN GROUP

P.O. Box 1311, Scranton, Pennsylvania 18501

Contact: Jennifer Lavery

Phone: 570-587-5223 Fax:

Group Type: Public Interest; Advocacy

E-Mail Address: nesierra@aol.com

Web Site: www.members.aol.com/nesierra

Publications: Newsletter / Bi-monthly

Mission: To explore, enjoy and protect wild places; to practice and promote the responsible use of the earth's ecosystems and resources; to educate and enlist humanity to protect and restore the quality of the environment.

Issues: Wetlands; Air Pollution; Water Pollution; Pollution Prevention ; Mining & Reclamation; Environmental Education; Recycling; Local Land Use; Municipal Waste; Hazardous Waste; Land Conservation; Industrial Site Re-use; (LLW) Radioactive Waste; Forestry Issues; State-Owned Land; Outdoor Recreation; Wildlife Conservation and Management; and River, Stream or Watershed Protection.

Region Served: Multi-county

Membership Count: 900

B. Management Resources and Tools

1. PROGRAMS

a. Cultural

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

The Pennsylvania Historical and Museum Commission (PHMC) is a resource of historical information concerning the watershed and has several preservation and education programs. PHMC provides technical support and grants to enhance historical museums and sites around the state, including the Pennsylvania History and Museum Grant Program, the Certified Local Government Grant Program, and the Keystone Historic Preservation Grant Program.

The Commission's Bureau for Historic Preservation administers all official state historic preservation programs and activities. These include maintaining the Commonwealth's cultural resource inventory, preparing a state preservation plan, nominating properties to the National Register of Historic Places, reviewing state and federal government undertakings for effects on cultural resources, assisting in certifying historic building rehabilitation projects seeking federal tax incentives, conducting archaeological investigations, overseeing the designation of historic districts under municipal ordinances, advising local governments on preservation issues, providing grants to local governments, historical and cultural institutions, and preservation organizations to restore historic buildings, to conduct cultural resource surveys, to write National Register nominations, and to assist with heritage educational programs and exhibits.

Pennsylvania municipalities have authority to protect historic properties under municipal ordinances. Information is available for municipalities that are seeking to establish preservation ordinances. The Bureau manages the Certified Local Government (CLG) grants that enable municipalities to expand their preservation activities. The Bureau conducts regular workshops for Certified Local Governments.

Extensive architectural and technical guidance is available for repair and maintenance of historic buildings. This includes the complete Preservation Briefs series published by the National Park Service as well as other printed material. Information is also available on the 20% federal rehabilitation tax credit (RTC) that is available for qualified historic buildings.

The PHMC has a comprehensive grants program to further the presentation and interpretation of Pennsylvania history by local, county, and regional historical and museum organizations, to preserve local historic records and documents, to prepare exhibits, to do research on local history, to support local historic preservation efforts, to restore or rehabilitate historic buildings owned by local governments or non-profit organizations, and to assist local governments that have municipal preservation ordinances.

PRESERVATION PENNSYLVANIA

Preservation Pennsylvania, through creative partnerships, targeted educational and advocacy programs, advisory assistance, and special projects, assists Pennsylvania communities to protect and utilize the historic resources they want to preserve for the future. Preservation Pennsylvania is a private non-profit organization dedicated to the protection of historically

and architecturally significant properties. In its capacity as the statewide historic preservation organization for Pennsylvania, Preservation Pennsylvania acts as a resource for and provides expertise to the many local and regional preservation organizations and agencies throughout the Commonwealth. Preservation Pennsylvania regularly responds to requests for information and assistance on a wide range of technical preservation issues.

b. Aquatic

ABANDONED MINE DRAINAGE PROGRAMS

Abandoned Mine Drainage has been identified as the principal source of impairment to the Lehigh River. Several government agencies exist to deal with the issues of mining and abandoned mine drainage in Pennsylvania and include the Office of Surface Mining, the Pennsylvania DEP Bureau of Mining and Reclamation, and the Pennsylvania DEP Bureau of Abandoned Mine Reclamation.

THE OFFICE OF SURFACE MINING (OSM)

The Office of Surface Mining is the office of the Interior Department that is responsible for protecting the environment during coal mining and making sure the land is reclaimed afterward. OSM builds partnerships with the governments of the states where coal is mined. The Surface Mining Law gives primary responsibility for regulating surface coal mine reclamation to the states themselves, a responsibility that 24 coal states have chosen to exercise. On federal lands and Indian Reservations and in the coal states that have not established regulatory programs of their own (Tennessee and Washington), the Office of Surface Mining issues the coal mine permits, conducts the inspections, and handles the enforcement responsibilities.

THE BUREAU OF MINING AND RECLAMATION (BMR)

The Bureau of Mining and Reclamation administers an environmental regulatory program for all mining activities, including mine subsidence regulation, mine subsidence insurance, and coal refuse disposal; conducts a program to ensure safe underground bituminous mining and protect certain structures from subsidence; administers a mining license and permit program; administers a regulatory program for the use, storage, and handling of explosives. The program also provides for training, examination, and certification of applicants for blaster's licenses and administers a loan program for bonding of anthracite underground mines and for mine subsidence. The Bureau administers the EPA Watershed Assessment Grant Program, the Areas Unsuitable for Mining Program (UFM), the Small Operator's Assistance Program (SOAP), and the Remining Operator's Assistance Program (ROAP).

THE BUREAU OF ABANDONED MINE RECLAMATION (BAMR)

The Bureau of Abandoned Mine Reclamation administers and oversees the Abandoned Mine Reclamation Program in Pennsylvania. The bureau is responsible for resolving problems such as mine fires, mine subsidence, dangerous highwalls and other hazards which have resulted from past mining practices, and for abating or treating abandoned mine drainage from mines.

Three of the many programs that exist to address abandoned mine drainage and mine land reclamation issues include the Regional Watershed Support Initiative, the Clean Streams Initiative, and the Reclaim Pennsylvania project.

REGIONAL WATERSHED SUPPORT INITIATIVE

The goal of the Regional Watershed Support Initiative is to provide financial support for the formation and activities of watershed groups whose primary focus is abandoned mine drainage (AMD) abatement and abandoned mine land (AML) reclamation. An additional goal is to support the continuing AMD/AML coordination efforts of the Eastern and Western Pennsylvania Coalitions for Abandoned Mine Reclamation (EPCAMR and WPCAMR). The EPCAMR and WPCAMR will distribute grants to public and private volunteer groups primarily interested in starting new AMD/AML watershed associations, watershed authorities, or partnerships. Assistance will be targeted to groups that intend to form a new organization, partnership, association, authority or coalition, with the primary goal of assessing and remediating sources of watershed AMD and, by association, AML reclamation.

THE CLEAN STREAMS INITIATIVE

The Clean Streams Initiative is a broad-based citizen/industry/government program working to eliminate abandoned mine drainage from abandoned coal mines. Using a combination of private and governmental resources, the initiative facilitates and coordinates citizen groups, university researchers, the coal industry, corporations, the environmental community, and local, state, and federal government agencies that are involved in cleaning up streams polluted by mine drainage.

RECLAIM PENNSYLVANIA

Reclaim Pennsylvania is DEP's new initiative designed to maximize reclamation of the state's quarter million acres of abandoned mineral extraction lands. Pennsylvania is striving for complete reclamation of its abandoned mines and plugging of its orphaned wells. DEP developed concepts to make abandoned mine reclamation easier. These concepts, collectively called Reclaim Pennsylvania, include legislative, policy and management initiatives designed to enhance mine operator, volunteer, and DEP reclamation efforts. Reclaim Pennsylvania has the following four objectives: to encourage private and public participation in abandoned mine reclamation efforts; to improve reclamation efficiency through better communication between reclamation partners; to increase reclamation by reducing remaining risks; and to maximize reclamation funding by expanding existing sources and exploring new sources.

WATERSHED MANAGEMENT RESOURCES

Section 303(d), Clean Water Act (CWA)

Section 303(d) of the Clean Water Act requires that each state identify those waters that do not currently support designated uses, and to establish a priority ranking of these waters by taking into account the severity of the pollution and the designated uses of such waters. For each waterbody on the list, the state is required to establish a total maximum daily load (TMDL) for the pollutant or pollutants of concern at a level necessary to implement the applicable water quality standards. Guidance issued in August 1997 by the Environmental Protection Agency (EPA) suggests that states also include a schedule for TMDL development.

Total Maximum Daily Load

The primary mission of the TMDL program is to protect public health and ensure healthy watersheds by assuring that waterbodies are meeting water quality standards. States and Territories identify impaired waterbodies, those not meeting water quality standards. Lists of these waterbodies are provided to the public and EPA every two years. The lists are priori-

ty-ranked based upon severity of the pollution and the uses to be made of the waterbodies. States then develop TMDLs for waterbodies on the list. TMDLs specify the reductions needed to meet water quality standards and allocate those reductions among the sources in the watershed. EPA reviews and approves the lists and the TMDLs. If EPA disapproves, the Agency must act in lieu of the state.

What is a TMDL?

- A TMDL or Total Maximum Daily Load is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources.
- Water quality standards are set by states, territories, and tribes. They identify the uses for each waterbody, for example, drinking water supply, contact recreation (swimming), and aquatic life support (fishing), and the scientific criteria to support that use.
- A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and non-point sources. The calculation must include a margin of safety to ensure that the waterbody can be used for the purposes the state has designated.
- The Clean Water Act, section 303, establishes the water quality standards and TMDL programs.
- Section 303(d) of the Clean Water Act authorizes the TMDL program; the current regulations can be found at 40 CFR 130.7. The recommendations of the Federal Advisory Committee are guiding the development of proposed changes.

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF WATER MANAGEMENT**

The Office of Water Management plans, directs and coordinates departmental programs associated with the management and protection of the Commonwealth's water resources; administers and oversees departmental programs involving surface and groundwater quantity and quality planning, and soil and water conservation; coordinates policies, procedures and regulations which influence public water supply withdrawals and quality, sewage facilities planning, point source municipal and industrial discharges, encroachments upon waterways and wetlands, dam safety, earth disturbance activities and control of storm water and non-point source pollution; and coordinates the planning, design and construction of flood protection and stream improvement projects.

PENNSYLVANIA'S NON-POINT SOURCE (NPS) MANAGEMENT PROGRAM

The Pennsylvania Non-point Source (NPS) Management Program 1999 Update outlines the Commonwealth's plan to address non-point source pollution over the next four years and beyond. This update enhances Pennsylvania's Non-point Source Management Program approved by EPA in 1992 in compliance with Section 319(b) of the Federal Water Pollution Control Act (Clean Water Act) as amended by P.L. 100-4 on February 4, 1987. This plan also establishes the overall strategy Pennsylvania will use to implement the watershed protection aspects of Governor Ridge's Growing Greener program.

c. Land

MUNICIPAL PLANNING

Although municipal planning regulations, zoning, and comprehensive plans are not permanent and can/should be changed over the years to adapt to changing community needs and goals, these regulations are vital in shaping a region and the individual communities within a region.

The importance of careful land-use planning cannot be over emphasized. With the changes in the Municipal Planning Code (MPC) in the year 2000, which allow for regional planning across municipal boundaries, municipalities can plan together and make decisions which make more sense for their communities.

Agricultural Protection Zoning is one example of municipal planning that can effectively designate farming as the primary land use and discourage other land uses in those areas. Historic Preservation Zoning is another useful planning tool for encouraging the protection of historical features in a community.

AGRICULTURAL LAND PRESERVATION PROGRAM

A very effective method for farmland preservation is the county/state purchase of development rights program. In this program, farm owners are paid for their development rights, and the farm remains as available farmland.

This voluntary program has been very successful since its beginning in 1989. Farm owners must first join an agricultural security area in the municipality where the farm is located or a neighboring municipality's agricultural security area. A farm owner then fills out an application for the county program to sell the development rights of the farm. The farm is ranked against other applicants, and, if the farm ranks high enough, an independent appraisal is completed and an offer is made to the farm owner. The program's ranking system is designed to select the farms that have the most productive soils and are most threatened by development. The soil factor is nearly fifty percent of the score. Other factors include proximity to sewage and water lines, type of development nearby, amount of agricultural activity nearby, and the amount of protected farmland nearby. If the offer is accepted by the farm owner, the farm is forever protected from development, and will remain available for farming for future generations.

AGRICULTURAL SECURITY AREA (ASA)

An Agricultural Security Area (ASA), permitted under Pa. State Act 43, provides enrolled landowners protection from condemnation, enforcement of nuisance laws, and any other ordinances that may prohibit or limit viable farming practices. Owners wanting to participate in state and/or county agricultural easement programs must first participate in this program.

Landowners of viable agricultural land may submit a proposal to the municipality for inclusion in the agricultural security area, provided such landowner(s) own at least 10 acres of viable agricultural land to be in the area. The farmland may be contiguous or not, but there must be at least 10 acres of each parcel or an anticipated \$2,000 gross income from each parcel. Following public notice, the proposed lands are reviewed based on the Land Evaluation and Site Assessment (LESA) system. If land passes the minimum acceptable standards, the land acquires this designation. Every seven years all lands are monitored. At any time, a landowner may submit, in writing, a desire to remove from this designation, and 180 days later, the parcel is removed. The ASA designation does not protect land from future development.

FOREST LEGACY PROGRAM

The Forest Legacy Program (FLP) is a new program for Pennsylvania. It is a federal program in partnership with states, which supports state efforts to protect environmentally sensitive forest lands. This voluntary program is designed to protect privately owned forests through the purchase of development rights, which prevent private forests from being converted to non-forest uses.

The goals of the program are:

1. To maintain traditional forest uses, including recreation and timber harvesting following Best Management Practices
2. To maintain productivity of forests for future generations
3. To prevent forest parcelization
4. To conserve significant tracts of contiguous forests
5. To conserve water resources and riparian zones
6. To conserve important habitats for plants, fish, and wildlife
7. To restore degraded forested ecosystems

The program works similarly to the agricultural land preservation program in that a landowner applies to the program, and the forest land is ranked for several factors including timber quality, the threat of development, and conservation values. A certified appraisal is completed, and, if the landowner accepts the offer and terms of the easement, the forest land is perpetually protected from non-forest uses.

