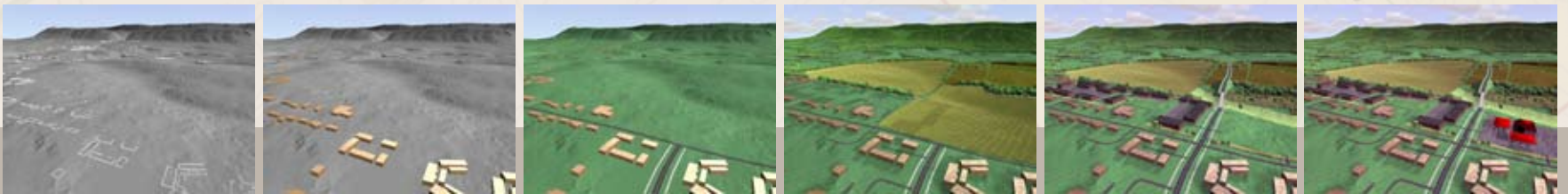
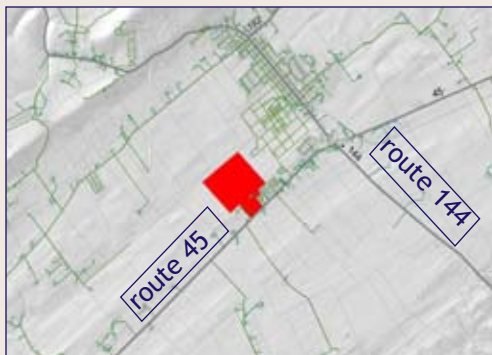


L. A. Wasser



planning. visualization

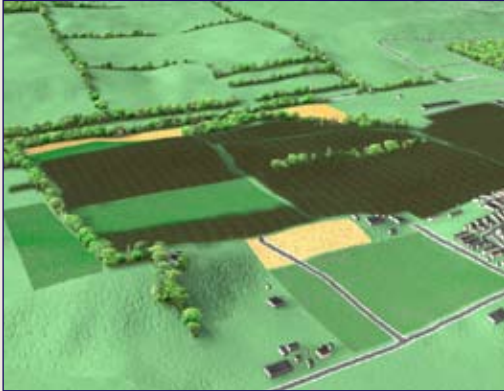




site location

approved subdivision / conservation design alternative

existing site



approved plan



alternative



Objective: visualize approved subdivision plan and conservation design alternatives that follow existing residential zoning and are similar in density to approved plan.

Partners: Centre County Planning Agency

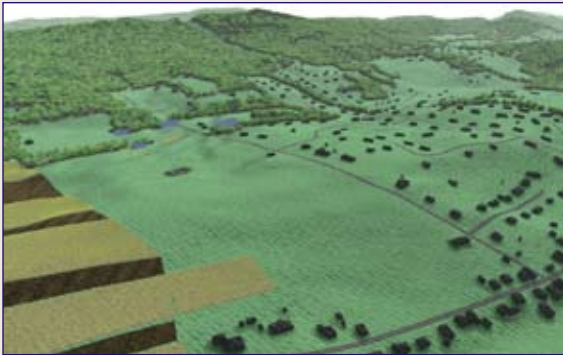
Technology: Visual Nature Studio, 3d studio max, Poser, ArcGIS & ArcInfo (topogrid)

penns valley - centre county, pa



Design: Kelleann Foster

visualization - site design / rezoning request



Existing site



ArcGIS base map - Kelleann's design
ortho-rectified to line up with
planimetric data



Objective: visualize rezoning request
/ subdivision plan for halfmoon
township; plan allowed for higher
density development following the
small town character of Stormstown
Village along the corridor of route
550.

Partners: Centre Region Planning
Agency

Design: Kelleann Foster

Technology: Visual Nature Studio,
ArcGIS, ArcInfo (topogrid), Poser, 3d
Studio Max



near Calvert Cliffs State Park

visualization of the John Smith voyages - 1608



Objective: visualize the Chesapeake Bay natural and cultural landscape and environment as experienced by John Smith in 1608.

Partners: Chesapeake Bay Gateway Program, Smithsonian, St. Mary's City and others

Technology: Visual Nature Studio, 3d Studio Max, Poser, XFrog



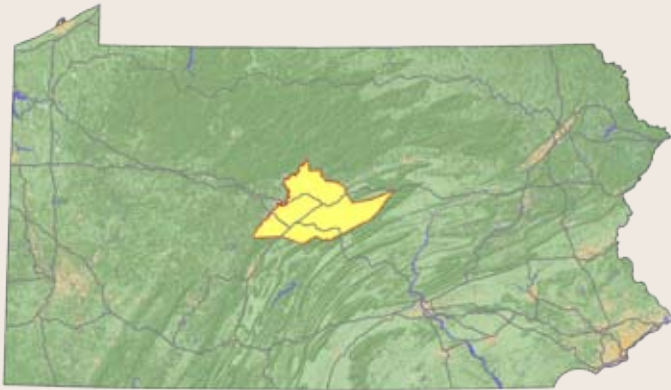
Calvert Cliffs



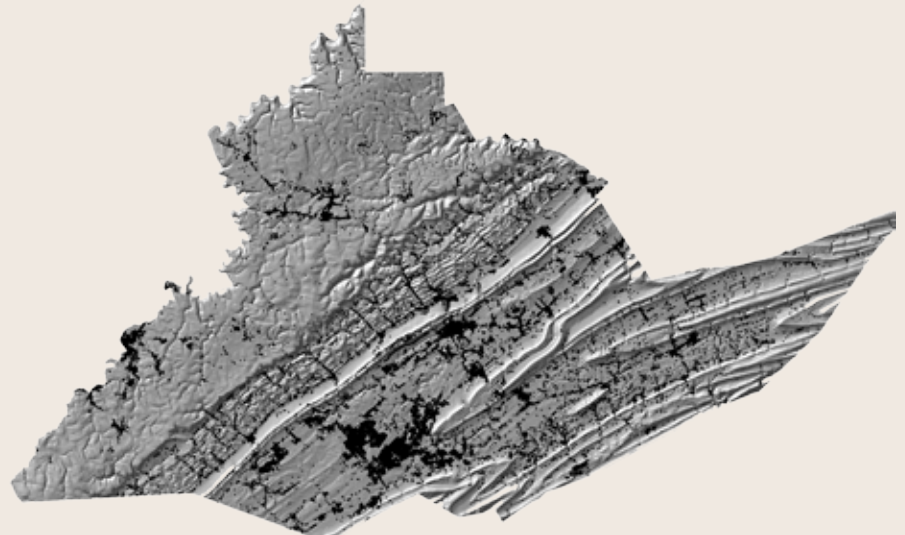
chesapeake bay watershed

data.analysis
planning

data collection

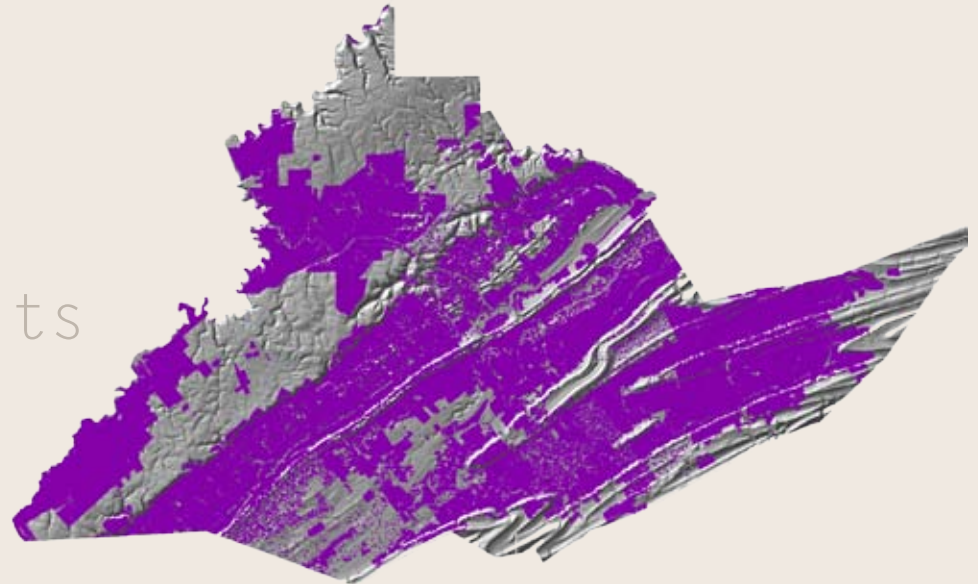


Centre County, PA



black data points represent existing buildings in Centre County

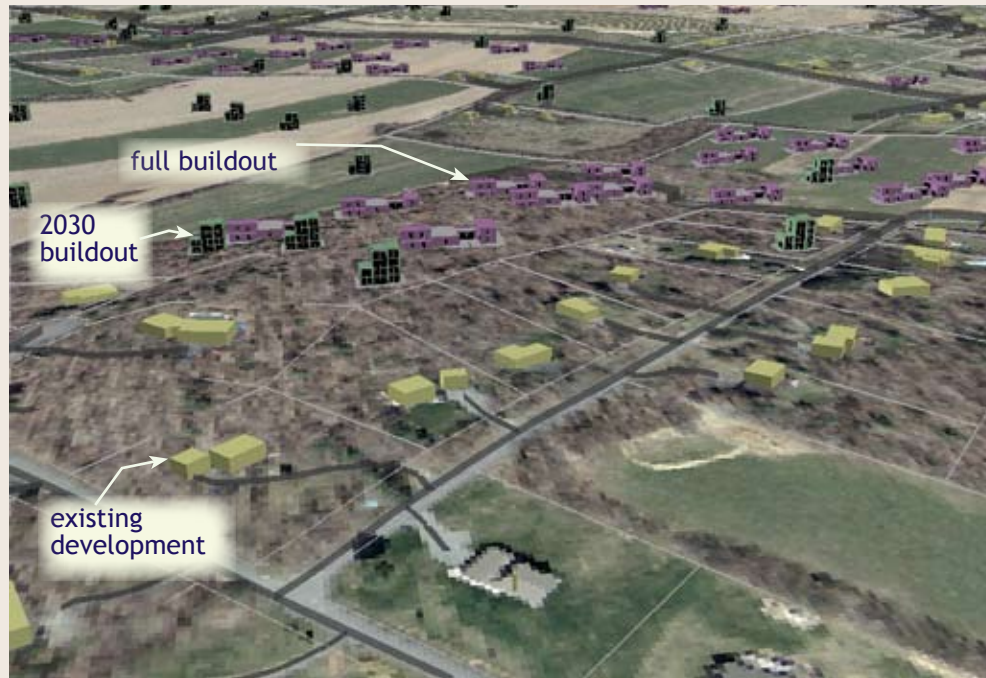
run model --> results



magenta data points represent new buildings following buildout analysis

growth forecasting & impact assessment - CommunityViz

results & analysis



Objective: use CommunityViz to perform build-out analysis and impact assessment for all municipalities in Centre County, PA; assess CommunityViz as a planning tool.

