# History
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# Lititz Run Watershed Alliance

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| **1992** | Restoration-Ed Hess Farm | Installed 100 feet of streambank fencing, bank stabilization, Regrading and re-seeding |
| **1993** | Restoration-Ed Hess Farm | Additional bank Stabilization with rock regrading. Instream habitat devices-Christmas tree deflectors, jack dams |
| | Restoration-Banta Wetland Farm | Shrub and tree plantings |
| **1994** | Grant-National Trout Unlimited | Embrace a Stream Program - Amount - $5,000.00 |
| | Award - PA Trout | The Pennsylvania Trout Best Project Award |
| | Restoration-Art Hess Farm | Initiate work, 1000 linear feet of streambank stabilization with rock, fish cover structures, regrading and reseeding. Stone walls built around a spring and rechanneled water discharge away from manure storage area |
| | Donation-Beiler Excavating | 300 dump truck loads of rock stockpiled along the stream for future use |
| | Restoration-Ed Hess Farm | 2800 linear feet of streambank improvements-stabilizing with rock, mud sills, deflectors, tree plantings, regrading, reseeding and tree and shrub plantings |
| | Public Relations-Call of the Outdoors | Local television program feature |
| | Community-LMHS Volunteers | Ten students from LMHS volunteered for two stream improvement work days |
| | Proposal Submitted/Bioengineering | Landstudies, Inc. submitted a proposal for a 350 foot bioengineering project in Lititz Borough |
| | Township Coordination | Watershed Planning discussions initiated with Borough/Twp. |
| | Public Relations | Feature article National Trout Unlimited magazine |
| | Grant-Embrace a Stream Award<br>-Diamond Spring Restoration<br>Wenrich Farm | $5,000-Embrace a Stream Award - Trout Unlimited<br>$500-Diamond Spring Water Quality Award<br>500 linear feet of stream improvements, bank stabilization, mud sills, cattle crossings tree plantings,retention basin/reseed |

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| | Restoration-Millport Conservancy | 800 linear feet of stream improvements-rock and deflector installation, riparian buffer planting/reseeding. Mill Pond problem solving, coordination with PA DEP, Maintenance, selective mowing and trimming performed around riparian buf. |
| | Restoration-John King Farm | 100 Linear Feet of stream improvements |
| | Restoration-Smucker Farm | 1400 Linear Feet stream improvements, rock & deflector installation, streambank fencing, tree plantings, instream fish structures, cattle water access ramps, regrading |
| | Restoration-Ed Hess Farm | Stream improvements, instream deflectors/tree plantings |
| | Restoration-Art Hess Farm | Stream improvements, instream deflectors/tree plantings |
| | Public Relations-Cable Network | Feature on Berks County Cable TV |
| | Public Relations | TU National/2nd National Trout Unlimited Feature |
| | Planning-Lititz Riparian Park | Lititz Run Riparian Park concept(Landstudies, Inc.)presented to Warwick Township and Warwick High School |
| | Community-Eagle Scout Project | Scouts install 350 trees in Linear Park. Warwick Twp/CBF |
| | Restoration-Tshudy Property | 300 feet of rock bank stabilization/40 ft. biolog/tree planting |
| | Donation-Greenleaf Nursery | 450 five gallon trees for Riparian Park plantings/Lititz Run |
| **1996** | Grant-Embrace a Stream | $5,000-Embrace a Stream Award-Trout Unlimited |
| | Restoration-Smucker Farm | AG BMP's planting trees, barnyard improvements |
| | Mitigation Credits/Restoration | $5,000 to create .02 acre wetland mitigation/Bog Turtle habitat |
| | Donation-Waterfowl USA | $2,500-Waterfowl USA/Lancaster Chapter-Ag run-off/wetland habitat in riparian area |
| | Restoration-Millport Conservancy | Tree Plantings/bank stabilization on stream. Pheasants Forever planted a 6 acre field adjacent to creek in warm season grasses |
| | Community-Warwick High School | 2000 seedlings planted with student labor. Warwick H.S. coordinates hand-on learning by growing plants from seedlings for replanting the following year on Conservancy property. |
| | Restoration-AG-BMP-Jake King | 800 linear feet of stream improvements/rock stabilization, regrading, reseeding, streambank fencing, cattle crossings, access areas, tree plantings |