The state or county is responsible for enforcement of the easement. The Forest Legacy Program is a cost-share program run by the U.S. Forest Service. The federal government pays up to 75% of the total program costs for each property. The in-kind match can be made by cash contributions, donated interests in land, or in-kind services.

2. FUNDING

a. Funding Cultural Components

CERTIFIED LOCAL GOVERNMENT GRANT PROGRAM

Pennsylvania Historical and Museum Commission (PHMC)

Funding under this program is limited to federally designated Certified Local Governments. Funding is available for the following: the categories of cultural resource surveys, national register nominations, technical and planning assistance, educational and interpretive programs, staffing and training, and pooling CLG grants and third party administration.

COMMUNITY CONSERVATION PARTNERSHIPS PROGRAM

Pennsylvania Department of Conservation and Natural Resources (DCNR)

Heritage Parks Grants promote public-private partnerships to preserve and enhance natural, cultural, historic, and recreation resources to stimulate economic development through heritage tourism. Grants are available to municipalities, non-profit organizations, or federally designated commissions acting on behalf of the municipalities in a heritage park area.

Grants are awarded for a variety of purposes including feasibility studies; development of management action plans for heritage park areas; specialized studies; implementation projects; and hiring of state heritage park managers. Grants require a 25-50 percent local match.

KEYSTONE HISTORIC PRESERVATION GRANT PROGRAM

Pennsylvania Historical and Museum Commission (PHMC)

Funding under this program is available to non-profit organizations and local governments for capital improvements on historic resources listed in or eligible for listing in the National Register of Historic Places. (Private property owners are not eligible for funding under this program and may wish to refer directly to PHMC Programs of Interest for information on investment tax credits.) Funding is available in the categories of preservation, restoration, and rehabilitation

PENNSYLVANIA HISTORY AND MUSEUM GRANT PROGRAM

Pennsylvania Historical and Museum Commission (PHMC)

Funding under this program is designated to support a wide variety of museum, history, archives and historic preservation projects, as well as non-profit organizations and local governments.

STATE COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM

U.S. Department of Housing and Urban Development (HUD)

The state CDBG Program provides states with annual direct grants, which they in turn award to smaller communities and rural areas for use in revitalizing neighborhoods, expanding affordable housing and economic opportunities, and/or improving community facilities and services.

Listed in Table 7-1 is a matrix of Cultural Funding Programs.

b. Funding Aquatic Components

ABANDONED MINE LAND PROGRAM – CLEAN STREAMS INITIATIVE

Office of Surface Mining

The Clean Streams Program is a broad-based citizen, industry and government program working to eliminate acid mine drainage from abandoned coal mines. Using a combination of private and governmental resources, the program facilitates and coordinates citizen groups, university researchers, the coal industry, corporations, the environmental community, and local, state, and federal government agencies that are involved in cleaning up streams polluted by acid drainage. Begun as an initiative in 1994, this successful program has funded 77 projects in 10 states as of 2002.

C-SAW

*Resource Conservation & Development Councils (RC&D);
U.S. Department of Agriculture (USDA)*

The Resource Conservation & Development Councils (RC&D) are a non-profit organization authorized by the United States Department of Agriculture (USDA) to provide administrative support to watershed groups across the state. The local Resource Conservation & Development Councils (RC&D) will provide instructions for filling out a C-SAW two-page request for assistance application.

The goal of the C-SAW program is not to offer direct assistance, but rather to provide training to build the capacity of groups to plan, conduct watershed assessments, and conduct

TABLE 7-1 CULTURAL FUNDING PROGRAMS MATRIX

Program	Agency	Description	Target Audience	Contact
Certified Local Government Grant Program	Pennsylvania Historical and Museum Commission (PHMC)	Offers multiple funding opportunities to a wide variety of nonprofit organizations and public agencies throughout the Commonwealth.	Federally designated Certified Local Governments	Certified Local Government Grant Manager Janice E. Stramara Bureau for Historic Preservation Commonwealth Keystone Building 400 North Street Harrisburg, Pennsylvania 17120 Phone: 717-783-2838 jstramara@state.pa.us
Community Conservation Partnerships Program	The Department of Conservation and Natural Resources (DCNR)	Promote public-private partnerships to preserve and enhance natural, cultural, historic and recreation resources to stimulate economic development through heritage tourism.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR RCSOB 6th Floor PO Box 8475 Harrisburg, PA 17105-8551 Phone: 717-783-4734
Keystone Historic Preservation Grant Program	Pennsylvania Historical and Museum Commission (PHMC)	Offers multiple funding opportunities to a wide variety of nonprofit organizations and public agencies throughout the Commonwealth.	Nonprofit organizations and local governments for capital improvements on historic resources	Keystone Historic Preservation Grant Administrator Bryan Van Sweden Bureau for Historic Preservation Commonwealth Keystone Building 400 North Street Harrisburg, Pennsylvania 17120 Phone: 717-772-5071 bvansweden@state.pa.us
Pennsylvania History and Museum Grant Program	Pennsylvania Historical and Museum Commission (PHMC)	Offers multiple funding opportunities to a wide variety of nonprofit organizations and public agencies throughout the Commonwealth.	Museum, history, archives and historic preservation projects, nonprofit organizations and local governments.	Program Director for PHMC Grant Programs Ira F. Smith III Bureau for Historic Preservation Commonwealth Keystone Building 400 North Street Harrisburg, Pennsylvania 17120 Phone: 717-783-9927
State Community Development Block Grant (CDBG) Program	U.S. Department of Housing and Urban Development (HUD)	Provides States with annual direct grants, which they in turn award to smaller communities and rural areas for use in revitalizing neighborhoods, expanding affordable housing and economic opportunities, and/or improving community facilities and services.	Local Governments and communities.	State and Small Cities Division Rm. 7184, 451 7th Street, SW, Washington, DC 20410 Phone: 202-708-1322.

post-implementation monitoring in the future. This is accomplished through program management assistance by providing:

- Specialists who can help identify solutions and assist groups in the development of monitoring programs, restoration projects, and protection plans.
- Training on conducting assessments and developing restoration projects and protection plans.
- Technical, scientific support in study design and implementation..

CHALLENGE 21 – FLOOD HAZARD MITIGATION AND RIVERINE RESTORATION

U.S. Army Corps of Engineers (USACE)

The Army Corps' flood hazard mitigation and riverine ecosystem restoration initiative focuses on sustainable, non-structural approaches. This program will, where appropriate, move families and businesses out of harm's way and work to return the floodplains of rivers and creeks to a condition where they can naturally moderate floods as well as provide other benefits to communities and the environment. Key federal partners include the Federal Emergency Management Agency, the Department of Agriculture, the Department of Interior, and the Environmental Protection Agency.

CLEAN WATER ACT – 319 PROGRAM

U.S. Environmental Protection Agency (EPA)

Through its 319 program, EPA provides grants to the states and tribes to implement non-point source projects and programs in accordance with Section 319 of the Clean Water Act (CWA). Non-point source pollution reduction projects can be used to protect source water areas and the general quality of water resources in a watershed. In Pennsylvania the 319 program is administered by the Pennsylvania Department of Environmental Protection.

COLDWATER CONSERVATION FUND

Trout Unlimited

Trout Unlimited's Coldwater Conservation Fund (CCF) supports scientific and economic research and analysis and science-based watershed restoration projects that further Trout Unlimited's mission. Each year, the Coldwater Conservation Fund (CCF) funds more than \$1 million in biological and economic research and watershed-scale demonstration projects. The Coldwater Conservation Fund's independent Board of Directors approves a slate of projects each fall and helps raise the funds to support those projects.

COMMUNITY CONSERVATION PARTNERSHIPS PROGRAM

Pennsylvania Department of Conservation and Natural Resources (DCNR)

River Conservation Grants are available to municipalities, counties, municipal and intermunicipal authorities, and river support groups to conserve and enhance river resources. River support groups must be non-profits which are designated to act on behalf of interested municipalities. Planning grants are available to identify significant natural and cultural resources, threats, concerns and special opportunities and to develop river conservation plans. Implementation grants are available to carry out projects or activities defined in an approved river conservation plan. Grants require a 50 percent cash or in-kind match.

CONSERVATION RESERVE PROGRAM (CRP)

*U.S. Department of Agriculture (USDA)
Natural Resource Conservation Service (NRCS)*

The Conservation Reserve Program (CRP) provides technical and financial assistance to eligible farmers and ranchers to address soil, water, and related natural resource concerns on their lands in an environmentally beneficial and cost-effective manner. The program provides assistance to farmers and ranchers in complying with federal, state, and tribal environmental laws, and encourages environmental enhancement. The program is funded through the Commodity Credit Corporation (CCC). The Conservation Reserve Program is administered by the Farm Service Agency, with Natural Resource Conservation Service (NRCS) providing technical land eligibility determinations, Environmental Benefit Index Scoring, and conservation planning.

FISHERIES HABITAT RESTORATION PROGRAM

National Oceanic and Atmospheric Administration (NOAA)

The NOAA Habitat Restoration Program (Restoration Program) leads and coordinates NOAA's restoration activities to fulfill the NOAA habitat restoration mission in a coordinated and effective manner. This cooperative approach provided through the Restoration Program fosters data and information exchange among NOAA's restoration programs.

GROWING GREENER PROGRAM

Commonwealth of Pennsylvania

The Growing Greener Program is the largest single investment of state funds in Pennsylvania's history to address Pennsylvania's critical environmental concerns of the 21st century. The following four agencies are involved in helping communities "grow greener" under the Environmental Stewardship & Watershed Protection Act. The agencies provide specific funding for various projects and programs throughout Pennsylvania:

- Pennsylvania Department of Environmental Protection (DEP): watershed protection, mine reclamation, oil and gas well plugging, technical assistance, new and innovative technology grants
- Department of Conservation and Natural Resources (DCNR): open space and recreation grants
- Pennsylvania Infrastructure Investment Authority (PENNVEST): wastewater, drinking water, stormwater management grants
- Pennsylvania Department of Agriculture (PDA): county farmland preservation grants

NATIONAL CORPORATE WETLANDS RESTORATION PARTNERSHIP (CWRP)

U.S. Army Corps of Engineers (USACE)

The National Corporate Wetlands Restoration Partnership (CWRP) is a public-private partnership between the federal government, state governments and private corporations to restore wetlands and other aquatic habitats. The CWRP's objective is to protect, enhance and restore wetlands and other aquatic habitats by partnering to leverage the collective resources, skills and processes of the private and public sectors. In the CWRP, corporations contribute funds to a participating private foundation or state trust fund. These funds will be matched by federal and state funds to undertake aquatic ecosystem restoration projects.

NATIONAL FISH AND WILDLIFE FOUNDATION (NFWF)

U.S. Fish and Wildlife Service (USFWS)

National Fish and Wildlife Foundation funds projects to conserve and restore fish, wildlife, and native plants through matching grant programs. The Foundation awards grants to projects that address priority actions promoting fish and wildlife conservation and the habitats on which they depend, work proactively to involve other conservation and community interests, leverage Foundation-provided funding, and evaluate project outcomes. Federal, state, and local governments, educational institutions, and non-profit organizations are welcome to apply for a grant throughout the year.

NATIONAL FISH PASSAGE PROGRAM

U.S. Fish and Wildlife Service (USFWS)

In 1999, the U.S. Fish and Wildlife Service initiated the National Fish Passage Program to work with others to address the problem of barriers to the migration of fish through streams and rivers. The National Fish Passage Program uses a voluntary, non-regulatory approach to remove and bypass barriers. The program addresses the problem of fish barriers on a national level, working with local communities and partner agencies to restore natural flows and fish migration. The program is administered by national and regional coordinators, and delivered by Fish and Wildlife Management Assistance Offices, with over 300 biologists located across the nation.

NORTH AMERICAN WETLANDS CONSERVATION ACT OF 1989

U.S. Fish and Wildlife Service (USFWS)

The North American Wetlands Conservation Act of 1989 provides matching grants to private or public organizations or to individuals who have developed partnerships to carry out wetlands conservation projects in the United States, Canada, and Mexico. A North American Wetlands Conservation Act standard grant proposal is a 4-year plan of action supported by a NAWCA grant and partner funds to conserve wetlands and wetlands-dependent fish and wildlife through acquisition (including easements and land title donations), restoration and/or enhancement, with a grant request between \$51,000 and \$1,000,000. Small grants (up to \$50,000) are administered separately. Match must be non-Federal and at least equal the grant request (referred to as a 1:1 match). Match is eligible up to 2 years prior to the year the proposal is submitted and grant and match funds are eligible after the proposal is submitted and through the project period.

PARTNERS FOR FISH AND WILDLIFE PROGRAM

U.S. Fish and Wildlife Service (USFWS)

The Partners for Fish and Wildlife Program is the primary mechanism for delivering voluntary on-the-ground habitat improvement projects on private lands for the benefit of federal trust species. The program provides technical and financial assistance to landowners to help meet the habitat needs of federal trust species on private lands.

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP)

The Pennsylvania Department of Environmental Protection can make money available for watershed, drinking water, wastewater and stormwater projects through the following grants:

- Growing Greener Program
- Sewage Treatment Plant Operations Grant
- Small Systems Regionalization Grant
- Small Water Systems Consolidation Construction Grant Program
- Water Resources Education Network "Opportunity Grants"

PRE-DISASTER MITIGATION PROGRAM

Federal Emergency Management Agency (FEMA)

Funding for the program is provided through the National Pre-Disaster Mitigation Fund to assist states and local governments (to include Indian Tribal governments) in implementing cost-effective hazard mitigation activities that complement a comprehensive mitigation program. All applicants must be participating in the National Flood Insurance Program (NFIP) if they have been identified through the NFIP as having a Special Flood Hazard Area (a Flood Hazard Boundary Map (FHBM) or Flood Insurance Rate Map (FIRM) has been issued).