* Assessed impacts include: loss of prime farmland, water and sewer analysis (consumption, soils, etc), traffic analysis, and others

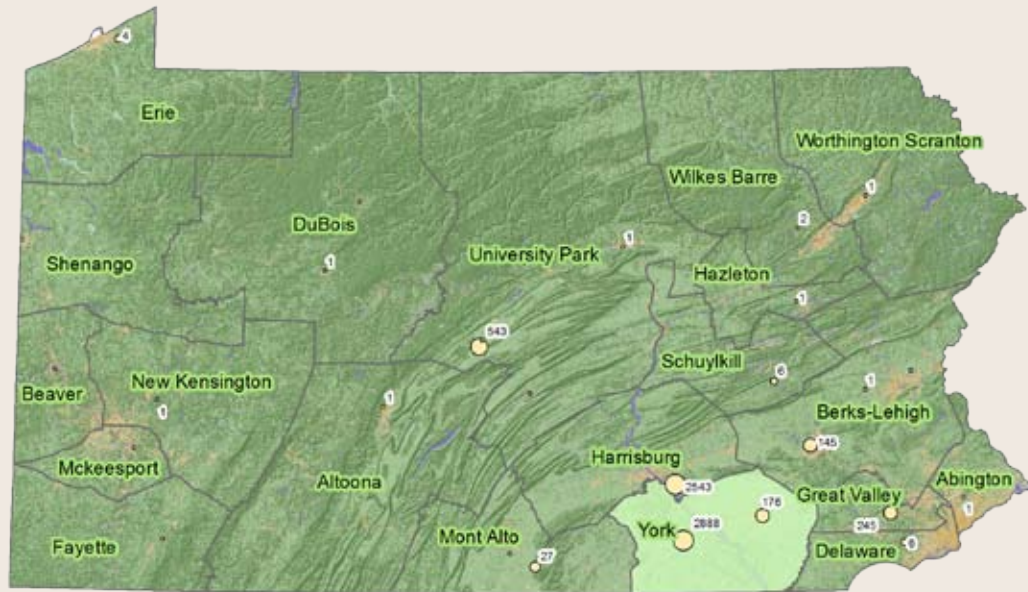
Partners: Centre County and Centre Region Planning Agencies, Township Supervisors from various municipalities in the county.

Technology: CommunityViz Extension for ArcView, ArcInfo, 3d Analyst

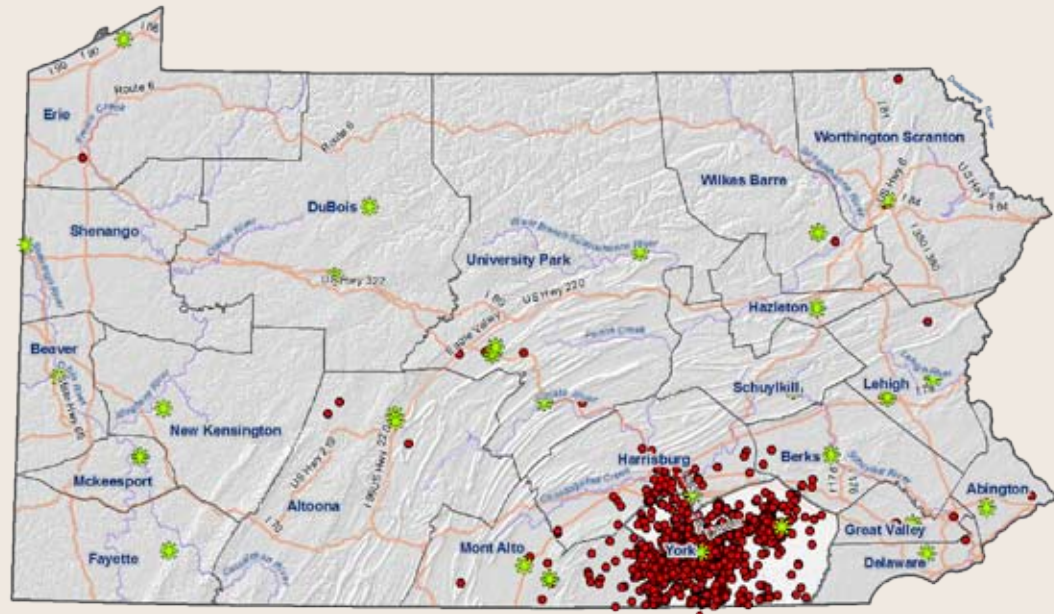
centre county, pa

campus analysis

where students who live
within the york campus
service area go to school

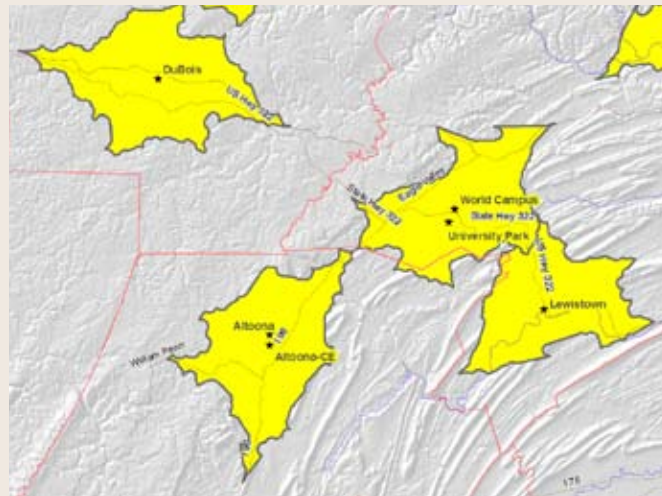
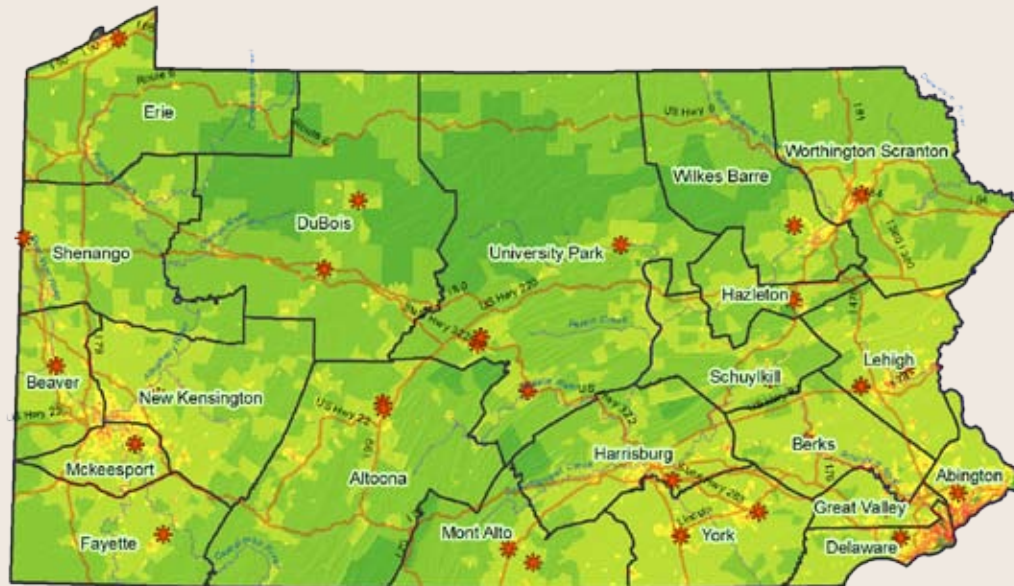


where students
who go to York
Campus live
(geocoded points)



continuing ed. branch campus service area analysis

travel demographic analysis



25 minute travel time boundaries (network analyst)

Objective: analyze and assess penn state continuing educationservice area boundaries.

Partner: Penn State Continuing Education

Technology: ArcGIS, Network Analyst extension

The Pittsburgh-to-Harrisburg Mainline Canal Greenway



More Than a Trail

A greenway is a linear corridor of open space. They can vary greatly in scale from narrow ribbons of urban, suburban, and rural lands to wide corridors of diverse natural, cultural, and scenic features. While some greenway initiatives focus predominantly on recreational corridors and trails, others predominantly consider environmental stewardship efforts such as riparian buffers, water quality, wildlife corridors and sustainable landscape development.

Greenways differ in their location and function, but overall, a greenway network will:

- Protect natural, cultural, and scenic resources.
- Provide recreational benefits to adjacent communities.
- Enhance the natural beauty and the quality of life in neighborhoods and communities.
- Stimulate economic development opportunities.

Pittsburgh-to-Harrisburg Get Involved

Pennsylvania's "Millennium Legacy Trail," the Pittsburgh-Harrisburg Mainline Canal Greenway follows the historic path of the Pennsylvania Mainline Canal System in a four-mile-wide, south along the Allegheny, Kiskadeemung, Juniata and Susquehanna Rivers and through many communities between Pittsburgh and Harrisburg. This project is a network of individual initiatives managed by local partners throughout the corridor. The network includes not only trails, but also public river access areas, historic downtown revitalization, heritage preservation, and environmental stewardship projects, such as riparian corridor restoration.

Do you want to learn more about the Pittsburgh-to-Harrisburg Greenway? Do you have ideas to share with us about your community's project? We, at the Allegheny Ridge Corporation, want to hear from you!