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| | Restoration-Banta Wetland Farm | Stream improvements, instream jack dams, stabilization, tree plantings, installation of a 3 acre warm season grass plot |
| | Grant-Warwick Township | $4,200 from Warwick Twp. for Riparian Park |
| | Grant-Pledged | Lititz Sportsmens Assoc.- Riparian Park |
| | Public Outreach | Presentation-Board/Lititz Run Watershed All,/Landstudies |
| | Education - Workshop | Land use planning/Conservation workshop held at Millport Conservancy/organized by Landstudies. 12 local co-sponsors-proceeds to go to watershed planning efforts |
| | Public Outreach-Warwick H.S. | Presentation Board exhibit-Open House/students and parents |
| | Grant confirmed-EPA 319 | EPA 319 Gant administered by PA DCNR in the amount of $243,000 for planning and implementation 1998/1999. In-kind dollars and cash donated by numerous groups/organizations |
| | Government Coordination | Presentation at Chesapeake Bay local Government. Advisory Committee-Harrisburg |
| | Restoration-Lititz Riparian Park | 1/2acre Riparian Park constructed |
| | Mitigation - Bog Turtle Habitat | .02 acre Bog Turtle habitat created-Millport Conservancy |
| | Government Coordination-EPA | County Representative and Landstudies present project EPA Region 3 in Philadelphia |
| | Government Coordination - EPA | Landstudies presents project to EPA watershed planning conference/watershed tour conducted. Community participates in tour |
| **1997** | Restoration-Santo Domingo Park | Planning of Linear Park along Santo Domingo Creek with construction in fall of 1997 |
| | Restoration-Millport Conservancy | Stream improvements ongoing at Millport. Coordinated by Donegal Chapter of Trout Unlimited |
| | Government Coordination | James Seif, Secretary of PA DEP makes announcement of Chesapeake Bay Partner Awards at Lititz Springs Park. Lititz Borough and Warwick Twp. are both award winners |
| | International Education | Japanese delegation tours watershed as part of PA visit coordinated by Brubaker Agronomics |
| | Restoration-Bioengineering Project | Bioengineering project completed in downtown Lititz. Financial sponsors of project-Borough and Farmers First Bank. Design/construction mgmt. by Landstudies |

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| | Award-Chesapeake Bay Partner | Lititz Borough and Warwick Township are recognized by Chesapeake Bay Program as Chesapeake Bay Partner Community |
| | Grant-Rivers Conservation | Rivers Conservation Watershed Planning Grant awarded to Donegal Chapter of Trout Unlimited-$25,000. Management of grant by Landstudies |
| | Lititz Run Watershed Alliance | The Lititz Run Watershed Alliance was founded |
| **1998** | Restoration-Bioengineering project | Bioengineering project that stablilized 300 linear feet of Lititz Run streambank on the McKennon property, Borough of Lititz. Financial sponsor-Lititz Borough. Design and Management-Landstudies |
| | Planning Seminar | An educational seminar was held at the Millport Conservancy, sponsored by Local Govt. Advisory Council. Local planners, engineers, municipal officials took part in the event-met with planning experts from throughout the Chesp. Bay region. Seminar produced recommendations to improve sustainability and livability in the Lititz Run Community |
| | Watershed Tour | PA Recreation and Parks Society (PRPS) attended a watershed tour as part of their annual conference |
| | Volunteer Work/Trout Unlimited | Members of Donegal Chapter of Trout Unlimited volunteer to install native plant material-downtown Lititz. Installed netting to protect new plantings from the local duck population |
| | Comprehensive Strategic Planning | A year long joint planning effort was undertaken by Lititz Borough/Warwick Twp. to address a long term planning strategy. Funding provided by Lanc. Cty Planning Department |
| | Watershed Awareness Day | Warwick School Dist. sponsored first Watershed Day. Students learned about their local watershed, stressors on water quality, aquatic food chain, native plant nursery |
| | Remote sensing/Satellite Imagery | Landstudies participated in remote sensing course for land planners at Penna. State Univ. Imagery from watershed was classified to examine land use change over last 10 yrs. This data used to identify important resource areas in Watershed |
| | Water Quality Facility Completed | Santo Domingo Water Quality Facility was constructed in fall. The Santo Domingo Creek is the largest contributor of nutrients and sediment to Lititz Run. This facility was designed to provide a two step stormwater treatment. The facility will allow sediment to settle out of suspension, while a divers 3.5 acre wetland will uptake nutrients. Facility will improve water quality of Lititz Run/improve wildlife habitat and be an amenity to the local residents |