RIVERS, TRAILS AND CONSERVATION ASSISTANCE PROGRAM (RTCA)

National Park Service (NPS)

Rivers & Trails works in communities with the goal of helping communities achieve on-the-ground conservation successes for their projects. The program's focus is on helping communities help themselves by providing expertise and experience. From urban promenades to trails along abandoned railroad rights-of-way to wildlife corridors, their assistance in greenway efforts is wide ranging. Similarly, their assistance in river conservation spans downtown riverfronts to regional water trails to stream restoration.

RIVERS & TRAILS HAS CONSERVATION PROFESSIONALS IN COMMUNITIES NATIONWIDE.

Section 1135 – Habitat Restoration for Fish and Wildlife Resources

U.S. Army Corps of Engineers (USACE)

The Corps of Engineers has the authority, provided under Section 1135 of the Water Resources Act of 1986, as amended, to make modifications in the structures and operations of water resources projects constructed by the Corps or funded jointly with other federal agencies to improve the quality of the environment. The primary goal of these projects is ecosystem restoration with an emphasis on projects benefiting fish and wildlife.

SECTION 206 – FLOODPLAIN MANAGEMENT SERVICES

U.S. Army Corps of Engineers (USACE)

The Corps of Engineers' Floodplain Management Services Program (FPMS), also known as the Section 206 Program, is authorized by Section 206 of the Flood Control Act of 1960, as amended. Under this program, the Corps is authorized to provide a full range of technical services and planning guidance on floods and floodplain issues to municipalities or individuals.

STATE REVOLVING FUND PROGRAMS: CLEAN WATER ACT AND SAFE DRINKING WATER ACT

U.S. Environmental Protection Agency (EPA)

The Safe Drinking Water Act, as amended in 1996, established the Drinking Water State Revolving Fund (DWSRF) to make funds available to drinking water suppliers to finance infrastructure improvements. The program also emphasizes providing funds to small and disadvantaged communities and to programs that encourage pollution prevention as a tool for ensuring safe drinking water.

WATERSHED ASSISTANCE GRANTS

U.S. Environmental Protection Agency (EPA)

EPA's Watershed Assistance Grants are founded on building cooperative agreements with one or more non-profit organization(s) or other eligible entities to support watershed partnerships and long-term effectiveness. Funding then supports organizational development and capacity building for watershed partnerships with a diverse membership.

WETLANDS RESERVE PROGRAM (WRP)

Natural Resource Conservation Service (NRCS)

The Wetlands Reserve Program is a voluntary program offering landowners the opportunity to protect, restore, and enhance wetlands on their property. The USDA Natural Resources Conservation Service (NRCS) provides technical and financial support to help landowners with their wetland restoration efforts. The NRCS goal is to achieve the greatest wetland functions and values, along with optimum wildlife habitat, on every acre enrolled in the program. This program offers landowners an opportunity to establish long-term conservation and wildlife practices and protection.

WILDLIFE HABITAT INCENTIVES PROGRAM (WHIP)

*U.S. Department of Agriculture (USDA);
Natural Resource Conservation Service (NRCS)*

The Wildlife Habitat Incentives Program (WHIP) is a voluntary program for people who want to develop and improve wildlife habitat primarily on private land. Through WHIP USDA's Natural Resources Conservation Service provides both technical assistance and up to 75 percent cost-share assistance to establish and improve fish and wildlife habitat. WHIP agreements between NRCS and the participant generally last five to ten years from the date the agreement is signed. WHIP has proven to be a highly effective and widely accepted program across the country. By targeting wildlife habitat projects on all lands and aquatic areas, WHIP provides assistance to conservation minded landowners who are unable to meet the specific eligibility requirements of other USDA conservation programs. Program administration of WHIP is provided under the Natural Resources Conservation Service.

Listed in Table 7-2 is a matrix of Aquatic Funding Programs.

TABLE 7-2 AQUATIC FUNDING PROGRAMS MATRIX

Program	Agency	Description	Target Audience	Contact
Abandoned Mine Land Program-Clean Streams Initiative	Office of Surface Mining	Charges fees to coal producers that are placed in a dedicated fund for abandoned mine closure and acid mine drainage clean up.	Broad-based citizen, industry, government	Bureau of Mining and Reclamation Grants Contact: Steve Jones RCSOB 5th Floor, P.O. Box 8476 Harrisburg, PA 17105 Phone: 717-787-7669 Fax: 717-783-4675 E-mail: sjones@state.pa.us
C-SAW	Resource Conservation & Development Councils (RC&D's), U.S. Department of Agriculture (USDA)	RC&D Councils are a non-profit organization authorized by the United States Department of Agriculture to provide administrative support to watershed groups across the state of Pennsylvania.	Watershed Groups, non-profit organizations	Suzanne Berkowitz, Program Assistant Pocono Northeast RC&D 1300 Old Plank Road Mayfield, Pennsylvania Phone: 570-282-8732 ext. 4, Fax: 570-281-5379 Email: pnercd@ptd.net
Challenge 21-Flood Hazard Mitigation and Riverine Restoration	U.S. Army Corps of Engineers (US ACE)	Helps relocate frequently flooded homes and restore riparian habitat.	Local Communities, wildlife restoration, conservation and restoration agencies.	Planning Division, Headquarters, U.S. Army Corps of Engineers: 20 Massachusetts Avenue, N.W. Washington, D.C. 20314-1000 Phone: 202-761-0115
Clean Water Act-319 Program	Environmental Protection Agency (EPA)	Through its 319 program, EPA provides formula grants to the states and tribes to implement non-point source projects and programs in accordance with section 319 of the Clean Water Act (CWA).	Local governments, community groups, non-profit conservation, watershed, greenway and trail organizations	U.S. Environmental Protection Agency Office of Wetlands, Oceans and Watersheds Nonpoint Source Control Branch (4503F) Ariel Rios Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460 Phone: 202-260-7100
Coldwater Conservation Fund	Trout Unlimited	Supports scientific and economic research and analysis and science-based watershed restoration projects that further TU's mission.	Conservation organizations, research groups, watershed organizations.	Whit Fosburgh National Office, Trout Unlimited 1500 Wilson Blvd., #310 Arlington, VA 22209-2404 Phone: (800) 834-2419 Fax: 703-284-9400 wfosburgh@tu.org
Community Conservation Partnerships Program	Department of Conservation and Natural Resources (DCNR)	Grants are available to municipalities, counties, municipal and intermunicipal authorities, and river support groups to conserve and enhance river resources.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR RCSOB 6th Floor PO Box 8475 Harrisburg, PA 17105-8551 Phone: 717-783-4734
Conservation Reserve Program (CRP)	U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS)	Provides incentives for farmers and ranchers to implement conservation practices on their lands.	Farmers, ranchers, and conservation districts.	Malcolm Henning, National Program Manager Phone: 202-720-1872 Michele Gidcumb, CRP Soil Conservationist Phone: 202-720-5742

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TABLE 7-2 AQUATIC FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Fisheries Habitat Restoration Program	National Oceanic and Atmospheric Administration (NOAA)	Forges partnership to help communities restore fisheries habitat.	Restoration and conservation organizations, local and state agencies, industry, academia, private landowners and volunteer organizations.	NOAA's Program Planning and Integration 1315 East West Highway Silver Spring, MD 20910 Phone: 301-713-1622 ext. 1632 Fax: 301-713-0585
Growing Greener Program	Commonwealth of Pennsylvania	The total dollar commitment to the Growing Greener Program has been doubled from \$645 million to \$1.3 billion and extended through 2012.	Local governments, community groups, non-profit conservation, watershed, greenway and trail organizations	Growing Greener Grants Center 16th Floor, Rachel Carson State Office Building P.O. Box 2063 Harrisburg, PA 17105-2063 Phone: 717-705-5400
National Corporate Wetlands Restoration Partnership (CWRP)	U.S. Army Corps of Engineers (USACE)	The National Corporate Wetlands Restoration Partnership (CWRP) is a public-private partnership between the federal government, state governments and private corporations to restore wetlands and other aquatic habitats.	Participating private foundations or state trust funds to protect aquatic ecosystem restoration projects.	William Hubbard, US Army Corps of Engineers 696 Virginia Rd Concord MA 01742 Phone: 978-318-8238
National Fish and Wildlife Foundation (NFWF)	U.S. Fish and Wildlife Service (USFWS)	Conserves fish, wildlife, plants and the habitat upon which they depend through public-private partnerships and project grants.	Private, Non-profit organizations	Grants and Programs; Eastern Region Tom Kelsch, Director Phone: 202-857-0166 Fax: 202-857-0162 1120 Connecticut Avenue, NW, Suite 900 Washington, DC 20036
National Fish Passage Program	U.S. Fish and Wildlife Service (USFWS)	Provides opportunities for communities to restore natural river functions and native fish populations by removing or circumventing barriers to fish passage.	Local Communities, state, tribal, and federal agencies	Northeast Fish Passage Coordinator: David Perkins 300 Westgate Center Drive Hadley, MA 01035-9589 Phone: 413-253-8405 Fax: 413-253-8488 Web Site: fisheries.fws.gov/FWSMA/fishpassage
North American Wetland Conservation Grants Program	U.S. Fish and Wildlife Service (USFWS)	Provides matching grants to private or public organizations or to individuals to protect and restore wetland ecosystems throughout North America.	Private or public organizations or to individuals	Standard Grants proposals: David Buie E-Mail Address: david_buie@fws.gov Phone: 301-497-5870 Small Grants Program proposals: Keith Morehouse E-Mail Address: keith_morehouse@fws.gov Phone: 703-358-1888. General office number: 703-358-1784.

TABLE 7-2 AQUATIC FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Partners for Fish and Wildlife	U.S. Fish and Wildlife Service	Helps landowners plan and design habitat management/restoration projects.	Private landowners, conservation organizations.	Assistant Director - Fisheries and Habitat Conservation Mamie Parker , Assistant Director (AF) U.S. Fish and Wildlife Service 1849 C Street, N.W. Washington, D.C. 20240 Phone: 202-208-6394 ext 3245
<ul style="list-style-type: none"> • Sewage Treatment Plant Operations Grant • Small Systems Regionalization Grant • Small Water Systems Consolidation Construction Grant Program • Water Resources Education Network "Opportunity Grants • Growing Greener Program 	Pennsylvania Department of Environmental Protection (PA DEP)	The Pennsylvania Department of Environmental Protection can make money available for watershed, drinking water, wastewater and stormwater projects.	Non-Profit organizations, municipalities, watershed and local communities.	Northeastern Regional Field Office 2 Public Square Wilkes-Barre, PA 18711-0790 Mark Carmon / Community Relations Coordinator Phone: 570-826-2511 www.state.pa.us
Pre-Disaster Mitigation Program	Federal Emergency Management Agency (FEMA)	Helps communities reduce losses from floods and other events by restoring and protecting healthy, more natural ecosystems.	Municipalities, local governments	Mitigation Division Region III One Independence Mall, 6th floor 615 Chestnut St. Philadelphia, PA 19106-4404 Phone: 215-931-5608
Rivers, Trails, and Conservation Assistance Program (RTCA)	National Park Service (NPS)	Provides advice and counsel to communities on river protection initiatives.	Local Communities, Tribal groups, conservation organizations.	Rivers & Trails provides assistance to non-profit organizations, community groups, tribes or tribal governments, and local or State government agencies. This may include aquatic assistance for river conservation and watershed planning projects.
Section 1135-Habitat Restoration for Fish and Wildlife Resources	U.S. Army Corps of Engineers (US ACE)	Increases and restores habitat affected by dams and flood control projects.	State, regional, local governments or other non-Federal public agencies	Mr. Russ Rote, P.E. Chief, Flood Control and Flood Plain Management Section E-mail: Russ.L.Rote@saj02.usace.army.mil Phone: 904-232-2232

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TABLE 7-2 AQUATIC FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Section 206-Flood Plain Management Services	U.S. Army Corps of Engineers (US ACE)	Increases and restores habitat affected by dams and flood control projects.	State, regional, local governments or other non-Federal public agencies	Mr. Russ Rote, P.E. Chief, Flood Control and Flood Plain Management Section E-mail: Russ.L.Rote@saj02.usace.army.mil Phone: 904-232-2232
State Revolving Fund Programs-Clean Water Act and Safe Drinking Water Act	Environmental Protection Agency (EPA)	Funds projects that reduce non-point pollution, protect estuaries, prevent contamination of drinking source waters, and reduce polluted runoff by protecting natural area and other "green infrastructure."	Municipalities, local governments	U.S. Environmental Protection Agency Office of Wetlands, Oceans and Watersheds Nonpoint Source Control Branch (4606M) Ariel Rios Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460 SDWA hotline: (800) 426-4791
Watershed Assistance Grants	Environmental Protection Agency (EPA)	Supports innovative efforts that build the capacity of community-based partnerships to conserve and restore watersheds.	Watershed partnerships, non-profit organizations	U.S. Environmental Protection Agency Office of Wetlands, Oceans and Watersheds (4501T) Ariel Rios Bldg., 1200 Pennsylvania Ave., NW, Washington, DC 20460 Phone: 202-566-1291 E-Mail Address: cole.james@epa.gov Web Site: www.epa.gov/owow/watershed/wacademy/fund.html
Wetlands Reserve Program (WRP)	Natural Resources Conservation Service (NRCS)	Provides incentives for landowners to protect, restore, and enhance wetlands and associated uplands on private lands.	Recreational organizations, rural communities, recreationist groups.	Leslie Deavers, 202-720-1067
Wildlife Habitat Incentives Program (WHIP)	Natural Resources Conservation Service (NRCS)	Provides financial incentives to develop habitat for fish and wildlife on private lands.	Conservation Districts, wildlife conservation groups, State wildlife agencies and non-profit and private organizations.	Martha Joseph, 202-720-7157

c. Funding Land Components

AGRICULTURAL LAND PRESERVATION FUND

*U.S. Department of Agriculture (USDA);
Pennsylvania Bureau of Farmland Protection*

State funding in Pennsylvania for open space preservation and protection comes from a variety of programs. The most successful such program is the Agricultural Land Preservation Fund, which is administered by the Bureau of Farmland Protection within the Department of Agriculture. Its purpose is to purchase development rights (agricultural conservation easements) on lands containing high-ranking soil classification, for the purpose of keeping the land open for agriculture. The program requires that each county that wishes to participate must create an Agricultural Land Preservation Board to administer the program. The county must also contribute some of its own funds, which are then matched with substantially more money by the state. The state money comes from a levy on the real-estate transfer tax, a levy on the cigarette tax, and, at times, from bond issues. The county money can come from tax revenue or bond issues. Pennsylvania is a national leader in the protection and preservation of agricultural lands.