In the upcoming months, we will be holding 3 rounds of public meetings to solicit your input, hear us for these meetings and share your ideas, knowledge and expertise with us and your neighbors. Contact us by email at info@alleghenyridge.org or by phone at 814.986.3900.

Allegheny Ridge Corporation
1240 Dry Run Road
Harrisburg, PA 17105

What the Greenway can do for your community:

- Help create and link recreation opportunities across the region.
- Integrate environmental, cultural and recreational issues as a comprehensive approach to community planning.
- Promote local resources in a regional context.
- Raise awareness of new projects and programs along the greenway corridor.
- Link the recreational demands of our urban markets with the amenities of nearby rural areas.
- Encourage and promote historic downtown revitalization and heritage tourism.
- Integrate the unique cultural and industrial history of places along the greenway.
- Identify, interpret and preserve historic resources throughout the corridor.



Objective: celebrate and interpret the historic Pennsylvania Mainline Canal route via a greenway connecting Pittsburgh and Harrisburg.

* GIS maps / database were utilized for education and outreach in public meetings.

Partners: many stakeholders across the state, PA Department of Environmental Protection, PA DCNR


Fact Sheets designed in Adobe Illustrator (went to press August 2002)

PA Mainline Canal

In the 1830s, the Pennsylvania Mainline Canal System paved the way for expansion westward from Philadelphia, across the Alleghenies to Pittsburgh and beyond. A way of life sprang up along this corridor as Pennsylvania prepared for a century of nation-building.

Even after a couple hundred years of industrial activity in its various incarnations, western Pennsylvania is still a wild and scenic place. Today it's difficult to imagine just what things used to be like before highways, bridges and railroads snaked up to top from one ridge or valley to the next. The rugged topography which proved to be well-suited for coal extraction, and the steep forests with their seemingly endless supplies of timber, were formidable obstacles of yesterday.

The 2800' tall Allegheny Ridge (also called the Allegheny Front) was the most formidable of these barriers, until the era of Pennsylvania's first major transportation improvement: the National Pennsylvania Mainline Canal. Completed in 1834, the Pennsylvania Mainline Canal System paved the way for expansion westward from Philadelphia across the Alleghenies to Pittsburgh and beyond. A way of life sprang up along this corridor as Pennsylvania prepared for a century of nation-building.



The Pittsburgh-to-Harrisburg Mainline Canal Greenway is a linear corridor that follows the path of the historic mainline canal system; it will foster regional environmental, cultural and recreational land linkages.

About ARCorp

The Allegheny Ridge Corporation (ARCorp) is a private, not-profit corporation which develops, interprets and restores the historic, cultural and natural resources of the Allegheny Ridge Heritage Area in central-western Pennsylvania. ARCorp works with many non-profit partners to develop heritage-based tourism, environmental, and quality-of-life infrastructure projects throughout the Allegheny Ridge. Pennsylvania's Heritage Region are helping to lay the groundwork for the state's emerging service and technology economy.

Heritage Tourism Participation

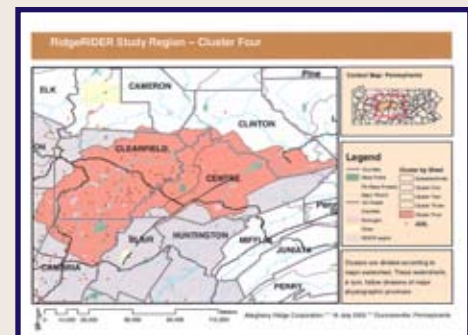
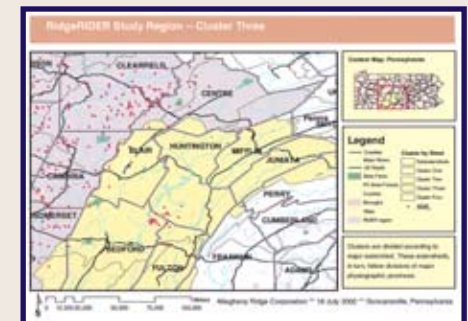
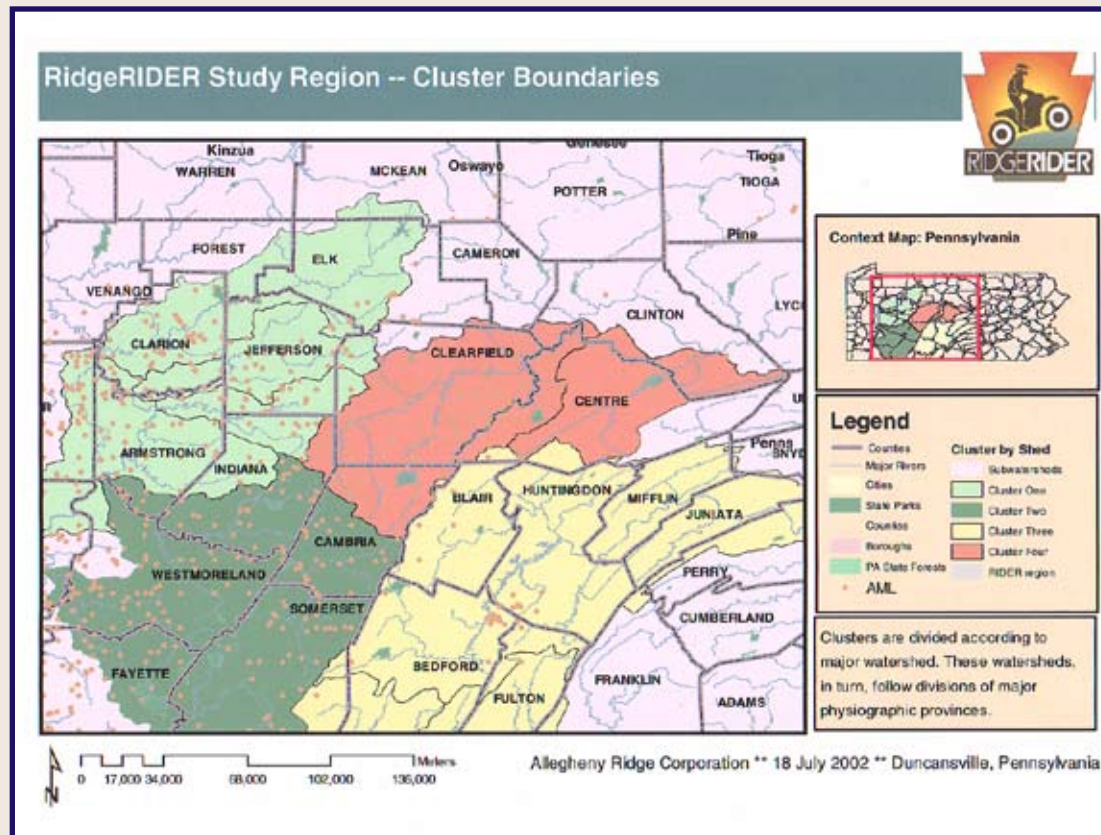
Percentage of NE Visitors: Ranked by State (Percent participation: first January 1995)

State	Percentage
Pennsylvania	25%
New York	20%
Ohio	15%
West Virginia	10%
Virginia	5%
North Carolina	5%

Heritage tourism is a driving force significant in the 21st century. Specifically, Pennsylvania has the most scenic region in percentage of heritage tourism.

Allegheny Ridge Corporation: Trail Headquarters: 1240 Dry Run Road • Harrisburg, PA 17105 • Tel: 814.986.3900 • Fax: 814.986.3905
This project was partially funded by The Northeastern PA Heritage Preservation Commission and through a PA DCNR, Bureau of Recreation and Conservation grant.

pittsburgh-harrisburg mainline canal greenway

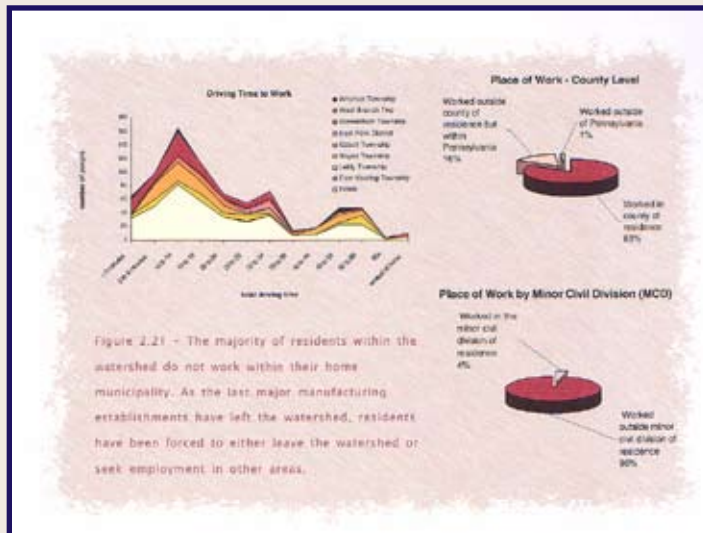


Objective: reclaim abandoned strip mines with sustainable, recreational off highway vehicle (OHV) trail systems / parks.

Partners: PA DEP, PA DCNR, PA OHV, Stakeholder groups in the South / Central Portion of PA.