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| | Dam Removal | To improve fish passage, a dam structure was removed on Lititz Run, adjacent to the Riparian Park. The 1.5' high structure was removed and replaced with a stepped stone structure to restore a natural stream riffle sequence |
| | Project Planning | Conceptual plans have been prepared and permitting is underway for Millport Dam removal/stream restoration. Millport Mill Pond is large and shallow and contributes greatly Toward thermal pollution of stream. The project is expected to greatly improve aquatic habitat in lower reaches of Lititz Run. |
| | Baum Farm | Ag BMP's were installed during fall of 1998. BMP's used include: stream fencing/forested riparian buffer plantings, livestock stream crossings, manure storage and barnyard spouting and gutters. Project comprehensively addressed needs of farmer and natural resource. |
| | Public Outreach | The Lititz Run Watershed Alliance is currently working on producing an educational brochure and video of the watershed |
| | Lititz Run Watershed Booklet | An educational booklet entitled "The Lititz Run Watershed, a Community improving its water quality" is printed in 1999. Includes three sections: Watershed Inventory, Watershed Analysis and Watershed Plan. The Watershed Plan makes specific recommendations on how water quality can be improved in watershed. Funding was provided by DCNR's Rivers Conservation Watershed Planning Grant. Booklet was designed and written by Landstudies, Inc. |
| **1999** | Wellhead Protection Ordinance | This ordinance includes natural resource management and planning coordinated with local, county and state officials |
| | Natural Resource Compensation Receiving Areas(NRCRA) | These areas are opportunities within the watershed area for restoration projects. They have been designated and quantified by their optimum potential based on existing land use and conditions. The NRCRA's can be used as receiving areas for negotiations or regulatory compliance, or conflict resolution tools. NRCRA's identified include wetland creation and enhancements, forested riparian buffers, streambank restoration, ag bmp's and warm season grass meadows. |
| | Tax incentive-Forested Riparian Buffer | A comprehensive evaluation of a 35 foot buffer on both sides of all stream corridors within the watershed were identified, mapped and quantified by their recorded assessment based on Lanc. Cty. values. This was done in cooperation with Lanc. Cty. GIS Dept. Values were quantified on a 2,5,10,20 yr. amortization schedule |
| | Chesapeake Bay Program Living Resources Committees Tour | LRWA hosted a tour for this group -ongoing and proposed projects |

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| | Restoration/Cedar-Water St. 900 ft. | A collaborative effort between Lititz Borough and Farmers First Bank funded project. Natural channel design techniques incorporated. A created wetland is proposed to treat run off from an adjacent parking lot prior to entering the stream. Boulders required were donated by a local developer. Labor and equipment donated by Lititz Borough |
| | Wynfield Industrial Park Restoration | Approximately 15 acres of commercial land owned by 7 companies is being prepared for a warm season grass meadow and forested riparian buffer along the headwaters of the Santo Domingo Creek |
| | Restoration-Warwick H.S. Hockey | Approximately 1 mile of stream corridor was planted by this group with supervision by Donegal Trout Unlimited |
| | Monitoring | Millersville Univ. and Warwick H.S. continue to monitor the 9 stations for macroinvertebrates and water parameters |
| | Restoration | Millport Conservancy -creation of 4 acres of wetlands as a result of removing dam |
| | Watershed Awareness Education | 2nd Joint effort for 5th grade students in school district |
| | Education/Tour | PA County Watershed Coordinators tour watershed |
| | Award/State | Governor's Excellence in the Environment - 1999 Lititz Run Watershed Alliance/Landstudies |
| | Award /Federal | EPA-National Showcase Watershed-1999 LRWA/Landstudies |
| **2000** | Restoration/Sturgis Pretzel | 1400 ft. stabilization and fish habitat using Natural Channel Design Technique. Design/Build-Landstudies |
| | Zug Grant-Growing Greener | Stream Restoration - Approximately 2000 feet |
| | Wynfield Ind. Park Restoration | 2.0 acres of wetlands created and planted/coordinated with PA Wetland Replacement Fund. Design/Build-Landstudies |
| | Education/Tour | PA Watershed Coordinators Tour-watershed |
| | Watershed Awareness Day | 3rd Joint effort for 5th grade students |
| | Monitoring | Continued program with Warwick School District to monitor for macroinvertebrates and water chemistry |
| **2001** | Hurst/Wenger Farms Ag BMP's | 1200 lf of stream stabilization, pasture fencing and riparian buffer plantings |