COMMUNITY CONSERVATION PARTNERSHIPS PROGRAM

The Department of Conservation and Natural Resources (DCNR)

The Department of Conservation and Natural Resources is another leading source of funds for land preservation. Money from its Keystone grants program (which receives money from Pennsylvania's Growing Greener initiative) has been used to purchase both land and conservation easements. DCNR makes purchases of land or easements on its own through the Bureau of Forestry and Bureau of State Parks, but it also grants funds to land trusts, conservancies, and municipalities to enable them to acquire land and easements. This is a competitive grant program in which applications are reviewed and ranked by DCNR, and then awards are made to successful applicants annually.

COMPREHENSIVE RECREATION, PARK AND OPEN SPACE PLANS

Pennsylvania Department of Conservation & Natural Resources (DCNR)

There are grants to develop a comprehensive long-range planning document that provides strategies to address a municipality's recreation, park and open space needs.

CONSERVATION RESERVE PROGRAM (CRP)

*U.S. Department of Agriculture (USDA);
Natural Resource Conservation Service (NRCS)*

The Conservation Reserve Program (CRP) provides technical and financial assistance to eligible farmers and ranchers to address soil, water, and related natural resource concerns on their lands in an environmentally beneficial and cost-effective manner. The program provides assistance to farmers and ranchers in complying with federal, state, and tribal environmental laws, and encourages environmental enhancement. The program is funded through the Commodity Credit Corporation (CCC). CRP is administered by the Farm Service Agency, with NRCS providing technical land eligibility determinations, Environmental Benefit Index Scoring, and conservation planning.

THE DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT (DCED)

The Department of Community and Economic Development can also make money available for land protection and preservation projects at the request of members of the Pennsylvania Legislature. The money can be granted to municipalities as well as land trusts, conservancies, or other non-profits. The mission of the Department of Community and Economic Development (DCED) is to foster opportunities for businesses and communities to succeed and thrive in a global economy, thereby enabling Pennsylvanians to achieve a superior quality of life.

ENVIRONMENTAL QUALITY INCENTIVES PROGRAM (EQIP)

*U.S. Department of Agriculture (USDA);
Natural Resource Conservation Service (NRCS)*

EQIP is a voluntary USDA/NRCS conservation program for producers to treat soil, water and related natural resource concerns. It provides technical and financial assistance to promote environmental quality in agricultural production. The Environmental Quality Incentives Program (EQIP) was reauthorized in the Farm Security and Rural Investment Act of 2002 (Farm Bill) to provide a voluntary conservation program for farmers and ranchers that promotes agricultural production and environmental quality as compatible national goals. Only agricultural producers, individuals or entities engaged in livestock or agricultural production may participate in EQIP program.

FARM AND RANCH LANDS PROTECTION PROGRAM

*U.S. Department of Agriculture (USDA);
Natural Resource Conservation Service (NRCS)*

The Farm and Ranch Land Protection Program (FRPP) provides matching funds to help purchase development rights to keep productive farm and ranchland in agricultural uses. Working through existing programs, USDA partners with state, tribal, or local governments and non-governmental organizations to acquire conservation easements or other interests in land from landowners. USDA provides up to 50 percent of the fair market easement value.

FOREST LEGACY PROGRAM (FLP)

U.S. Forest Service (USFS)

The Forest Legacy Program, relatively new (to Pennsylvania), is similar to the agricultural program. It uses money from federal sources, matched by state, county, or local sources to purchase development rights from owners of land containing timber resources. Landowners are not required to timber land preserved through the FLP, but timbering cannot be prohibited under these easements

GREEN FUTURE FUND

Northampton County; Lehigh County

The Green Future Fund was created to preserve green space in Lehigh and Northampton counties. The funds will be used to buy farmland easements, create new parks and maintain existing ones, used to create and enhance nature trails and greenways, and to protect waterways.

LAND AND WATER CONSERVATION FUND (LWCF)

*Department of the Interior;
U.S. Forest Service (USFS)*

The LWCF program provides matching grants to states and local governments for the acquisition and development of public outdoor recreation areas and facilities. The program is intended to create and maintain a nationwide legacy of high quality recreation areas and facilities and to stimulate non-federal investments in the protection and maintenance of recreation resources across the United States.

MONROE COUNTY INITIATIVE PROGRAM

Monroe County Planning Commission

Provides funding for land conservation and protection of open space in Monroe County.

PENNSYLVANIA "GROWING SMARTER" INITIATIVE

Pennsylvania Department of Community and Economic Development (DCED)

The Department of Community and Economic Development can also make money available for land protection and preservation projects at the request of members of the Pennsylvania Legislature. The money can be granted to municipalities as well as land trusts, conservancies, or other non-profits.

PRE-DISASTER MITIGATION PROGRAM

Federal Emergency Management Agency (FEMA)

Funding for the program is provided through the National Pre-Disaster Mitigation Fund to assist states and local governments (to include Indian Tribal governments) in implementing cost-effective hazard mitigation activities that compliment a comprehensive mitigation program. All applicants must be participating in the National Flood Insurance Program (NFIP) if they have been identified through the NFIP as having a Special Flood Hazard Area (a Flood Hazard Boundary Map (FHBM) or Flood Insurance Rate Map (FIRM) has been issued).

RIVERS, TRAILS AND CONSERVATION ASSISTANCE PROGRAM (RTCA)

National Park Service (NPS)

Rivers & Trails works in communities with the goal of helping communities achieve on-the-ground conservation successes for their projects. Our focus is on helping communities help themselves by providing expertise and experience from around the nation. From urban promenades to trails along abandoned railroad rights-of-way to wildlife corridors, our assistance in greenway efforts is wide ranging. Similarly, our assistance in river conservation spans downtown riverfronts to regional water trails to stream restoration. Rivers & Trails has conservation professionals in communities nationwide.

SMALL COMMUNITIES PLANNING ASSISTANCE PROGRAM (SCPAP)

Pennsylvania Department of Community and Economic Development (DCED)

The Small Communities Planning Assistance Program provides up to 100 percent of the cost to prepare multi-municipal Comprehensive Plans and implementing ordinances. Program guidelines emphasize compliance with CDBG Program requirements.

STATE PLANNING ASSISTANCE PROGRAM (SPAG)

Governor's Center for Local Government Services

The State Planning Assistance Program provides 50-50 matching funds for visioning and comprehensive planning projects involving multi-municipal efforts. The World Class Communities Program (WCCP) also provides funds up to 50 percent for multi-municipal planning and visioning efforts.

TEA-21 INTERMODAL SURFACE TRANSPORTATION ENHANCEMENT ACT

The Pennsylvania Department of Transportation (PENNDOT)

The Pennsylvania Department of Transportation administers federal funds received through the (known as ISTEA, or currently, T-21). These funds can be used for purchase of land or easements through a competitive application process. Projects such as trails or other lands that enhance the public's ability to move from one place to another receive the most favorable consideration.

Listed in Table 7-3 is a matrix of Land Funding Programs.

Program	Agency	Description	Target Audience	Contact
American Farmland Trust	Bureau of Farmland Preservation	The bureau oversees the Commonwealth's program to purchase agricultural easements and administers legislative programs designed to preserve farmland through the State Agricultural Preservation Board.	Farmers and ranchers.	Bureau of Farmland Preservation at Phone: 717-783-3167
Community Conservation Partnerships Program	The Department of Conservation and Natural Resources (DCNR)	Makes purchases of land or easements on its own through the Bureau of Forestry and of State Parks, but it also grants Bureau funds to land trusts, conservancies, and municipalities to enable them to acquire land and easements.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR Phone: 717-783-4734
Comprehensive Recreation, Park and Open Space Plans	The Department of Conservation and Natural Resources (DCNR)	Grants to develop a comprehensive long-range planning document that provides strategies to address a municipality's recreation, park and open space needs.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR Phone: 717-783-4734
Conservation Reserve Program (CRP)	U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS)	Provides incentives for farmers and ranchers to implement conservation practices on their lands.	Farmers, ranchers, and conservation districts.	Malcolm Henning, National Program Manager Phone: 202-720-1872 Michele Gidcumb, CRP Soil Conservationist Phone: 202-720-5742

TABLE 7-3 LAND FUNDING PROGRAMS MATRIX

Program	Agency	Description	Target Audience	Contact
Environmental Quality Incentives Program (EQIP)	U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS)	Helps farmers and ranchers develop resource conservation practices.	Farmers, ranchers, conservation organizations, conservation districts,	Anthony Esser, National EQIP Program Manager Phone: 202-720-1840 Edward Brzostek, Acting Program Manager Phone: 202-720-1834
Farm and Ranch Lands Protection Program	U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS)	Provides matching funds to help purchase development rights to keep productive farm and ranchland in agricultural uses.	Farmers and ranchers.	Denise C. Coleman National FRPP Manager Phone: 202-720-9476
Forest Legacy Program (FLP)	U.S. Forest Service (USFS)	Uses money from federal sources, matched by state, county, or local sources to purchase development rights (agricultural conservation easements) from owners of land containing timber resources.	Private forest land owners	Deirdre Raimo, Program Coordinator USDA Forest Service P.O. Box 640, 271 Mast Road Durham, NH 03824 Phone: 603-868-7695 Fax: 603-868-7604 E-mail: draimo@fs.fed.us
Green Future Funds	Northampton County; Lehigh County	Created to preserve green space in Lehigh and Northampton Counties. The funds will be used to buy farmland easements, create new parks and maintain existing ones, used to create and enhance nature trails and greenways, and to protect waterways.	Farmers, conservation organizations, sportsman groups, inner city organizations, and builders associations.	Bob Korp Director of Planning County of Lehigh 17 South Seventh Street Allentown, PA 18101-2400 Phone: 610-782-3001
Land and Water Conservation Fund (LWCF)	Department of the Interior; U.S. Forest Service (USFS)	Acquires ecologically important federal/state land.	State and Local conservation and land easement organizations	Recreation and Conservation Dept. of Conservation and Natural Resources P.O. Box 8767 Harrisburg, PA 17105 Phone: 717-783-2659
Monroe County Initiative Program; Natural Area Land Trust Program; County Natural Areas/ Passive Recreation Lands	Monroe County Planning Commission	Conservation of Lands and Protection of open space in Monroe County.	County initiatives to protect lands	Monroe County Planning Commission Administrative Center 1 Quaker Plaza, Room 106 Stroudsburg, PA 18360-2169 David Albright, Open Space Coordinator Phone: 570-517-3149 Fax: 570-420-3564 E-Mail Address: dalbright@co.monroe.pa.us

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TABLE 7-3 LAND FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Pennsylvania "Growing Smarter" Initiative	Pennsylvania Department of Community and Economic Development (DCED)	To encourage sound land management practices, the Center offers a wide range of tools to support wise decisions about land use and encourage strong communities, economic development, a healthy environment and an improved quality of life.	Local governments and communities.	Governor's Center for Local Government Services Department of Community and Economic Development 4th Floor, Commonwealth Keystone Building Harrisburg, PA 17120-0225 (voice) 888-223-6837 E-Mail Address: feedback@landuseinpa.com
Pre-Disaster Mitigation Program	Federal Emergency Management Agency (FEMA)	Helps communities reduce losses from floods and other events by restoring and protecting healthy, more natural ecosystems.	Municipalities, local governments	Mitigation Division Region III One Independence Mall, 6th floor 615 Chestnut St. Philadelphia, PA 19106-4404 Phone: 215-931-5608
Rivers, Trails, and Conservation Assistance Program (RTCA)	National Park Service (NPS)	Provides assistance to non-profit organizations, community groups, tribes or tribal governments, and local or State government agencies. This may include land assistance for urban greening, and open space protection projects	Local Communities, Tribal groups, conservation organizations.	Rivers & Trails provides assistance to non-profit organizations, community groups, tribes or tribal governments, and local or State government agencies. This may include aquatic assistance for river conservation and watershed planning projects.
Small Communities Planning Assistance Program (SCPAP)	PA Department of Community and Economic Development (PA DCED)	Provides grants up to 100% of the costs to eligible municipalities to prepare comprehensive plans, development regulations and special strategies for development. Generally, 51% of the municipality's residents must be low or moderate income, according to the census or a survey. Limited to municipalities under 10,000 population	Local governments and communities.	Governor's Center for Local Government Services Department of Community and Economic Development 4th Floor, Commonwealth Keystone Building Harrisburg, PA 17120-0225 (voice) 888-223-6837 E-Mail Address: feedback@landuseinpa.com
State Planning Assistance Program (SPAG)	Governor's Center for Local Government Services	Provides 50-50 matching funds for visioning and comprehensive planning projects involving multi-municipal efforts. The World Class Communities Program (WCCP) also provides funds up to 50 percent for multi-municipal planning and visioning efforts.	Local governments and communities.	Governor's Center for Local Government Services State Office 4th Floor, Commonwealth Keystone Building 400 North Street Harrisburg, Pennsylvania 17120-0225 Kenneth Klothen / Executive Director Phone: 888-223-6837 E-Mail Address: ra-dcedclgs@state.pa.us

TABLE 7-3 LAND FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Tea-21 Intermodal Surface Transportation Enhancement Act	Pennsylvania Department of Transportation (PENNDOT)	Funds can be used for purchase of land or easements through a competitive application process. Projects such as trails or other lands that enhance the public's ability to move from one place to another receive the most favorable consideration.	Any federal or state agency, county or municipal government or non-profit organization	Pennsylvania Department of Transportation Center for Program Development and Management\ P.O. Box 3365 Harrisburg, PA 17105-3365 Attention: Dan Accurti

d. Funding Biological Components

COLDWATER CONSERVATION FUND

Trout Unlimited

Trout Unlimited's Coldwater Conservation Fund (CCF) supports scientific and economic research and analysis and science-based watershed restoration projects that further Trout Unlimited's mission. Each year, the Cold Conservation Fund (CCF) funds more than \$1 million in biological and economic research and watershed-scale demonstration projects.