Technology: ArcGIS (attained through a PA DEP grant which I wrote in the Fall of 2001)

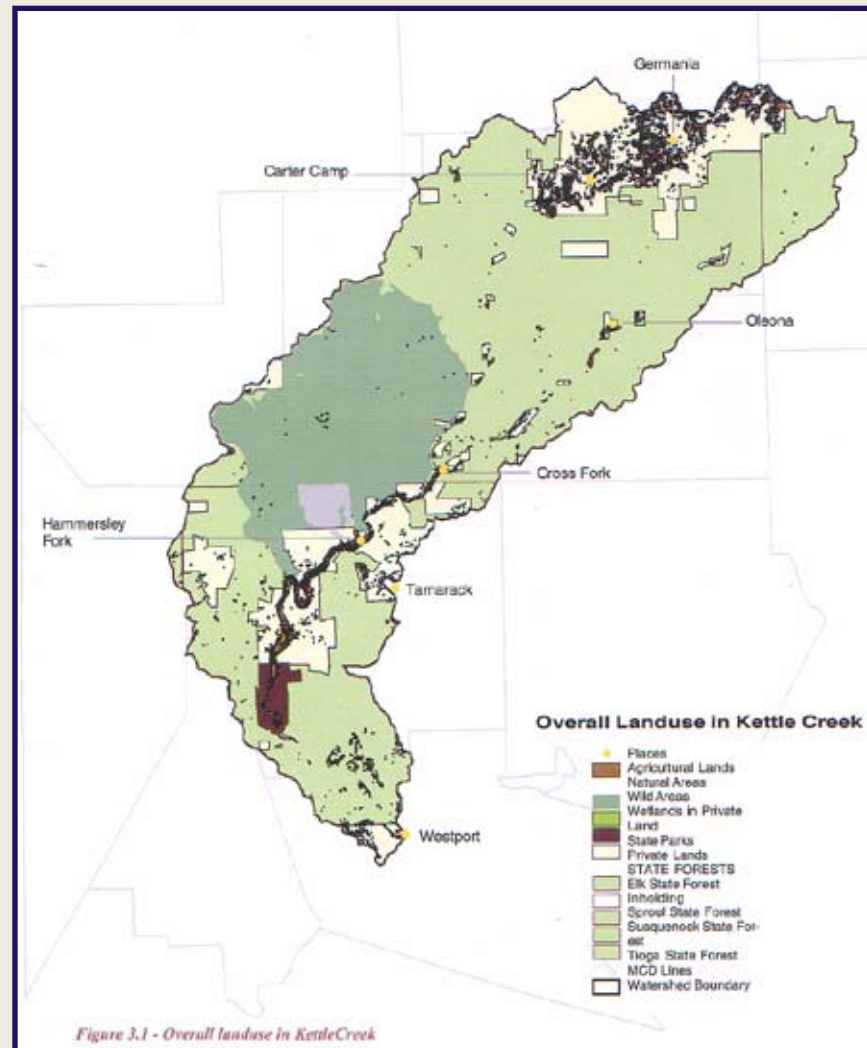
RidgeRIDER - south / central pa



Objective: create a inventory, assessment and analysis plan document for the kettle creek Watershed.

- * interdisciplinary graduate student effort
- * landuse and demographic analysis were a primary focus of my analysis
- * final product was a 300+ page document

Technology: ArcView 3, PageMaker, Photoshop, Excel



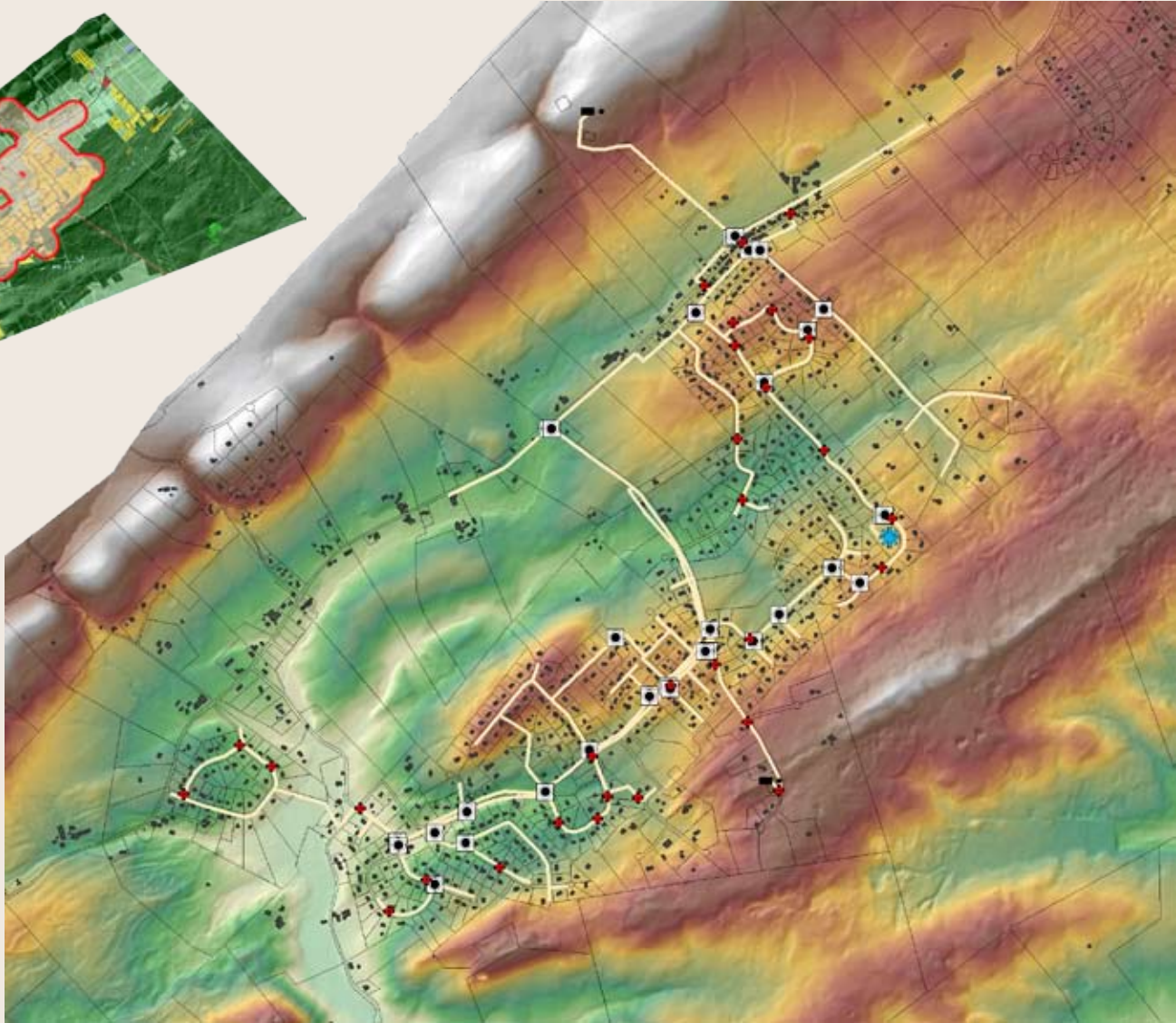
kettle creek watershed plan

education.outreach

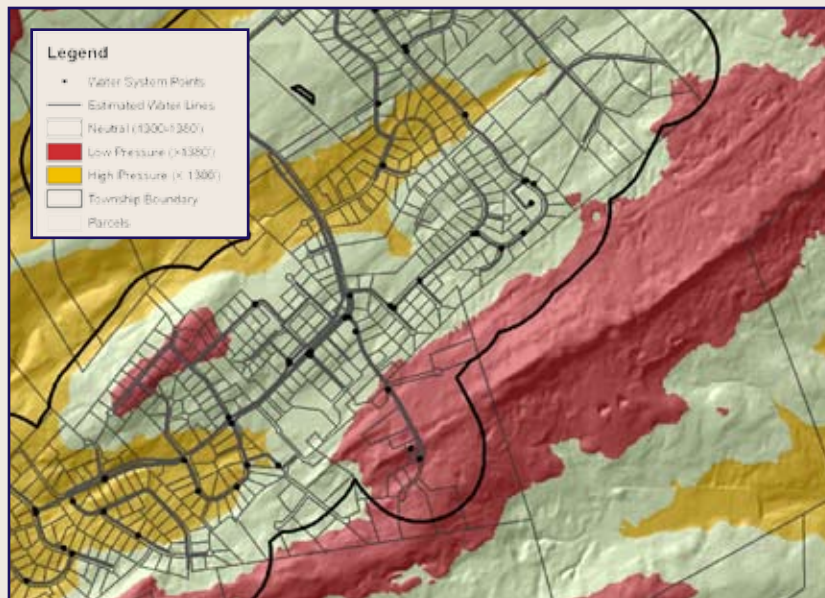
data collection (GPS) / base map



Halfmoon Township -
Centre County, PA



halfmoon township water system - map, analyze, train



water pressure analysis using digital elevation model (DEM)

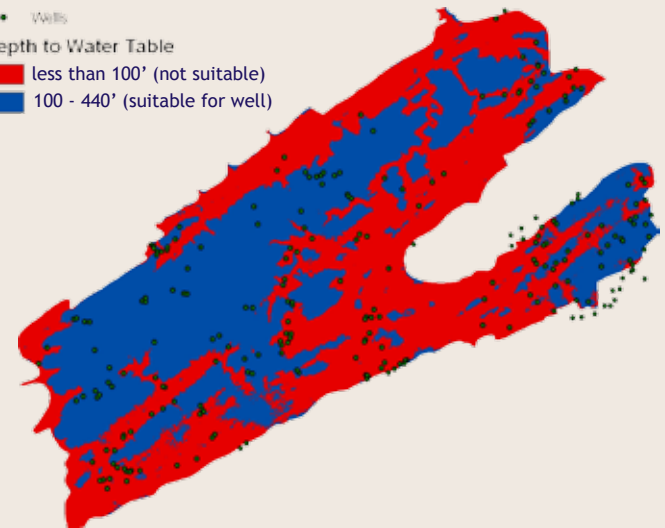
Legend

• Wells

Depth to Water Table

less than 100' (not suitable)

100 - 440' (suitable for well)



data analysis



well head protection - landuse analysis of 200m buffer

Objective: analyze and map halfmoon township water system

- * create educational modules that teach small water system managers how to use GIS to map, manage and analyze their water system
- * Training Modules & Data: 2 part series to be available online via RGIS Web site (www.ruralgis.org).