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| | Weidler Farm AG BMP | project consisting of manure storage, pasture fencing, stream crossing and riparian buffer |
| | Millport Conservancy/Restoration | Millport Conservancy /stabilized large pond adjacent to the Lititz Run Creek |
| | Education | Educational Kiosk constructed by Trout Unlimited and LRWA at the Warwick Township Riparian Park |
| | Watershed Awareness Day | 4th Joint effort for 5th and 6th graders |
| **2002** | Newport Square Restoration | Project involves wetland creation, 14 acres of meadow grass, riparian buffer planting |
| | National Award | LRWA awarded the CF Industries National Recognition award. Four projects chosen out of U.S. |
| | Banta Ecolog. Restoration Project | 1800 lf. of stream relocation, creation of wetlands and riparian buffer plantings |
| | Monitoring | Continued stream monitoring program with Warwick H.S. |
| | Watershed Tour | DEP Secretary David Hess and state watershed coordinators tour Lititz Run |
| | Watershed Awareness Day | 5th year of over 350 5th grade students involved in watershed awareness program /David Hess attends |
| **2003** | Watershed Awareness Day | 6th year for this event. |
| | Stream Clean-up<br>Newport Square<br>Ag BMP Projects<br>Banta | Completed<br>Completed project - September 2003<br>Wenger Farm Creek Road-permit acquisition<br>Permit acquisition |
| **2004** | Stream Clean-up<br>March 20, 2004 | entire length of stream was cleaned/100 volunteers<br>1.47 tons of trash collected |
| | Watershed Awareness Day<br>Scheduled for May 11, 2004 | 7th year for this event |
| | Banta Ecological Restoration Project | Restoration/relocation-2200 lf of Lititz Run Creek<br>Restoration of large wetland area |
| **2005** | Stream Clean-up/March 19 | over 120 volunteers participated in clean-up |
| | Wenger Farm - AG-BMP project | project includes manure storage, pasture fencing, barn-yard improvements |

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| | Banta Site | Final restoration |
| | Watershed Awareness Day-May 10 | 8th year for the event |
| | Sechan Riparian Planting | 400 trees planted |
| **2006** | Stream Clean-up March 18 | Over 120 volunteers participated |
| | Hess Farm Ag Bmp Project | Barn-yard improvements |
| | 9th Watershed Awareness Day | May 9/350 students |
| | Businesses for the Bay<br>Env. Excellence Award | Ag BMP Program |
| **2007** | Stream Clean-up March 17 | Alternate schedule |
| | 10th Annual Watershed Day | May 8 – 400 students<br>LAMS students included |
| **2008** | Stream Clean-up/March 15 | 100 participants |
| | 11th Watershed Day May 13 | 400 students |
| | Bio Basin Planting/Sept. 13 | 50+ volunteers |
| | Riparian Park Enhancements/10/08 | PA Fish & Boat Commission-Adopt a Stream<br>Donegal Trout Unlimited/Lititz Sportsmen's Assoc. |
| **2009** | Stream Clean-up/March 21 | 150 volunteers |
| | 12th Watershed Day/May 12 | 380 + students |
| **2010** | Stream Clean-up /March 20 | 200 volunteers |
| | 13TH Watershed Day/May 11 | 380 + volunteers |
| | Ches. Bay Conservationist of the<br>Year Award/Warwick/LRWA | Watershed Day/Rain Barrels<br>Education Projects |
| **2011** | Stream Clean-up/March 19 | 200 Volunteers/KAB; Project Stream Clean/Ches. Bay |
| | 14th Watershed Day/May 10 | 375 students |
| **2012** | Stream Clean-up March 17 | 200 volunteers<br>KAB/Project Stream Clean |

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| | 15th Watershed Day | May 8 |
| **2013** | Stream Clean-up 11th year | March 16, 2013<br>KAB/Project Stream Clean |
| | Watershed Day 16th year | May 14, 2013 |
| | Stream Property Owner Visits<br>60 properties | Sept.-Dec. 2013 |
| **2014** | Stream Clean-up/12th year | March 15, 2014<br>175 volunteers |
| | Watershed Day - 17th year | May 13, 2014 |
| | Smucker Farm - Riparian buffer | September 2014 |
| | Rock Lititz - Flood plain restoration | Sept./Oct. 2014 |
| | Traditions of America - Riparian Buffer | October 2014 |
| | Linear Park- Repair of 5 acre wetlands | Fall 2014/Spring 2015 |

revised 9/15/2014