FISHERIES HABITAT RESTORATION PROGRAM

National Oceanic and Atmospheric Administration (NOAA)

The NOAA Habitat Restoration Program (Restoration Program) is a cross-line office program that leads and coordinates NOAA's restoration activities to fulfill the NOAA habitat restoration mission in a coordinated and effective manner. This cooperative approach provided through the Restoration Program fosters data and information exchange among NOAA's restoration programs.

NATIONAL FISH AND WILDLIFE FOUNDATION (NFWF)

U.S. Fish and Wildlife Service (USFWS)

National Fish and Wildlife Foundation funds projects to conserve and restore fish, wildlife, and native plants through matching grant programs. The Foundation awards matching grants to projects that address priority actions promoting fish and wildlife conservation and the habitats on which they depend, work proactively to involve other conservation and community interests, leverage Foundation-provided funding, and evaluate project outcomes. Federal, state, and local governments, educational institutions, and non-profit organizations are welcome to apply for a general matching grant throughout the year.

NATIONAL FISH PASSAGE PROGRAM

U.S. Fish and Wildlife Service (USFWS)

In 1999, the U.S. Fish and Wildlife Service initiated the National Fish Passage Program to work with others to address this problem. The National Fish Passage Program uses a voluntary, non-regulatory approach to remove and bypass barriers. The program addresses the problem of fish barriers on a national level, working with local communities and partner agencies to restore natural flows and fish migration. The program is administered by national and

regional coordinators, and delivered by Fish and Wildlife Management Offices, with their 300 biologists located across the Nation. Appropriations for the program support the coordinators, in-the-water fish passage projects, and the Fish Passage Decision Support System.

NEOTROPICAL MIGRATORY BIRD CONSERVATION ACT

U.S. Fish and Wildlife Service (USFWS)

Passed by the U.S. Congress in 2000, the Neotropical Migratory Bird Conservation Act establishes a matching grants program to fund projects that promote the conservation of these birds in the United States, Latin America, and the Caribbean. The Act's purposes are to perpetuate healthy populations of neotropical migratory birds. Any U.S., Latin American, or Caribbean individual, corporation, government agency, trust, association, or other private entity can apply for funding.

PARTNERS FOR FISH AND WILDLIFE PROGRAM

U.S. Fish and Wildlife Service (USFWS)

The Partners for Fish and Wildlife Program is the primary mechanism for delivering voluntary on-the-ground habitat improvement projects on private lands for the benefit of federal trust species. The program provides technical and financial assistance to landowners to help meet the habitat needs of federal trust species on private lands.

STATE WILDLIFE GRANTS (SWG) PROGRAM

Pennsylvania Game Commission (PGC);

Pennsylvania Fish and Boat Commission (PFBC)

Congress has funded the State Wildlife Grants (SWG) program, which provides federal funding to the Pennsylvania Game Commission (PGC) and Pennsylvania Fish & Boat Commission (PFBC) for managing and recovering species of greatest conservation concern. The PGC and PFBC solicit project proposals from organizations across the Commonwealth for consideration to receive funds under the SWG program. Projects of all sizes are considered, however funds in this program are only available on a reimbursement basis, so qualifying organizations must be able to support the project prior to reimbursements.

WILDLIFE HABITAT INCENTIVES PROGRAM (WHIP)

U.S. Department of Agriculture (USDA);

Natural Resource Conservation Service (NRCS)

The Wildlife Habitat Incentives Program (WHIP) is a voluntary program for people who want to develop and improve wildlife habitat primarily on private land. Through WHIP USDA's Natural Resources Conservation Service provides both technical assistance and up to 75 percent cost-share assistance to establish and improve fish and wildlife habitat. WHIP agreements between NRCS and the participant generally last five to ten years from the date the agreement is signed.

WHIP has proven to be a highly effective and widely accepted program across the country. By targeting wildlife habitat projects on all lands and aquatic areas, WHIP provides assistance to conservation minded landowners who are unable to meet the specific eligibility requirements of other USDA conservation programs. Program administration of WHIP is provided under the Natural Resources Conservation Service.

TABLE 7-4 BIOLOGICAL FUNDING PROGRAMS MATRIX

Program	Agency	Description	Target Audience	Contact
Coldwater Conservation Fund	Trout Unlimited	Supports scientific and economic research and analysis and science-based watershed restoration projects that further TU's mission.	Conservation organizations, research groups, watershed organizations.	Whit Fosburgh National Office, Trout Unlimited 1500 Wilson Blvd., #310 Arlington, VA 22209-2404 Phone: (800) 834-2419 Fax: 703-284-9400 wfosburgh@tu.org
Fisheries Habitat Restoration Program	National Oceanic and Atmospheric Administration (NOAA)	Forges partnership to help communities restore fisheries habitat.	Restoration and conservation organizations, local and state agencies, industry, academia, private landowners and volunteer organizations.	NOAA's Program Planning and Integration 1315 East West Highway Silver Spring, MD 20910 Phone: 301-713-1622 ext. 1632 Fax: 301-713-0585
National Fish and Wildlife Foundation (NFWF)	U.S. Fish and Wildlife Service (USFWS)	Conserves fish, wildlife, plants and the habitat upon which they depend through public-private partnerships and project grants.	Private, Non-profit organizations	Grants and Programs; Eastern Region Tom Kelsch, Director Phone: 202-857-0166 Fax: 202-857-0162 1120 Connecticut Avenue, NW, Suite 900 Washington, DC 20036
National Fish Passage Program	U.S. Fish and Wildlife Service (USFWS)	Provides opportunities for communities to restore natural river functions and native fish populations by removing or circumventing barriers to fish passage.	Local Communities, state, tribal, and federal agencies	Northeast Fish Passage Coordinator: David Perkins 300 Westgate Center Drive Hadley, MA 01035-9589 Phone: 413-253-8405 Fax: 413-253-8488 Web Site: fisheries.fws.gov/ FWSMA/fishpassage
Neotropical Migratory Bird Conservation Act (Act)	U.S. Fish and Wildlife Service (USFWS)	Passed by the U.S. Congress in 2000, the Neotropical Migratory Bird Conservation Act (Act) establishes a matching grants program to fund projects that promote the conservation of these birds in the United States, Latin America, and the Caribbean.	Any U.S., Latin American, or Caribbean individual, corporation, government agency, trust, association, or other private entity can apply for funding.	Division of Bird Habitat Conservation Phone: 703-358-1784 E-Mail Address: neotropical@fws.gov

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TABLE 7-4 BIOLOGICAL FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Partners for Fish and Wildlife	U.S. Fish and Wildlife Service (USFWS)	Helps landowners plan and design habitat management/ restoration projects.	Private landowners, conservation organizations.	Assistant Director-Fisheries and Habitat Conservation Mamie Parker , Assistant Director (AF) U.S. Fish and Wildlife Service 1849 C Street, N.W. Washington, D.C. 20240 Phone: 202-208-6394 ext 3245
State Wildlife Grants (SWG) Program	Pennsylvania Game Commission (PGC); Pennsylvania Fish and Boat Commission (PFBC)	Congress has funded the State Wildlife Grants (SWG) program, which provides federal funding to the PA Game Commission (PGC) and PA Fish & Boat Commission (PFBC) for managing and recovering species of greatest conservation concern.	Sporting and conservation organizations	Patti Barber Game Commission's Bureau of Wildlife Management Phone: 717-787-5529
Wildlife Habitat Incentives Program (WHIP)	Natural Resources Conservation Service (NRCS)	Provides financial incentives to develop habitat for fish and wildlife on private lands.	Conservation Districts, wildlife conservation groups, State wildlife agencies and non-profit and private organizations.	Martha Joseph, 202-720-7157

e. Funding Recreational Components

COMMUNITY CONSERVATION PARTNERSHIPS PROGRAM

The Department of Conservation and Natural Resources (DCNR)

Community Grants are awarded to municipalities for recreation, park and conservation projects. These include the rehabilitation and development of parks and recreation facilities; acquisition of land for park and conservation purposes; and technical assistance for feasibility studies, trails studies, and site development planning. Pennsylvania Recreational Trails Program Grants provide funds to develop and maintain recreational trails and trail related facilities for motorized and nonmotorized recreational trail use. These are competitive grants in which applications are reviewed and ranked by DCNR, and then awards are made to successful applicants annually.

COMPREHENSIVE RECREATION, PARK AND OPEN SPACE PLANS

Pennsylvania Department of Conservation & Natural Resources (DCNR)

These are grants to develop a comprehensive long-range planning document that provides strategies to address a municipality's recreation, park and open space-needs.

LUZERNE COUNTY GREENSPACE ALLIANCE

Greater Wilkes-Barre Chamber of Business and Industry

The Luzerne County Greenspace Alliance provides matching grants to municipalities, non-profit and greenway organizations located within Luzerne County for planning and outdoor

recreation projects. Matching funds are available for public outdoor recreation projects including Rails-to-Trails, watershed management plans, trails, and greenways. It is a competitive program in which applications are reviewed and ranked by Greenspace Alliance, and then awards are made to successful applicants annually.

RIVERS, TRAILS AND CONSERVATION ASSISTANCE PROGRAM (RTCA)

National Park Service (NPS)

Rivers & Trails works in urban, rural, and suburban communities with the goal of helping communities achieve on-the-ground conservation successes for their projects. The program’s focus is on helping communities help themselves by providing expertise and experience from around the nation. From urban promenades to trails along abandoned railroad rights-of-way to wildlife corridors, their assistance in greenway efforts is wide ranging. Similarly, their assistance in river conservation spans downtown riverfronts to regional water trails to stream restoration.

Rivers & Trails has conservation professionals in communities nationwide.

STATE COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) PROGRAM

U.S. Department of Housing and Urban Development (HUD)

The State CDBG Program provides states with annual direct grants, which they in turn award to smaller communities and rural areas for use in revitalizing neighborhoods, expanding affordable housing and economic opportunities, and/or improving community facilities and services.

Listed in Table 7-5 is a matrix of Recreational Funding Programs

Program	Agency	Description	Target Audience	Contact
Community Conservation Partnerships Program	The Department of Conservation and Natural Resources (DCNR)	Community Grants are awarded to municipalities for recreation, park and conservation projects. These include the rehabilitation and development of parks and recreation facilities; acquisition of land for park and conservation purposes; and technical assistance for feasibility studies, trails studies, and site development planning.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR RCSOB 6th Floor PO Box 8475 Harrisburg, PA 17105-8551 Phone: 717-783-4734
Comprehensive Recreation, Park and Open Space Plans	The Department of Conservation and Natural Resources (DCNR)	Grants to develop a comprehensive long-range planning document that provides strategies to address a municipality’s recreation, park and open space needs.	Local communities, non-profits and other organizations for recreation and conservation projects.	The Grants Project Management Division of DCNR RCSOB 6th Floor PO Box 8475 Harrisburg, PA 17105-8551 Phone: 717-783-4734

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TABLE 7-5 RECREATIONAL FUNDING PROGRAMS MATRIX (continued)

Program	Agency	Description	Target Audience	Contact
Luzerne County Greenspace Alliance	Greater Wilkes-Barre Chamber of Business and Industry	Provides matching grants to municipalities, non-profit and greenway organizations located within Luzerne County for planning of outdoor recreation projects.	Municipalities, Non-Profit Organizations, Rails-to-Trails	Thomas Ruskey 2 Public Square, P.O. Box 5340 Wilkes-Barre, PA 18710-5340 Phone: 570-823-2101 E-Mail Address: truskey@wilkes-barre.org
Rivers, Trails, and Conservation Assistance Program (RTCA)	National Park Service (NPS)	Provides assistance to non-profit organizations, community groups, tribes or tribal governments, and local or State government agencies. This may include recreational assistance for trails and greenway planning and rail-trail conversion projects.	Local Communities, Tribal groups, conservation organizations.	National Park Service Rivers Trails, and Conservation Assistance Program 1849 C Street, NW, Org. Code 2220 Washington, D.C. 20240 202-354-6900 E-Mail Address: Sam_Stokes@nps.gov Web Site: www.nps.gov/rivers
State Community Development Block Grant (CDBG) Program	U.S. Department of Housing and Urban Development (HUD)	Provides States with annual direct grants, which they in turn award to smaller communities and rural areas for use in revitalizing neighborhoods, expanding affordable housing and economic opportunities, and/or improving community facilities and services.	Local Governments and communities.	State and Small Cities Division Rm. 7184, 451 7th Street, SW, Washington, DC 20410, Phone: 202-708-1322.

Additional information on projects already funded through the states Growing Greener Grant Program in the Lehigh River watershed are shown in Appendix D – 2.