Technology: ArcGIS, Spatial Analyst, 3d Analyst

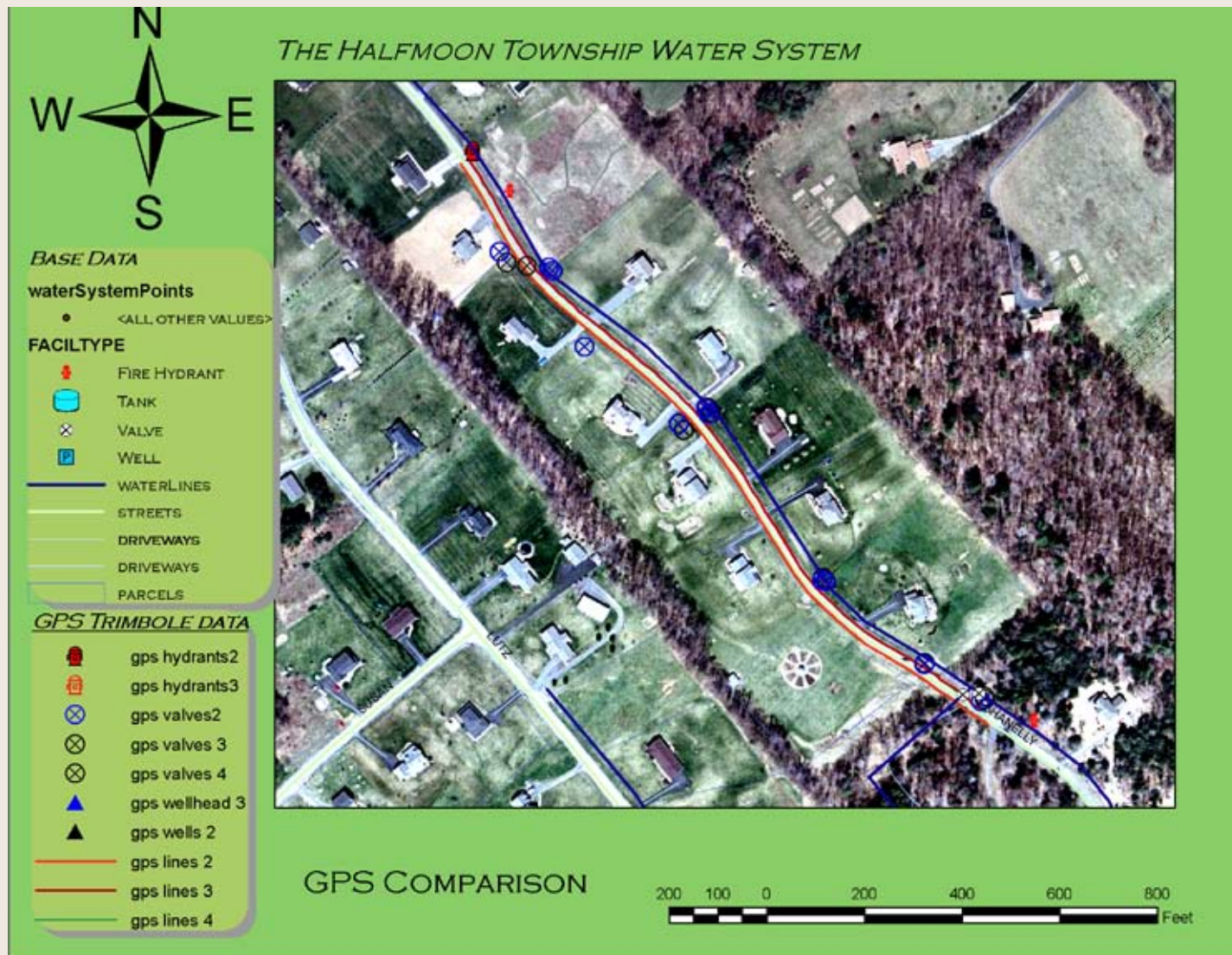
centre county, pa



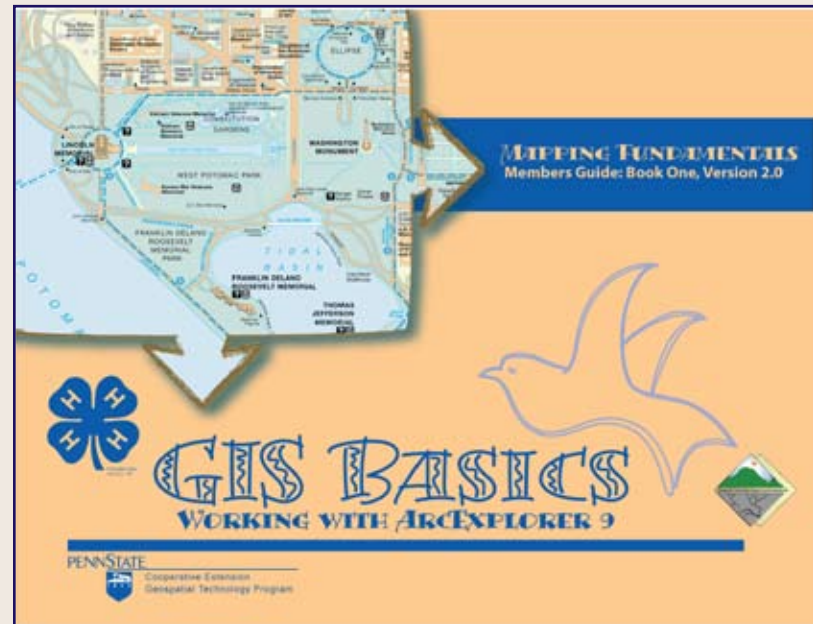
2005 & 2006 camps - mapping halfmoon township water system using Garmin and Trimble units

education.outreach - youth

student work - mapping & analysis



this student chose to compare existing hand-digitized water system data with field acquired GPS data; students performed a variety of different analyses on water system data.



ABOUT GIS

AN INTRODUCTION TO GIS

GIS stands for Geographic Information System. GIS allows you to combine and organize many layers of spatial information in a digital format — such as roads, streams and buildings (also known as GIS THEMES). These themes can be combined to create MAPS that illustrate information about a place. We can use these maps to gain a better understanding of a place. In addition to simply seeing what is there, these themes or layers can be used to ANALYZE where you live, which can help us make informed decisions about particular things. For instance, we can use GIS to find the best place to build a new house. Or we can use GIS to locate the best spots in an area for farming. In this chapter we will look at why GIS is important and how it affects you in your everyday life!

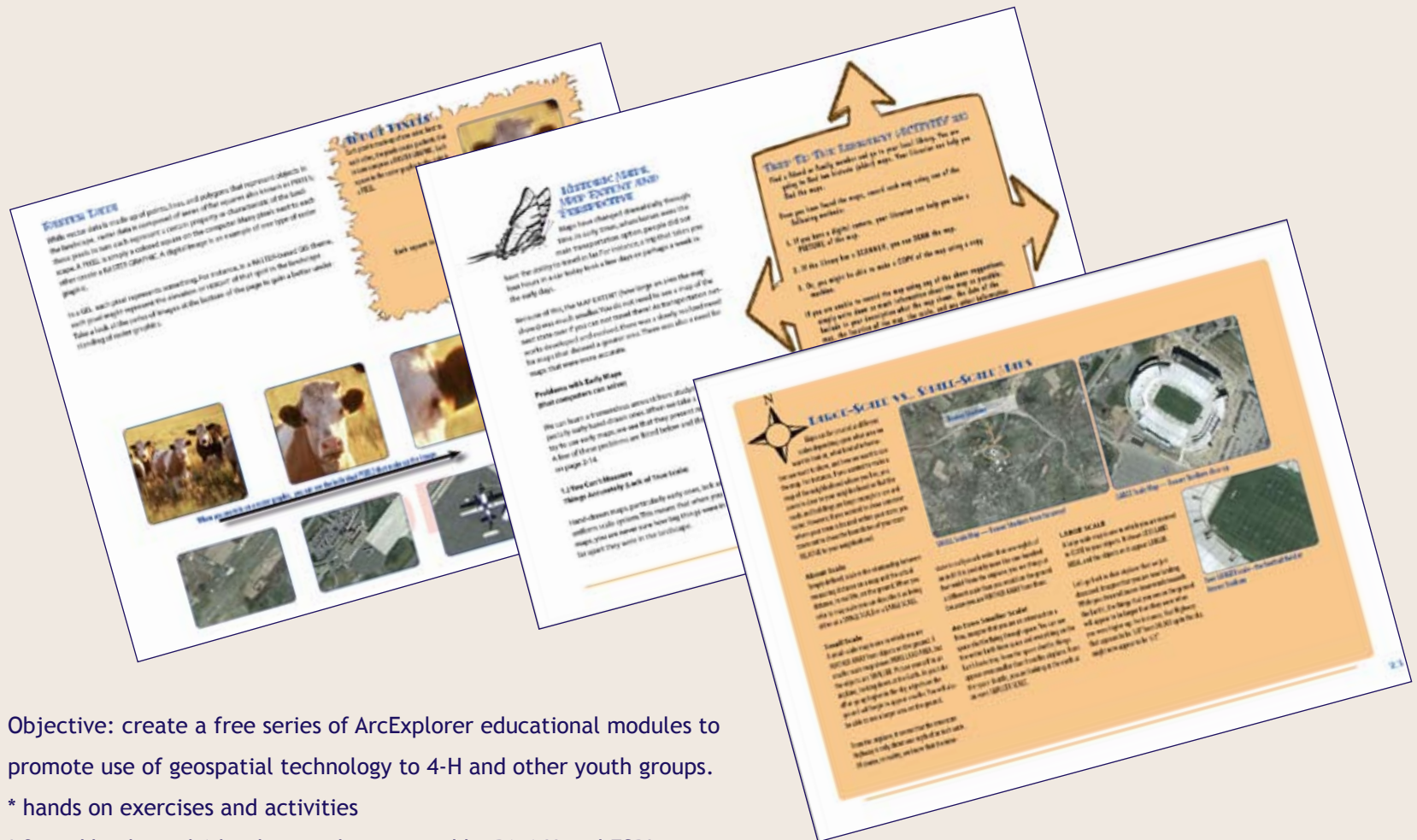
HOW IS GIS USED?

Whether you realize it or not, GIS is used every day for many different things — things that even affect you in the next few pages, we will take a look at what GIS is and why it is such a powerful tool!

THE RED ARROW IN EACH PICTURE ON THIS PAGE REPRESENTS THE SAME VIEW:

Looking at the city of Philadelphia from the steps of Independence Hall

Looking at the city of Philadelphia from an airplane 70,000 feet



Objective: create a free series of ArcExplorer educational modules to promote use of geospatial technology to 4-H and other youth groups.

