

History of the Lititz Run Watershed Alliance

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

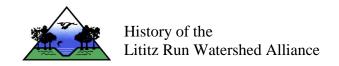
-Diamond Spring Restoration

Wenrich Farm

5,000-Embrace a Stream Award - Trout Unlimited

\$500-Diamond Spring Water Quality Award

500 linear feet of stream improvements, bank stabilization, mud sills, cattle crossings tree plantings, retention basin/reseed



installation, riparian buffer planting/reseeding. Mill Pond problem solving, coordination with PA DEP, Maintenance, selective mowing and trimming performed around riparian

buffer.

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 2,000 seedlings planted with student labor. Warwick H.S.

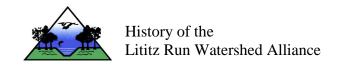
coordinates hand-on learning by growing plants from seedlings for replanting the following year on Conservancy

property.

Restoration-AG-BMP-Jake King 800 linear feet of stream improvements/rock stabilization,

regrading, reseeding, streambank fencing, cattle crossings,

access areas, tree plantings



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.

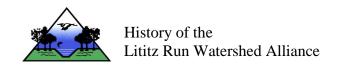
Financial sponsors of project-Borough and Farmers First

Bank. Design/construction mgmt. by Landstudies

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

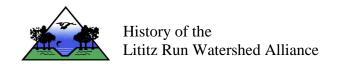
Water Quality Facility Completed Santo Domingo Water Quality Facility was constructed in fall.

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

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

Receiving Areas(NRCRA) 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

These areas are opportunities within the watershed area for

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

Natural Resource Compensation

Living Resources Committees Tour

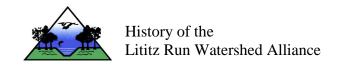
LRWA hosted a tour for this group -ongoing and proposed

projects

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 Approximately 15 acres of commercial land owned by 7

Restoration 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

Weidler Farm AG BMP project consisting of manure storage, pasture

fencing, stream crossing and riparian buffer

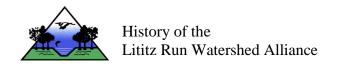
Millport Conservancy/Restoration Millport Conservancy /stabilized large pond adjacent to the

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 Completed

Newport Square Completed project - September 2003

Ag BMP Projects Wenger Farm Creek Road-permit acquisition

Banta Permit acquisition

2004 Stream Clean-up entire length of stream was cleaned/100 volunteers

March 20, 2004 1.47 tons of trash collected

Watershed Awareness Day

Scheduled for May 11, 2004 7th year for this event

Banta Ecological Restoration Project Restoration/relocation-2200 If of Lititz Run Creek

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

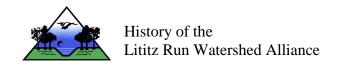
Banta Site Final restoration

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

Env. Excellence Award Ag BMP Program

2007 Stream Clean-up March 17 Alternate schedule

> 10th Annual Watershed Day May 8 - 400 students

> > 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

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

Year Award/Warwick/LRWA

Watershed Day/Rain Barrels

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

KAB/Project Stream Clean

15th Watershed Day May 8

Stream Clean-up 11th year 2013 March 16, 2013

KAB/Project Stream Clean

Watershed Day 16th year May 14, 2013

Stream Property Owner Visits

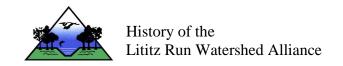
60 properties

Sept.-Dec. 2013

2014 Stream Clean-up/12th year March 15, 2014

175 volunteers

Watershed Day - 17th year May 13, 2014



Eli Smucker Farm - Riparian buffer September 2014

160 trees, 48 W. Newport Road

October 2014 - 20 trees, 1141 Brunnerville Road John King Farm - Trees planted

Linear Park – Trees planted October 2014 - 21 trees

Rock Lititz - Flood plain restoration Sept./Oct. 2014

Traditions of America - Riparian

Buffer

October 2014

Santo Domingo Water Quality Facility Fall 2014/Spring 2015 at Linear Park-Began repair of 5 acre

wetlands

2015 Stream Clean-up- 13th year March 21, 2015 - 100-110 volunteers

Watershed Day- 18th year May 12, 2015

Tree Planting- 123 trees planted at

Snavely's Mill

September 26, 2015

Tree Planting- 27 trees planted at

Forney Field

October 15, 2015

Tree Planting- 14 trees planted as

Riparian buffer at Rock Lititz

October 16, 2015

Stream Clean-up- 14th year 2016 March 19, 2016 - 108 volunteers

> Watershed Day- 19th year May 10, 2016 - 286 students

Inlet Markers- 73 new inlet

markers installed & 36 existing inlet markers verified (Eagle Scout Project) October 22, 2016

2017 Stream Clean-up- 15th year March 25, 2017

160 volunteers - 1.21 tons of trash

Watershed Day- 20th year May 9, 2017

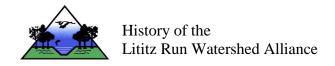
375 students

Santo Domingo Water Quality

Facility at Linear Park

September 9, 2017

3,200 plugs planted by Boy Scouts and LRWA (Eagle Scout Project)



2018 Stream Clean-up- 16th year March 17, 2018

150 volunteers - 1.1 tons of trash

Watershed Day- 21st year May 8, 2018

337students

2019 Stream Clean-up- 17th year March 16, 2019

183 volunteers - 1.04 tons of trash

Tree Planting April 6, 2019

800 trees planted at Saylor Park

Tree Planting April 9, 2019

575 trees planted a Hunter Hess property, 400 Becker Road

Watershed Day- 22nd year May 14, 2019

257 students