3. TOOLS

a. Aquatic

1. ABANDONED MINE DRAINAGE TREATMENT AND ELIMINATION TECHNOLOGY

Preventing acid drainage from surface mines requires the elimination of water movement through acid material. Separating and covering acid-forming materials with non-toxic soil, grading the surface to divert water away from the reclaimed areas and planting grasses and trees to stabilize the soil accomplish this. Water flowing from the restoration may also be treated to improve its quality before it enters nearby streams

Most acid drainage originates in abandoned underground coalmines and is carried by surface or groundwater into nearby streams. Filling or sealing the old shafts to eliminate acid production is expensive, and results are inconsistent. For this reason, water treatment has been the most practical solution to the problem (Michaud, 1994).

Methods of water treatment used to eliminate acid mine drainage from abandoned underground mines can be grouped into two types. The most common method is chemical treatment. Called “active” treatment because it requires constant maintenance, this method usually involves neutralizing acid-polluted water with hydrated lime or crushed limestone. This treat-

ment reduces acidity and significantly decreases iron and other metals. However, it is expensive to construct and operate and is considered a temporary measure because the acid drainage problem has not been permanently eliminated. The second treatment method is called biological, or "passive," control. This technology involves the construction of a treatment system that is more permanent and requires little or no maintenance. Passive control measures involve the use of anoxic drains, limestone rock channels, alkaline recharge of groundwater and diversion of drainage through man-made wetlands or other settling structures. Passive treatment systems are relatively inexpensive to construct and have been very successful on some small discharges of acid drainage (Michaud, 1994).

Prevention and Minimization of AMD Formation

For the formation of AMD, three components are required: sulfur-bearing material, water, and air. Certain bacteria also act to catalyze the oxidation of the pyrite. If any one of these components can be eliminated, AMD generation will not occur.

At active surface mining operations, the volume of surface runoff entering the site can be minimized by using perimeter diversion ditches, by relocating stream channels, and by grouting or lining streambeds to prevent water loss to the spoil. Sealing the spoil piles with an impermeable capping material such as fly ash, cemented fly ash, clay, or geopolymers can minimize infiltration of surface runoff and air. The optimization of the long-term effectiveness of these capping materials is presently being investigated by a number of research groups. Where conditions are suitable, pyretic spoil can also be effectively isolated from oxygen by placing it underwater in flooded pits, or by encapsulation with an impervious material (Michaud, 1996).

In underground operations, grouting of fractured overburden can be used to prevent the infiltration of surface water into the mine workings. Research is also being carried out to determine the effectiveness of injecting alkaline materials such as cemented fly ash into the underground workings. This could reduce the formation of AMD by coating the surface of the reactive pyrite. Because fly ash is a waste product from the power generation industry, it is inexpensive; its usage could provide a beneficial means of disposing of ash (Michaud, 1996).

Several methods are presently being investigated for their ability to inhibit AMD formation or to treat it in situ. When added to pyretic material, phosphate can form an extremely insoluble surface coating of ferric phosphate, thereby inhibiting the AMD formation reactions. Although very effective in the laboratory, the practicality, and economics of this method in the field have yet to be demonstrated (Michaud, 1996).

AMD generation can also be inhibited by the addition of bactericides or surfactants to the pyretic spoil. This technique is, however, expensive and not permanent. The addition of alkaline substances like limestone to the spoil material by mixing or layering can be used to neutralize acidity and to inhibit the acid-forming reactions. However, unless integrated with an ongoing spoiling operation, the cost of excessive material movement may be prohibitive. Alkaline solutions or slurries can also be injected into the spoil material, or the surface drainage diverted through ponds filled with alkaline material. This method can temporarily inhibit the acid-forming reaction and neutralize the AMD (Sobek, 1990).

Passive Treatment After AMD Formation

Constructed Wetlands: Passing AMD through wetlands (natural or constructed) can decrease the concentration of dissolved metals in the water, decrease acidity, and trap sediment. The basic mechanisms identified for the retention of metals include the

accumulation of metals in living plants and in the organic substrate, the exchange and organic complexation reactions with the substrate, and chemical and microbiological oxidation and reduction reactions that lead to precipitation.

There are aerobic and anaerobic constructed wetlands. Aerobic systems consist of wetlands of cattails or more diverse vegetation growing in a clay soil or mine spoil substrate. These conditions increase levels of oxygen in the substrate, and promote oxidation and precipitation of metals. Anaerobic wetlands are constructed with a thicker organic substrate composed of organic material such as hay, manure, peat moss, or mushroom compost. The main purpose of this design is to create an environment where oxygen content is restricted in order to promote the anaerobic sulfate reduction of metals (Watzlaf, 1995).

Anoxic Limestone Drains (ALD): The theory of Anoxic Limestone Drains (ALDs) is quite simple. Acid Mine Drainage is passed through a bed of limestone gravel that is buried to limit the input of oxygen. As the AMD dissolves the limestone, the pH rises and bicarbonate alkalinity is added to the water. This promotes metals precipitation in subsequent ponds or wetlands. Anoxic conditions within the limestone prevent iron oxidation and limestone armoring. However, the use of ALDs is not suitable under certain water chemistry conditions. Ferric iron and aluminum both precipitate within an ALD, decreasing performance by armoring limestone and plugging flow paths. It is also possible that a properly designed and constructed ALD will not generate sufficient alkalinity to completely neutralize acidic water due to limited limestone solubility. Water chemistry that appears similar based on evaluation of standard Acid Mine Drainage analytes may generate dissimilar alkalinity concentrations (Hedin, 1994)

Diversion Wells: A typical diversion well consists of a cylinder or vertical tank of metal or concrete filled with sand-sized limestone. This well may be erected in or beside a stream or may be sunk into the ground by a stream. A large pipe enters vertically down the center of the well and ends shortly above the bottom. Water is fed to the pipe from an upstream dam or deep mine portal. The water flows down the pipe, exits the pipe near the bottom of the well, then flows up through the limestone in the well, thereby fluidizing the bed of limestone in the well. The acid water dissolves the limestone for alkalinity generation, and metal flocs produced by hydrolysis and neutralization reactions are flushed through the system by water flow out the top of the well. The churning action of the fluidized limestone also aids in limestone dissolution and helps remove iron oxide coatings so that fresh limestone surfaces are always exposed. Metal flocs suspended in the water are precipitated in a downstream pond (Hedin, 1994).

Limestone Sand Treatment: Sand-sized limestone may also be directly dumped into AMD streams at various locations in watersheds. The sand is picked up by the stream flow and redistributed downstream, furnishing neutralization of acid as the stream moves the limestone through the streambed. The limestone in the streambed reacts with acid in the stream, causing neutralization. Coating of limestone particles with iron oxides can occur, but the agitation and scouring of limestone in the streambed keep fresh surfaces available for reaction (Robb, 1994).

Limestone Ponds: Limestone ponds are a new passive treatment idea in which a pond is constructed on the upwelling of an AMD seep or underground water discharge point. Limestone is placed in the bottom of the pond, and the water flows upward through the limestone. The pond is sized and designed to retain water for one or two days for limestone dissolution, and to keep the seep and limestone under water (Robb, 1994).

Open Limestone Channels: Open Limestone Channels (OLCs) introduce alkalinity to acid water by the use of open channels or ditches lined with limestone. AMD is introduced to the channel and is treated by limestone dissolution. OLCs neutralize acidity in AMD as long as open channels are constructed of sufficient length to maintain contact time between the limestone and acid water. Open Limestone Channels show promise for neutralizing AMD in watershed restoration projects and abandoned mine land reclamation projects where one-time installation costs are incurred, little or no maintenance is required, and systems do not have to meet specific water quality standards (Ziemkiewicz, 1994).

Successive Alkalinity Producing Systems: (SAPS) Successive Alkalinity Producing Systems combine the use of an Anoxic Limestone Drain and an organic substrate into one system. Oxygen concentrations in AMD are often a design limitation for ALDs. In situations where the dissolved oxygen concentrations are above 1 or 2 mg/L, the water can be introduced into a pond with the following design. Acid water is ponded over organic compost, which is underlain by limestone. Below the limestone is a series of drainage pipes that convey the water into an aerobic pond where metals are precipitated. The hydraulic head drives ponded water through the anaerobic organic compost, where oxygen stripping as well as iron and sulfate reduction can occur prior to water entry into the limestone. Water with high metal loads can be successively cycled through additional SAPS. Iron and aluminum clogging of limestone and pipes can be removed by flushing the system (Robb, 1994).

Bioremediation: Bioremediation of soil and water involves the use of microorganisms to convert contaminants to less harmful species in order to remediate contaminated sites. Microorganisms can aid or accelerate metal oxidation reactions and cause metal hydroxide precipitation. Other organisms can promote metal reduction and aid in the formation and precipitation of metal sulfides. Reduction processes can raise pH, generate alkalinity and remove metals from AMD solutions. In most cases, bioremediation of AMD has occurred in designed systems like anaerobic wetlands where oxidation and reduction reactions are augmented by special organic substrates and limestone (Robb, 1994).

Remining Remining is the process of returning to abandoned surface or underground mines for further coal removal. Where AMD occurs, remining reduces acid loads by decreasing infiltration rates, covering acid-producing materials and removing the remaining coal, which is the source of most pyrite. In 1992 the Surface Mine Conservation and Reclamation Act (SMCRA) was amended to provide incentives for the active coal industry to remine abandoned mine lands.

Actively remining previously abandoned surface or deep mines is the most efficient way to reclaim abandoned mine lands at no cost to taxpayers (Report 5000-BK-DEP2274, 1998). Mine operators who mine abandoned areas must then restore the land to current reclamation standards. The Department of Environmental Protection offers many incentives to mine operators who engage in remining.

Reclamation Abandoned mine reclamation refers to the process of cleaning up environmental pollutants and safety hazards associated with a site and returning the land to a productive condition.

In 1977 Congress introduced the federal Surface Mining Control and Reclamation Act (SMCRA). As a result, coal-producing states were required to update their mining regulations if they wished to retain primary responsibility (primacy) for regulating their sur-

face mining industry. SMCRA mandated that all active coal operators must return the lands they mine back to their original contour and post bonds to guarantee the work will be done within a specific amount of time after active mining ceases. Should an operator fail to undertake reclamation, the state would then use the financial guarantee to pay a contractor to do it. In addition, the act established the Abandoned Mine Reclamation Fund by imposing a fee on active mine operators based on the tonnage of coal removed. The trust fund, administered by the Office of Surface Mining and Enforcement (OSM), is used to reclaim mine lands abandoned prior to 1977. An amendment to SMCRA also allows states to put aside grant money specifically for treating mine drainage.

Since the early 1980s, under the Reclamation-In-Lieu of Civil Penalties Program, DEP has routinely allowed operators to perform reclamation instead of paying civil penalties assessed for active permit violations. The reclamation performed is always more valuable than the actual assessed civil penalty and the activity cannot address the operation's legal responsibility (Report 5000-BK-DEP2274, 1998). DEP's District Mining offices have used this program to facilitate many types of abandoned mine reclamation, including abandoned surface mine reclamation, deep mine sealing and reclamation, mine drainage remediation projects and control of surface subsidence due to abandoned deep mine operations.

Bond Forfeiture Bond forfeiture is the final enforcement action against an operator who is unwilling or unable to complete the reclamation of a site. When a forfeiture occurs, the government assumes the responsibility of reclaiming the abandoned mine. Additionally, operators who fail to reclaim their mines can never receive another mining permit -- not only in Pennsylvania, but also in the United States.

Water Management Diverting surface water from the spoil above the site to decrease the amount of water entering the mined area is highly recommended in acid-producing areas (Skousen, 1992). Channeling surface waters or mine waters to control volume, direction and contact time can be used to minimize the effects of acid mine drainage on receiving streams. The diversion of water from mining areas and from acid-producing materials is an abatement technique used in both surface and underground mines. Surface diversion of runoff involves the construction of drainage ditches to move surface water quickly off the site before infiltration or to limit its movement into disturbed areas. The diversion is accomplished either by ditching on the uphill side of the surface mines or by providing new channels or impervious channels for existing surface streams to convey water across the disturbed area (Skousen, 1992). Because the discharge of the Jeddo Tunnel is so large (40,000 gpm), surface water diversion methods are highly recommended and are essentially the only viable AMD abatement techniques for the watershed.

2. MANAGING AGRICULTURAL NON-POINT SOURCE POLLUTION

Agricultural activities that cause NPS pollution include confined animal facilities, grazing, plowing, pesticide spraying, irrigation, fertilizing, planting and harvesting. The major agricultural NPS pollutants that result from these activities are sediment, nutrients, pathogens, pesticides and salts. Agricultural activities also can damage habitat and stream channels. Agricultural impacts on surface water and groundwater can be minimized by properly managing activities that can cause NPS pollution.

particles from an area, such as a farm field or construction sites, and transports them to a water body, such as a stream or lake. Excessive sedimentation clouds the water, which reduces the amount of sunlight reaching aquatic plants; covers fish spawning areas and food supplies; and clogs the gills of fish. In addition, other pollutants like phosphorus, pathogens and heavy metals are often attached to the soil particles and wind up in water bodies with the sediment. Farmers and ranchers can reduce erosion and sedimentation by applying management measures to control the volume and flow rate of runoff water, keep the soil in place and reduce soil transport.

Managing Nutrients Nutrients such as phosphorus, nitrogen and potassium in the form of fertilizers, manure, sludge, irrigation water, legumes and crop residues are applied to enhance production. When they are applied in excess of plant needs, nutrients can wash into aquatic ecosystems where they can cause excessive plant growth, which creates a foul smell and taste in drinking water and kills fish. Farmers can implement nutrient management plans that help maintain high yields and save money on the use of fertilizers while reducing NPS pollution.

Managing Confined Animal Facilities By confining animals to areas or lots, farmers can efficiently feed and maintain livestock. However, these confined areas become major sources of animal waste. Runoff from poorly managed facilities can carry pathogens (bacteria and viruses), nutrients and oxygen-demanding substances that cause major water quality problems. Ground water can also be contaminated by seepage. Discharges can be limited by storing and managing facility wastewater runoff with an appropriate waste management system.