- * hands on exercises and activities
- * 3 workbooks and 1 leaders guide approved by PA 4-H and ESRI
- * free downloads: ESRI, Pennsylvania 4-H, National Consortium for Rural Geospatial Innovations in America (RGIS) & PSU Geospatial Technology Program

Technology: ArcExplorer (free download) - data provided with manual;
layout / content: Indesign, Illustrator & Photoshop



GIS for youth

construction.implementation



Finished wetland mitigation project in Virginia



virginia wetland mitigation site before



stream restoration: soft & hard engineering installation

construction - field work



stream restoration: grading & installation of coir matting & live stakes

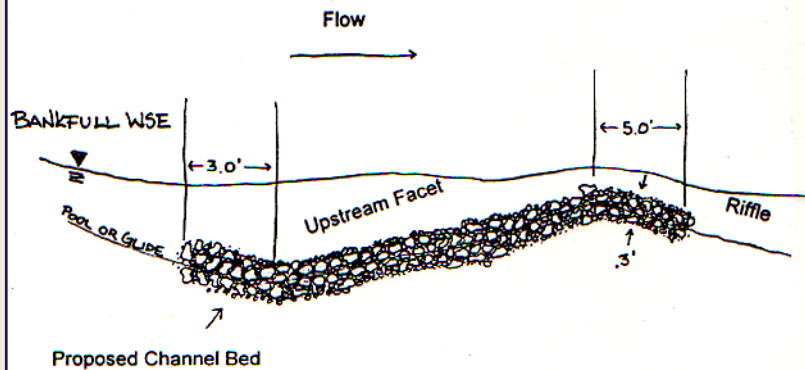


ENVIRONMENTAL QUALITY
RESOURCES, LLC -
GAITHERSBURG, MARYLAND
* Field work and supervisor
* projects included stream
restoration and wetland
mitigation

stream restoration * wetland mitigation

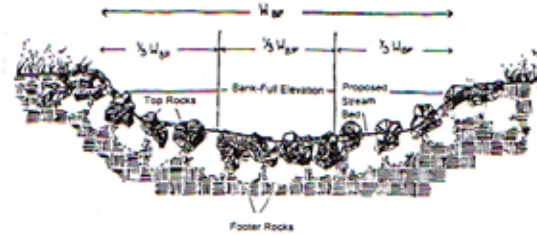
STREAM STABILIZATION

Packed Cobblestone & Gravel - Section not to scale

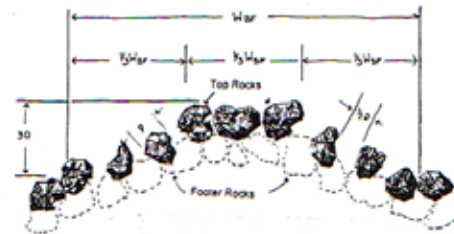


STREAM STABILIZATION

Cross Weir - Section not to scale



Cross Weir - Plan not to scale



Objective: create stream restoration construction details for
Environmental Quality Resources, LLC
Medium: Ink on Vellum

construction details

Coconut Coir Fascine Installation undercut banks

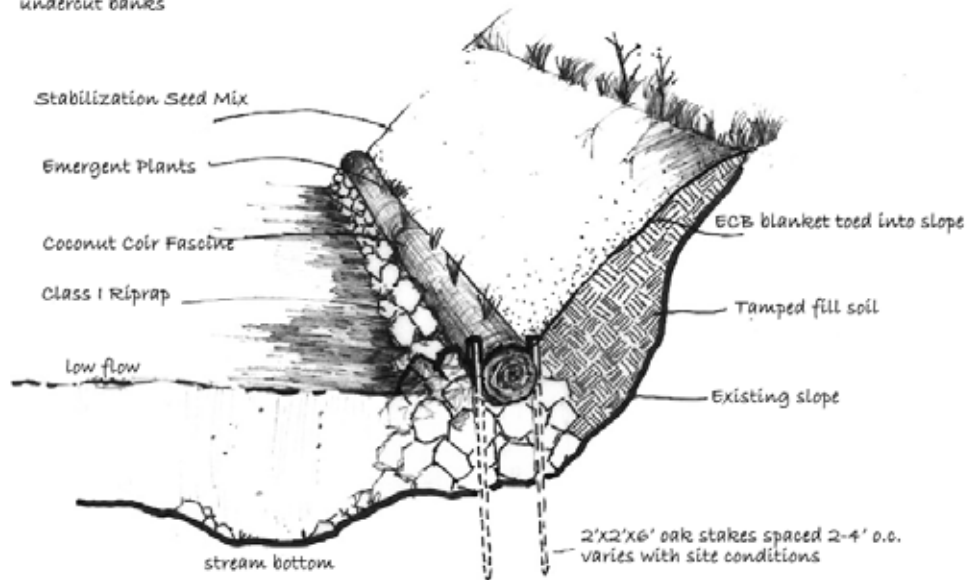


Fig. 6.5: coconut coir fascine installation, toed into the slope, and secured with stakes and riprap

Brush Layer Bank Stabilization

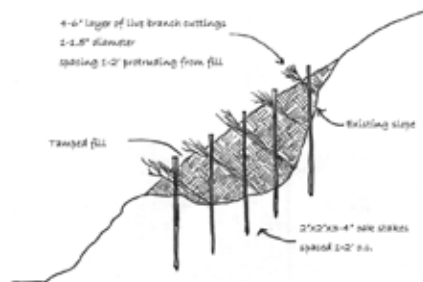


Fig. 6.2: Brush bundles installed on a slope serve to break up the slope and retard water velocity (adapted from Denberry 1996)

Root Wad Installation

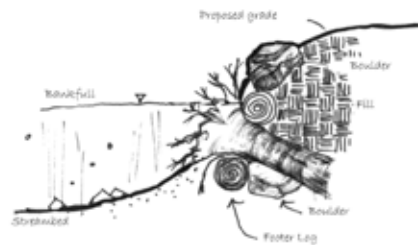
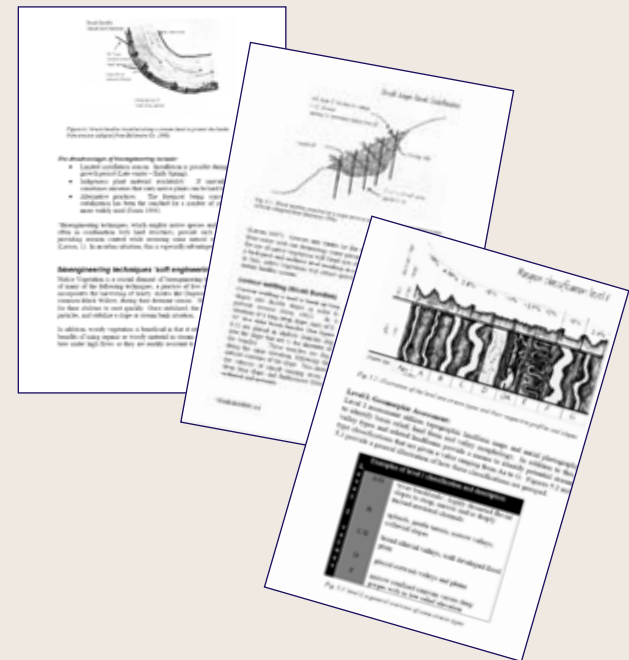


Fig. 6.11: root wad construction detail (Rosen 1996)



Objective: study art and science of stream restoration and related water quality and quantity issues in an urban context.

Illustrations: ink on vellum

publication.project promotion



Objective: provide support for the GIS for Local Government Conference - 2003-2005

- * web site design and maintenance
- * speaker coordination / compilation of speaker/ abstract book
- * database-driven (asp) online abstract and biography database
- * creating of final online proceedings

Technology: html, asp, css, microsoft access

conference planning & coordination

landscape ecology architecture

THE MAGAZINE OF THE

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

VOLUME 28

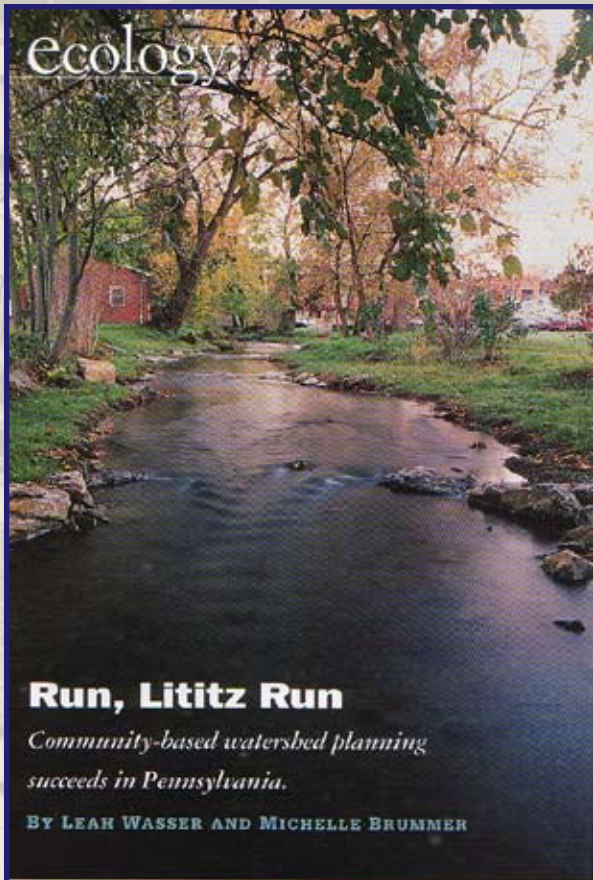
\$7.00 U.S./\$9.00 CAN.



LAM Article published August 2000.

publication

ecology



Run, Lititz Run

*Community-based watershed planning
succeeds in Pennsylvania.*

BY LEAH WASSER AND MICHELLE BRUMMER

Ten years ago, a few trout fishermen in southeastern Pennsylvania began improving the fish habitat in their local streams. Knowing that Lancaster County has the highest number of coldwater limestone streams in Pennsylvania, they thought it should have some of the best trout fishing in the state. But development was infringing on vegetated stream corridors, disrupting the wildlife population, and impairing natural filtration

processes. Problematic agricultural practices, such as conventional tillage and cattle grazing, were contributing to erosion and downstream sedimentation. Sediment from eroding streambanks and agricultural and urban runoff had filled the once deep, cool channel of one Lancaster County stream, Lititz Run, causing it to widen, shallow, and warm. Trout and shad populations, and the insects upon which they feed, could no longer tolerate these conditions.