Managing Irrigation Irrigation water is applied to supplement natural precipitation or to protect crops against freezing or wilting. Inefficient irrigation can cause water quality problems. Excessive irrigation can concentrate pesticides, nutrients, disease-carrying microorganisms and salts—all of which impact water quality—in the top layer of soil. Farmers can reduce NPS pollution from irrigation by improving water use efficiency. Actual crop needs can be measured with a variety of equipment.

Managing Pesticides Pesticides, herbicides and fungicides are used to kill pests and control the growth of weeds and fungus. These chemicals can enter and contaminate water through direct application, runoff, wind transport and atmospheric deposition. They can kill fish and wildlife, poison food sources and destroy the habitat that animals use for protective cover. To reduce NPS contamination from pesticides, people can apply Integrated Pest Management (IPM) techniques based on the specific soils, climate, pest history and crop for a particular field. IPM helps limit pesticide use and manages necessary applications to minimize pesticide movement from the field.

Managing Livestock Grazing Overgrazing exposes soils, increases erosion, encourages invasion by undesirable plants, destroys fish habitat, and reduces the infiltration of sediment necessary for building streambanks, wet meadows and floodplains. To reduce the impacts of grazing on water quality, farmers can adjust grazing intensity, keep livestock out of sensitive areas, provide alternative sources of water and shade, and re-vegetate rangeland and pastureland.

3. AGRICULTURAL BEST MANAGEMENT PRACTICES

Methods of cleaning up land runoff fall into two categories: keeping nutrients from entering the water or putting fewer nutrients on the land initially. Known as best management practices (BMPs), the techniques range from farming with less fertilizer to planting seed directly

into existing vegetation, a practice that avoids plowing and disrupting the soil and also reduces runoff. Other BMPs involve storing manure in concrete or steel pits, altering farm slopes to retard runoff, fencing cattle from streams so they do not pollute the water and cause streambank erosion, and planting winter cover crops to take up excess fertilizer left in the soil after the main harvest.

Some BMPs show great promise for controlling nutrients and sediment contributed by agriculture. Research and field tests at the University of Maryland's Wye Experiment Station, for example, show potential for controlling nitrogen by sowing fields in winter cover crops like rye and wheat. On many soils, the largest pulses of nitrogen leaving fields are not in the spring when fertilizer is applied, but in winter, as the leftover residues of crops decay or manure is spread when no plants are growing to take it up. Cover crops can absorb the bulk of this runoff. Plowed back into the spring, they can substitute for part of a farmer's purchase of commercial fertilizer (Horton, 1991).

There are a large number of best management practices that can be used by farmers to mitigate the effects of non-point source pollution in the Jordan Creek watershed.

Agri-chemical Handling Facility (AHF) The AHF is a permanent structure with an impervious surface to provide an environmentally safe area for handling of on-farm agri-chemicals, such as pesticides and fertilizers that are used in spraying operations of cropland. This practice provides for the containment and isolation of spillage from on-farm agri-chemical mixing, loading, unloading and rinsing operations in order to minimize pollution of the soil, water, air plant or plant or animal resources.

Barnyard Runoff Control The collection and reduction of runoff water and agricultural wastes from barnyards, feedlots and other outdoor livestock concentration areas for storage or treatment to improve water quality.

Contour Buffer Strips Contour buffer strips are strips of perennial vegetation alternated with wider cultivated strips, farmed on the contour. These strips of permanent vegetation slow runoff and trap sediment. This practice is most effective when used with other conservation practices such as conservation tillage and crop rotation.

Contour Farming Contour farming is preparing the soil, planting, cultivating and harvesting crops around a hill nearly on the level, rather than up and down the hill. Crop rows on the contour form hundreds of small dams to slow runoff.

Contour Stripcropping Contour stripcropping is a system of growing crops in approximately even width strips or bands on the contour to reduce soil erosion. The crops are arranged so that a strip of meadow or close growing crop is alternated with a strip of rowcrop, or alternating strips of high and low residue-producing crops.

Cover Crops A cover crop is a crop of close-growing grasses, legumes or small grains grown to control soil erosion during periods when the major crops do not furnish enough cover. Cover crops are often seeded in the fall to protect the soil until the next spring's planting of major crops, and may add organic matter to the soil and trap excess plant nutrients.

Crop Rotation Crop rotation is growing various crops on the same piece of land—often changing the crops year by year. This practice may include alternating row crop production from a high residue-producing crop such as corn to a low residue-producing crop like soybeans. Crop rotations work best with other conservation practices such as conservation tillage, strip cropping, contouring and grassed waterways.

Critical Area Planting Planting vegetation on highly erodible or critically eroding areas in order to stabilize the soil, reduce damage from sediment and runoff to downstream areas and improve wildlife habitat and visual resources.

Diversion A diversion channel is a channel and ridge similar to a terrace that diverts excess runoff from an area for use or safe disposal in another area. A diversion might be used to divert water from a feedlot, cropland, an active gully or farm buildings.

Field Borders A field border is a band or strip of perennial vegetation, usually grass or legumes, next to cropland on the outside of a field. Field borders reduce erosion on end rows and also function as turn areas for farm machinery.

Filter Strips Filter strips are strips of vegetation a minimum of 15 to 25 feet wide that remove sediment, organic matter and other pollutants from runoff. They can be used on cropland next to streams, ponds and lakes or other areas to reduce sediment loads that could reach waterways.

Forest Stand Improvement Apply to stands of forest trees where quality can be improved through thinning, pruning, and releasing describable seedlings and young trees.

Grassed Waterways Grassed waterways are areas planted with grass where water usually concentrates as it runs off a field. Grass in the waterway slows the water and guides it off the field, significantly reducing gully erosion.

Heavy Use Protection Protecting heavily used areas by establishing vegetative cover, by surfacing with suitable materials, or by installing needed structures. The purpose of this practice is to stabilize urban, recreation or agricultural facility areas frequently and intensely used by people, animals or vehicles.

Mortality Composting Facility A facility for the composting of the normal daily mortalities from a poultry or livestock operation. This facility is designed to biologically treat animal carcasses by composting and to protect the environment by stabilizing nutrients, destroying pathogens and producing low odor, humus-like material that is useful as a fertilizer substitute and soil amendment.

Nutrient Management Nutrient management involves applying the correct amount and form of plant nutrients for optimum yield and minimum impact on water quality. Practicing strong nutrient management reduces input costs and protects water quality by preventing over-application of commercial fertilizers and/or animal manure.

Pesticide Management Pest management involves having an expert "scout" crops and recommending that farmers apply pesticides only when concentrations surpass a certain threshold. While sometimes this means spraying more than usual, it often saves considerably on pesticide application.

Pasture/Grazing Management A planned grazing system is two or more grazing units rotated, or alternately rested, and grazed in a planned sequence. This practice improves grazing efficiency. Rotational grazing systems conserve water resources, enhance wildlife habitat and reduce soil erosion while improving water quality.

Roof Runoff Management A facility for collecting, controlling and disposing of runoff water from roofs. This practice prevents roof runoff water from flowing across animal concentration waste areas, roads and alleys and to reduce pollution and erosion, improve water quality, prevent flooding, improve drainage and protect the environment.

Residue Management Residue farming leaves a planned level of the past year's crop residue on the soil surface after planting. Often referred to as conservation tillage, this cropping system leaves at least 30% groundcover after planting. Methods of leaving more residue include using high residue-producing crops, waiting until spring for tillage operations, reducing the number of tillage passes, planting cover crops, driving more slowly on tillage operations and applying no-till techniques.

Spring Development Improving springs and seeps by excavating, cleaning, capping or providing collection and storage facilities. The purpose of this practice is mainly to improve the distribution and/or quality of water, or to increase the quantity of water for livestock or wildlife and also to obtain water for irrigation if water is available in a suitable quantity and quality.

Streambank Fencing/Protection Stream protection involves protecting a stream by excluding livestock and establishing buffer zones or vegetation to filter runoff. Fencing prevents cattle from trampling banks, destroying vegetation and stirring up sediment in the streambed. A buffer zone of vegetation along the streambank filters runoff and may also absorb excess nutrients and chemicals.

Stripcropping Growing crops in approximately even width strips or bands. The crops are arranged so that a strip of meadow or close growing crop is alternated with a strip of row crop, or alternating strips of higher and low. Apply to cropland subject to erosion or soil movement that constitutes a pollution hazard.

Structure for Water Control A structure in an irrigation, drainage or other water management system that conveys water, controls the direction or rate of flow or maintains a desired water surface elevation. The purpose of this structure is to control the stage, discharge, distribution, delivery or direction of the flow of water in open channels or water use areas. Also used for water quality control and to protect fish and wildlife and other natural resources.

Subsurface Drainage A conduit such as a tile, pipe, or tubing installed beneath the ground surface to collect and/or convey drainage water. This practice improves the soil environment for vegetative growth by regulating the water table and groundwater flow.

Terraces Terraces reduce the rate of runoff and allow soil particles to settle out. The resulting cleaner water is then carried off the field in a non-erosive manner. Terraces are most effective when used in combination with other practices such as crop residue management, contour farming, crop rotations and field borders. Terracing reduces sediment pollution of lakes and streams.

Tree Plantings Planting trees to establish a stand of trees can be an effective conservation measure in open areas or sparse woodlands where soils are adapted to hardwood forests. Establishing forests—or retaining them where they exist between farms and waterways—appears to do a remarkable job of improving polluted runoff, including the elusive subsurface flows of nitrogen in groundwater (www.epa.gov).

Trough A trough or tank, with needed devices for water control and wastewater disposal, installed to provide drinking water for livestock. This practice allows for the desired protection of vegetative cover through proper distribution of grazing or through better grassland management.

Underground Outlet A conduit is installed beneath the surface of the ground to collect surface water and convey it to a suitable outlet. This practice disposes of excess water

from terraces, diversions, subsurface drains, surface drains, spillways from dams or roof downspouts without causing damage by erosion or flooding.

Waste Stacking Pad A stabilized area for the temporary storage and handling of solid manure or other stackable agricultural wastes.

Water and Sediment Control Basins Water and sediment control basins are short earthen dams built across the slope and minor drainage ways. Basins trap sediment, reduce gully erosion, and reform the land surface.

4. ELEMENTS OF A SUCCESSFUL AGRICULTURAL NPS POLLUTION CONTROL PROGRAM

The Rural Clean Water Program (RCWP) is a major source of practical information on how to conduct a successful NPS control project. An RCWP evaluation, conducted during 1991 and 1992 by the National Water Quality Evaluation Project (NWQEP) at North Carolina State University, compiled elements that are considered to be essential to the success of an agricultural NPS pollution control program (Coffey, 1992). The participation of landowners, the accurate definition of the most critical areas and the implementation of nutrient management techniques are the three elements of a model project identified in the study.

Landowner Participation: It has been demonstrated that the better landowners understood the project purposes, the more willing they were to participate. One recurring theme was that repeated landowner contact was necessary to obtain high rates of participation. Information/education programs that involved the larger rural community as well as the actual users of the water resources tended to be more successful. The project that obtained the highest level (essentially 100%) of landowner participation did so by getting the local dairy cooperative to levy a penalty on the price paid for milk to dairy farmers who scored below a given level on a conservation/management rating scale.

Defining Critical Areas: Treating critical areas is the best NPS control strategy at the watershed level. Criteria used to identify the critical areas contributing most to water resource impairments generally include erosion rate, proximity to watercourses and animal unit concentration. Several project experiences suggest that particular attention must be given to certain management practices, including tillage operations and nutrient and pesticide management. The ability to identify critical areas and management practices successfully also increases the cost effectiveness of the entire project and the overall success in improving water quality in the impaired resource (Coffey, 1992).

The critical area approach is important for two reasons. First, for budgeting purposes, it is far more cost effective to focus treatment on the most intense sources. Second, ranking areas for treatment should allow the opportunity to produce the greatest water quality changes in the shortest possible timeframe. Experiences from the RCWP support these general conclusions, reaffirming the belief that targeting is the key to NPS control (Coffey, 1992).

Nutrient Management: In projects where animal unit densities are high relative to crop nutrient needs, and/or where soil and topographic characteristics are conducive to rapid nutrient flushing, an efficient nutrient management program appears to be a prerequisite to improved water quality (Coffey, 1992).

Changes in nutrient management directed at improving water quality often involve recommendations that differ from traditional farming practices. Traditionally, the use of commercial fertilizers in conjunction with animal wastes is often viewed as insurance.

The experience of the RCWP, however, shows that educating producers while providing soil and manure testing services, assessments of crop nutrient needs, specific recommendations for application rates and guidance on optimal timing, can significantly reduce excess nutrient applications. A mass balance approach to agricultural nutrient management is very important when the objective is water quality (Coffey, 1992). This includes calculating farm-level nutrient budgets in terms of waste, legume fixation, nutrient cycling within the production system and nutrient outputs.

5. WELLHEAD PROTECTION

Wellhead protection involves the reduction of threats to the quality of groundwater used for drinking water. Boundaries known as wellhead protection zones are areas of open, unthreatened land that help to maintain good quality groundwater supplies. The zones can be separated into three different areas. A radius of no greater than 400 feet and no less than 100 feet defines the Wellhead Protection Area 1, Wellhead Zone (WHZ). The area considered in this zone for each wellhead is determined using a volumetric flow equation. The second Wellhead Protection Area is defined as the Zone of Diversion (ZOD). The area is defined as the area from which the design-pumping rate for the well draws water. The Zone of Contribution (ZOC) is the third Wellhead Protection Area and is defined as the area that provides water to sustain the supply of the protected well. The definitions of each zone may vary slightly between municipalities.

Upper Mount Bethel Township in Northampton County implemented an ordinance on the issue of wellhead protection. Some of the restrictions include prohibiting stormwater retention basins in the area, mapping of the zones, and an extensive list of restricted conditions for various land-use activities and facilities. Other municipalities have installed monitoring wells in order to provide an early warning signal for pollutants in the drinking water supply.