Degraded stream conditions inspired the local chapter of Trout Unlimited to initiate restoration of Lititz Run from its headwaters in the town of Lititz

September 2005

Pennsylvania State University



AgMap offers a world of products and services beyond traditional farm products. A searchable database yields thousands of sites: wood and lumber, landscape specialties, and much more.



LAND INFORMATION *Bulletin*

A publication of the National Consortium for Rural Geospatial Innovations

AgMap

**Direct-marketing Website
promotes Pennsylvania agriculture**

Pennsylvania has a powerful new tool for promoting its agricultural industry—AgMap, a comprehensive, on-line directory of agricultural businesses. Consumers can find homegrown products in rural areas, equipment suppliers, or expert advice on plant nutrition—all with the click of a mouse. AgMap also is boosting businesses throughout the state, helping them grow with its accessible, direct-marketing strategy. Free for all Pennsylvania businesses, the Website is funded by the Pennsylvania State University Cooperative Extension, the Pennsylvania Department of Agriculture, and RGIS.



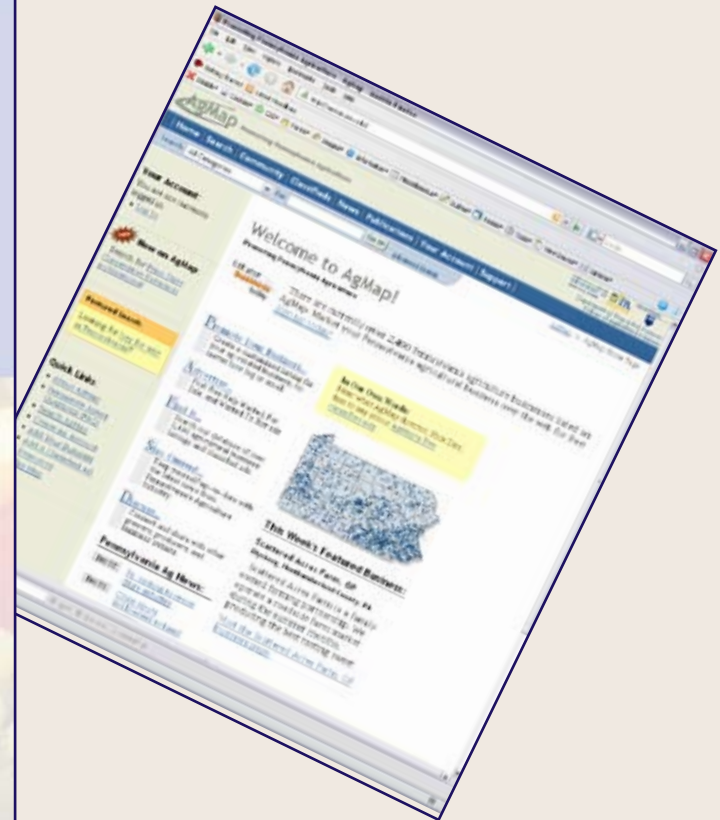
Imagine a roadside stand that offers abundant fresh produce, consumer information, crop-management consultations, and a cornucopia of agricultural supplies and equipment. That's the idea behind AgMap—a free, on-line directory of Pennsylvania agricultural businesses. From alpacas to zinnias, AgMap brings a world of products and services to your doorstep.

A boon to business

Often, businesses suffer because of lack of time and resources for effective marketing and advertising. In addition, many quality, rural businesses are in remote, hard-to-find locations. AgMap is a virtual storefront for agricultural businesses; currently thousands are listed. With access to a computer and the Internet, consumers can meet their agricultural needs, and agricultural businesses, producers, and organizations can get the word out about their products and services. Businesses without Web access can visit their local cooperative extension office for assistance.

AgMap is also an effective tool for marketplace analysis, helping businesses find their niche in a location where they can prosper. Besides serving individuals, the Website also bolsters visibility—and profitability—for Pennsylvania's agricultural industry, which is ranked second in the nation in direct-marketing sales.


<http://agmap.psu.edu>

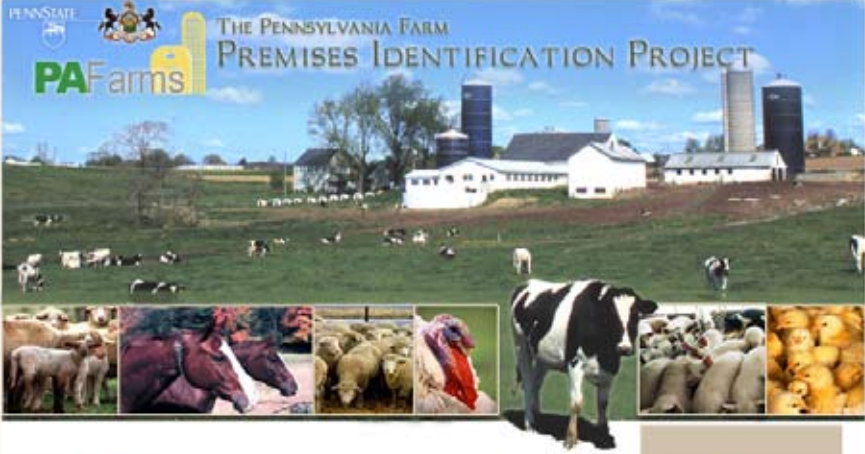


Objective: provide technical support and create promotional materials for the AgMap Web site

- * promoting pennsylvania agriculture
- * <http://agmap.psu.edu>
- * RGIS bulletin publish in 2006

AgMap - promoting pennsylvania agriculture

PENNSYLVANIA  **THE PENNSYLVANIA FARM PREMISES IDENTIFICATION PROJECT**



Current Status!

If you haven't received a mailing or responded to a mailing yet, you will be able to enter your information about your premises ONLINE at <http://farminfo.psu.edu> starting in August 2006. Please help us continue to protect Pennsylvania agriculture by adding your farm today!

The Pennsylvania Farm Premises Identification Project Web site

What is PAFarms?

PAFarms is fundamentally, a GIS or Geographic Information System that will allow the PA Department of Agriculture to effectively manage all emergency situations, mainly within the Bureau of Animal Health and Diagnostic Systems. It facilitates

PA FARMS MAILING

- WHAT DO I DO WITH THE MAILING?

PROJECT BACKGROUND

- AUDIO: SEC. WOLFF'S ANNOUNCEMENT
- HOME - ABOUT THE PROJECT
- WHY IS THIS NECESSARY?
- TYPES OF FARMS THAT APPLY?
- WHAT ARE OTHER STATES DOING?
- WHAT YOU SHOULD DO
- TIMELINE AND CONTACT INFORMATION

ADDITIONAL MATERIALS

The Pennsylvania Farm Premises Identification Project Web site

Did you receive the recent PA Farms mailing? Click here to learn more.

Download a copy of the map you received in the mail!

Download A Map Of Your Zip Code!

To begin, click on the link below that represents the numeric range where your zip code would be found:

00-29-3999 | 3000-3999 | 4000-4999 | 5000-5999 | 6000-6999 | 7000-7999 | 8000-8999 | 9000-9999

The maps listed below are in Adobe PDF format to download one, simply click on the link and select "Save target as". You can also view the PDF by simply clicking on the site.

All Zipcodes

- 00000
- 00001
- 00002
- 00003
- 00004
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- 00008
- 00009
- 00010
- 00011
- 00012
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LANDSCAPE ARCHITECTURE
Spring 2005 **418**



Final Project - Spring has final arrived!!
Visit Objective Networks site for SketchUp Components / Models
JUST ADDED: Project 3 - Final Project (this is a pdf document!)

Welcome to the LArch 410 Website!

About the Course

The goals and aspirations of teaching a digital design process vary widely between different design programs and educational institutions, as well as between academia and the profession. However, at the core of three dimensional design is:

1. the ability to visualize and understand, manipulate and represent form and space
2. a general understanding of the different tools (software and hardware) and techniques available to use to work up and present your design.

The Course This course is intended to help students make more effective use of digital design tools as they explore and develop design ideas. It provides an opportunity to learn the process of digital design as an endeavor independent of the design studio and still closely linked to it. The use of ongoing studio projects will be integrated into the coursework wherever possible. "Interactive Digital Design" has six basic educational goals:

1. To teach students to design using 3D modeling software as an alternative to the traditional plan and elevation process; to understand the value of a digital-based analysis and evaluation.
2. To encourage students to think and design three dimensionally, using a variety of forms, materials and transformations.

course information

- HOME LArch 410 home page
- CALENDAR LArch410 Schedule
- FILE NAMING how to name your files for all future LArch 410 submissions
- STUDENT GALLERY view student work
- THE PROPOSAL (pdf) digital shadow option
- ANGEL use this to submit work
- DRAWING POLICY
- ZIPPING FILES - NEW

Quick Downloads

- SYLLABUS requires adobe acrobat
- PROPOSAL requires adobe acrobat
- PROJECT 1 requires adobe acrobat
- PROJECT 2 requires adobe acrobat
- FINAL PROJECT

LANDSCAPE ARCHITECTURE
Spring 2005 **418**




Architectural Engineering - Lighting option
more Taylor

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Course Calendar

new January Archives
new February Archives
new March Archives

April

Tuesday 5 April
In Class - work on final project

Thursday 7 April
Photoshop & Textures - Bringing your Final Project to life...
This class will be a basic overview of Adobe Photoshop. Also demonstrated will be some texture mapping techniques that you can use to create realistic exterior textures such as brick.

Objective: develop curriculum for and teach Landscape Architecture 410

* Poser, SketchUp, FormZ

* Materials, calendar, updates and student work available online.