6. SOURCE WATER ASSESSMENT AND PROTECTION PROGRAM

The 1996 Safe Drinking Water Act reauthorization requires states to develop a Source Water Assessment and Protection (SWAP) Program. The SWAP program assesses the drinking water sources serving public water systems for their susceptibility to pollution. This information will be used as a basis for building voluntary, community-based barriers to drinking water contamination. The states are required to assess all sources (including ground and surface water sources) serving public water systems within two years of program approval, with the possibility of an 18 month extension. In Pennsylvania, this represents about 14,000 permanent drinking water sources that will need to be assessed by June 2003.

As part of the assessment program, Pennsylvania is required to:

1. Delineate the boundaries of the areas providing source waters for all public water systems; and
2. Identify (to the extent practicable) the origins of regulated and certain unregulated contaminants in the delineated area to determine the susceptibility of public water systems to such contaminants.

These assessments are of the raw water quality, not the finished water compliance. Pennsylvania must use all reasonably available hydrogeologic information, water flow, recharge, and discharge, and any other information deemed necessary to accurately delineate the source water assessment areas.

Source water assessments will provide communities and water suppliers with information that they will need to make informed decisions on how to best protect their drinking water supplies. Source water protection grants are available from DEP for municipalities and water suppliers to develop local source water protection programs. DEP provides technical support and loans to communities to assist them in developing protection plans. The League of Women Voters, through the Water Resource Education Network, provides training and mini-grants for local coalition building to promote local education and dialogue on the issues of source water protection.

b. Land

CONSERVATION EASEMENTS

A conservation easement is a legal agreement between a landowner and a conservation organization or government entity that restricts the uses that can occur on the land, and thus permanently protects the property. In the past, conservation organizations have been the principal conservation easement service providers. More recently, local municipalities have initiated their own conservation easement programs.

In either case, there are certain steps to be carried out when a conservation easement is used to protect property. Usually the land is surveyed to identify the boundaries and acreage. An appraisal is completed, and the value of the development rights or what the landowner is “giving up” is determined. In some cases, the landowner is paid for allowing the restrictions to be put on the land. Even if the development rights are purchased, conservation easements are still a less expensive method to use to protect land than buying the property outright. The value of the development rights can be more than 50% of the total fair market value. More commonly, the landowner donates the value of the development rights to either the conservation organization or government entity. The landowner can realize some tax benefits with this donation.

Most conservation easements prohibit residential or commercial development, and are designed to protect the conservation values of the property. In some cases, the conservation easement does permit some future development, with limitations. Conservation easements are useful tools for preservation, since the landowner retains ownership, maintains the property, and pays the property taxes, but the land is protected.

TRANSFER OF DEVELOPMENT RIGHTS

Transfer of Development Rights (TDRs) is a zoning tool that allows conservation and development to occur simultaneously in a municipality. This is a voluntary process. With a TDR program, development is directed into a certain area (receiving area) and other areas are reserved for open space or agriculture (sending area). The development rights from properties in the sending area are sold or transferred to lands in the receiving area, where services exist and development is preferred. To date, TDRs have been a very effective land protection tool in Maryland but used in only a few municipalities in Pennsylvania.

AGRICULTURAL AND FORESTLAND TAX INCENTIVES

This program was enabled by state legislation Act 319, commonly called “Clean and Green.” Under this program, local assessment offices are directed to assess farmland and forestlands at their agricultural or forest value instead of fair market or development value. This is a voluntary program, in which landowners must apply to enroll at the county assessment office. When enrolled, property owners agree to keep the land in agriculture or forest and are penalized

financially if they break this agreement. Although it is not permanent protection, Clean and Green has been very effective in protecting land, with over five million acres enrolled in 48 counties statewide.

IMPACT FEES

Municipalities can assess developers for portions of the transportation capital improvement costs related to their developments by passing ordinances requiring that impact fees be paid by the developer to the municipality. These fees generate revenue for funding the costs of transportation capital improvements necessitated by and attributed to the new development. Pennsylvania's Traffic Impact Fee Law, more commonly known as Act 209, or Article V-A of the Municipalities Planning Code (MPC) governs the use of such fees. Act 209 contains detailed provisions that a municipality must follow when establishing impact fees. Impact fees lower a municipality's infrastructure installation costs. These fees ensure that the cost for needed capital improvements associated with roadway improvements is applied to new development in a manner that allocates the cost for improvements proportionally among new property owners.

To assess impact fees on new development, the Act requires municipalities to fairly apportion the costs of infrastructure in formulating a program. The municipality's costs of infrastructure planning studies may also be included as part of the impact fees. Impact fees are limited to 50 percent of the cost of improvements on state roads. The impact fees are refunded if construction of the improvement does not begin within the prescribed time, and improvements are limited to a service area of seven square miles. Adjacent municipalities may cooperate to develop coordinated impact fee programs and Transportation Capital Improvements Programs (TCIPs).

RECREATION AND OPEN SPACE FEES

A Municipality can also require developers to pay a fee when plans for a new residential or commercial development are submitted for approval. These monies are reserved in an open space/recreation fund for the community to use to improve park facilities or acquire park or open space lands. The municipality must have an official open space/recreation plan in order to require such fees.

ZONING OVERLAYS

The overlay district concept implies that more than one zoning district regulates development for a specific area within a municipality, because of some unique characteristic of that area. Often used as a layer over more than one zoning district, a zoning overlay can also cross municipal boundaries if applied at a multi-municipal or county level by the participating municipalities. While the underlying zoning district(s) designates basic zoning regulations, such as permitted uses and conditional uses, the overlay district may establish more restrictive development regulations, such as setbacks, design guidelines, signage, buffers, environmentally sensitive requirements, etc. The overlay district regulations will generally prevail over those of the underlying zoning district(s). Integral to land use planning, overlay districts manage concerns related to such issues as open space protection, recreation development, environment resource protection, historic and cultural preservation, wellhead protection, view shed protection, aesthetics and infrastructure planning in the area. In the context of infrastructure planning, overlay districts provide buffers for adjacent land uses while allowing continued traffic movement around the overlay district. They provide sufficient setbacks to facilitate potential widening of right-of-way and/or access ramps, without disrupting surrounding uses, and they maintain circulation movement through the overlay district while accommodating additional development.

DEVELOPMENT DISTRICTS

Municipalities can plan future land use for their community by designating development districts. A development district has two intended purposes: first is to encourage compact development, which permits efficient, cost-effective provision of infrastructure and public services. Second, by directing growth away from agricultural lands and natural resource areas these areas are protected. Use of this tool should be part of, or based on, a comprehensive plan. By designating development districts municipalities can plan for growth in areas that have public services and direct growth away from natural resource areas that are not appropriate for development.

GROWTH AREAS

A growth area is a geographic delineation, or boundary line, within which a municipality plans for higher density development is encouraged and the needed infrastructure (roads, water, sewer, schools and parks) exists or is planned. Outside of this area, land is planned to remain in predominantly rural (rural and agricultural and natural features areas) uses. Growth areas are not a tool to stop development; rather, they are used to geographically indicate where more development is appropriate and public investment in development is most appropriate.

Growth areas attempt to focus municipal resources to ensure that as the market creates the demand for development, the infrastructure will be available. It encourages growth in areas where it is appropriate and discourages development where it is not wanted. It encourages revitalization and reinvestment in growth areas.

The urban growth area should be drawn to include enough land for the development needs of the next 20 years. This includes needed land for residential, institutional, commercial and industrial development, and for public open space and recreational facilities, and sufficient additional land to provide for flexibility in the real estate market. The growth area should be indicated on the Official Map of the municipality and /or participating municipalities. The use of growth areas as a planning tool is relatively new to Pennsylvania, and there is no specific authorization for the use of growth areas in Pennsylvania law. The growth areas approach can be most effective if used as part of a regional planning process.

OFFICIAL MAP

An official map is both a map and a land-use ordinance. It identifies public lands and allows a municipality to identify and reserve private land for future public use. It legally establishes the location of existing and proposed streets, waterways, parks and other facilities within a municipality.

Under the MPC, an official map is a land-use ordinance and is adopted like any other land-use ordinance. An official map may focus on streets or parkland, but usually also includes a variety of public facilities or lands. The official map can cover an entire municipality or can focus on growth areas.

The official map illustrates the location of private lands that a municipality plans for public uses and describes a fixed time that land is to be reserved. If the owner of the land files written notice of an intention to develop, the reservation of private property identified on the map for future public uses lapses one year. If the municipality still wants to see the land be converted to public use, the municipality must acquire the land to preclude its development.

The official map illustrates a community's long-range goals for roads, public facilities and open space. Zoning, subdivision and land-use ordinances should incorporate references to the official map to ensure that the official map will be taken into consideration by developers. The offi-

cial map reserves important lands without immediate purchase, and can be amended as needed. Improvements identified on the map also provide positive support for grant applications by illustrating a historical commitment to specific projects. The governing body must adopt the official map by municipal ordinance, following public notice and a public hearing, and see that once adopted, the document is recorded at the County Recorder of Deeds.

ENVIRONMENTAL RESOURCE INVENTORY

An Environmental Resource Inventory (ERI) is a report that documents the existing natural, cultural, historical and other features in a municipality. Typically, the Inventory contains descriptions of these features and maps showing the locations. It can be used to identify the community's special resources by mapping their exact locations, and also suggest areas that should be protected from development. The Inventory can be useful in many aspects of community planning and development plan review, in addition to the designing of trails and greenways, and open space areas in a community.

MAP OF POTENTIAL CONSERVATION LANDS

A Map of Potential Conservation Lands is the foundation for conservation area preservation. The map identifies a network of open space and greenways throughout a municipality for conservation. It does not delineate parcels for land acquisition but rather makes a municipality and landowners aware of natural systems in a particular site and its connection to a larger green network. Parcel boundaries do not confine natural systems, so this map outlines and connects these systems based on their natural boundaries. The Potential Conservation Lands Map should coincide with the municipality's official map and show the pattern of resources relative to undeveloped land. Designated areas may be already developed or contain physical improvements, such as homes, buildings, pavement, etc. The plan does not suggest nor imply that these improvements be removed but rather to advise future development. A few connecting parcels, not identified under a particular natural feature, may be noted as providing critical linkages and illustrate lands most vulnerable to development.

The base map locates woodlands, open fields, moderate slopes and historic/cultural features, tax parcel boundaries, roads, streams, and watershed boundaries. Three layers overlay this base. The first layer identifies lands protected and lands for potential acquisition. The second layer two shows unbuildable lands limited by natural features such as steep slopes, wetlands, floodplains, and hydric soils. Finally, the third layer identifies lands, either wooded or of prime agricultural soils, and cultural and historic features worthy of conservation or preservation.

The initial step in preparing a map of conservation lands requires identification of existing protected lands in a municipality. Municipality, county, and privately owned lands which are secured open space should be identified. These lands include municipality parks and open space, county owned lands, and private lands with conservation. The primary conservation lands map locates natural systems, which currently restrict development. These areas include steep slopes, wetlands, floodplains, and flood prone soils. The Secondary Conservation Lands Plan identifies natural systems and future possible lands for open space preservation. These lands are identified according to soils, flood prone areas (undevelopable land), riparian buffers, view sheds, and future municipality park and recreation acquisition. In addition, lands currently enrolled in the Agricultural Securities Act, as well as privately owned park and recreation areas, are included on the plan. These agricultural lands currently provide open space, and potentially could be secured through future easement agreements. Other resources identified include

buildable woodlands, significant farmland, cultural landscapes, scenic view sheds, and other features based on soils, woodland cover, topography, floodplain, wetlands, and watersheds.

BUSINESS IMPROVEMENT DISTRICTS AND BUSINESS DISTRICT AUTHORITIES

As development continues to move outside of the urban core, formerly strong urban centers often see significant deterioration. Despite the effects of this growth, downtowns remain cultural, historical, educational, architectural and entertainment centers. Facilities related to these uses are among the few unique assets and competitive advantages of cities. In recent years, a number of land use implemented practices are revitalizing our communities. These practices cover a wide range of topics, from historic preservation to development partnerships, and from grant and loan programs to place-based community and economic development initiatives. The practices involve federal, state, county and local agencies and resources, plus the involvement of the public. Making our communities safe from crime, improving the quality of schools and creating employment opportunities are the prerequisites for rebuilding downtowns. Pennsylvania's communities are the foundation of our Commonwealth and their social and economic viability is critical to the overall health of Pennsylvania.

Business Improvement Districts (BIDs), also known as Business District Authorities (BDAs) in Pennsylvania, are legal entities created for the implementation of business improvement activities in defined business districts. This practice is authorized under the Municipality Authority Act of 1945, the Business District Authority Act (Act 41) of 1980, and Pennsylvania Statute Title 53 (Municipalities Generally), Part V (Public Improvements, Utilities and Services), Chapter 54 (Business Improvement Districts). District property owners usually organize BIDs or BDAs. Based on the ability to levy assessments on property within the district, they typically consist of commercial uses. Common initial activities of BIDs usually cover "clean and safe," meaning the focus is on cleaning up the district and improving safety. Other typical activities of a BID include: strategic planning, maintenance, security, consumer marketing, business recruitment and retention, parking and transportation management, facade programs, social services and capital improvements.

ENVIRONMENTAL ADVISORY COUNCILS

Environmental Advisory Councils (EAC) are voluntary citizen advisory committees, which serve as additional, useful, planning resources for local governments regarding land-use issues. Appointed by the governing body of each municipality, EAC consists of three to seven members. EACs typically focus on environmental issues such as clean air, clean water, etc. but have also acted as a review board for development plans and have addressed such things as the location, design, and construction of trails, access points to streams and rivers, and suggestions for the location or relocation of heavy industry. EACs frequently publish informational newsletters for the residents in their municipality, and complete Environmental Resource Inventories (ERI) for the municipality to serve as a tool for planning development and protecting natural and historical resources.