* mix of students including Landscape Architecture, Architectural Engineering, ITS and more

landscape architecture 410

hand.graphics

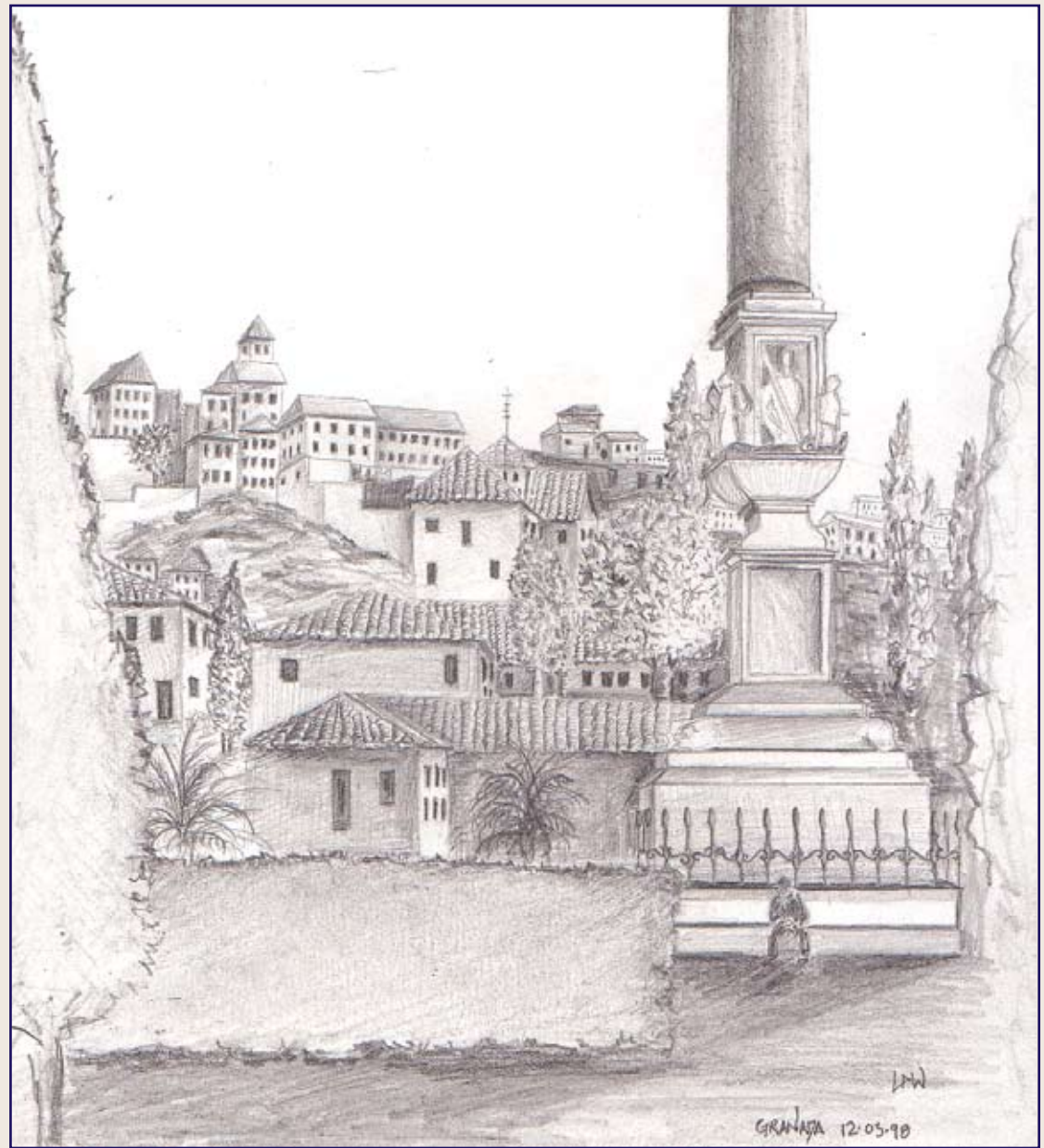




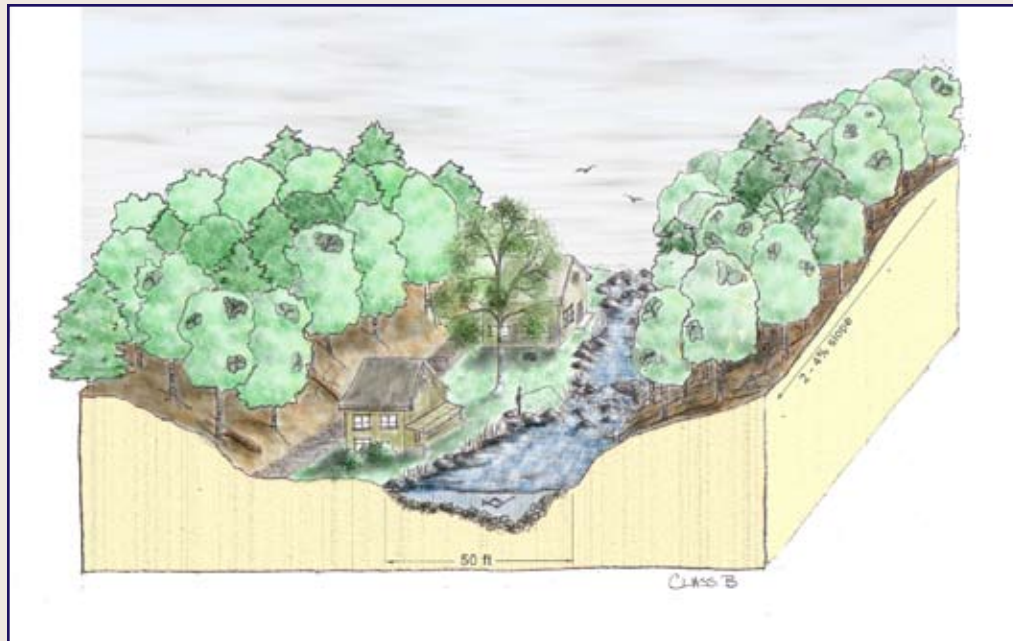
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trastevere, italy



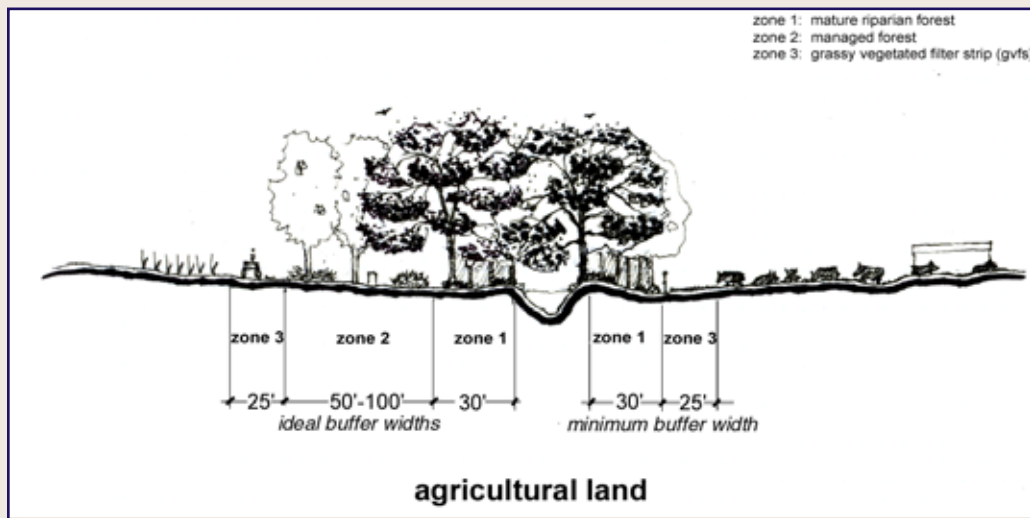
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KETTLE CREEK WATERSHED PLAN

Typical Class “B” stream according to
Rosgen Stream Profiling.

Rendering: Pencil on vellum; color added
in Photoshop



SPRING CREEK RIVERS CONSERVATION PLAN (Graduate / Faculty Project)

* illustration of zoning
recommendations developed to
minimize development, agricultural
and silvicultural impacts in riparian
areas along Spring Creek. GIS mapping
was also used in this analysis.

spring creek



Senior Housing Development - State College, PA

Rendering: Pastel & pencil on blue print

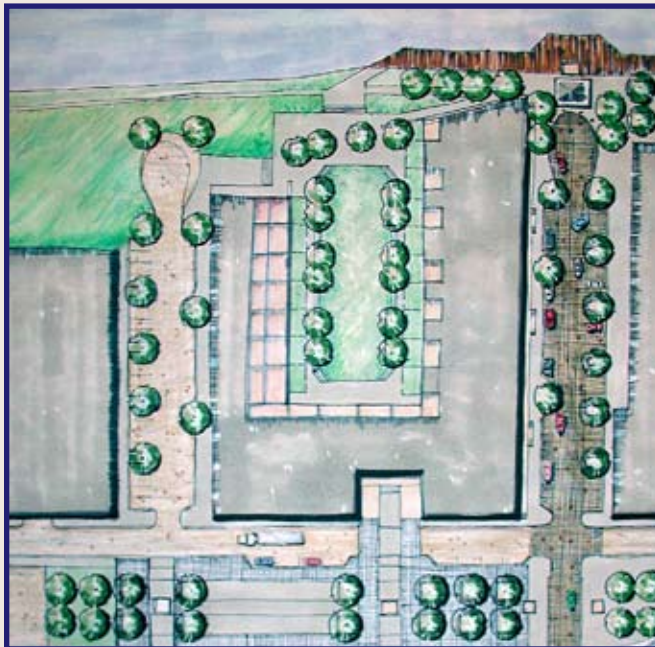
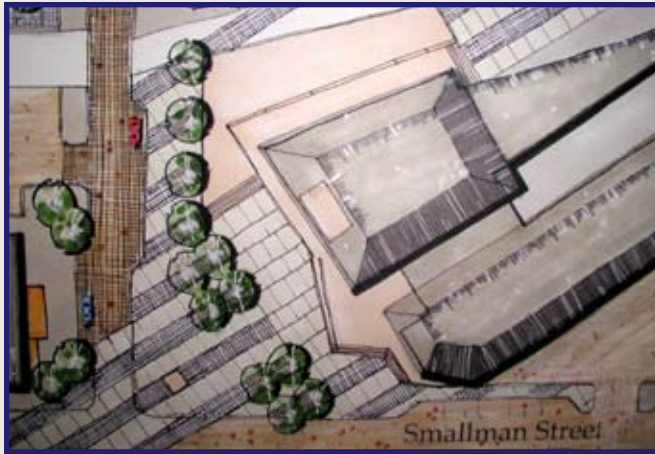
community design

Bald Eagle State Park, Pennsylvania

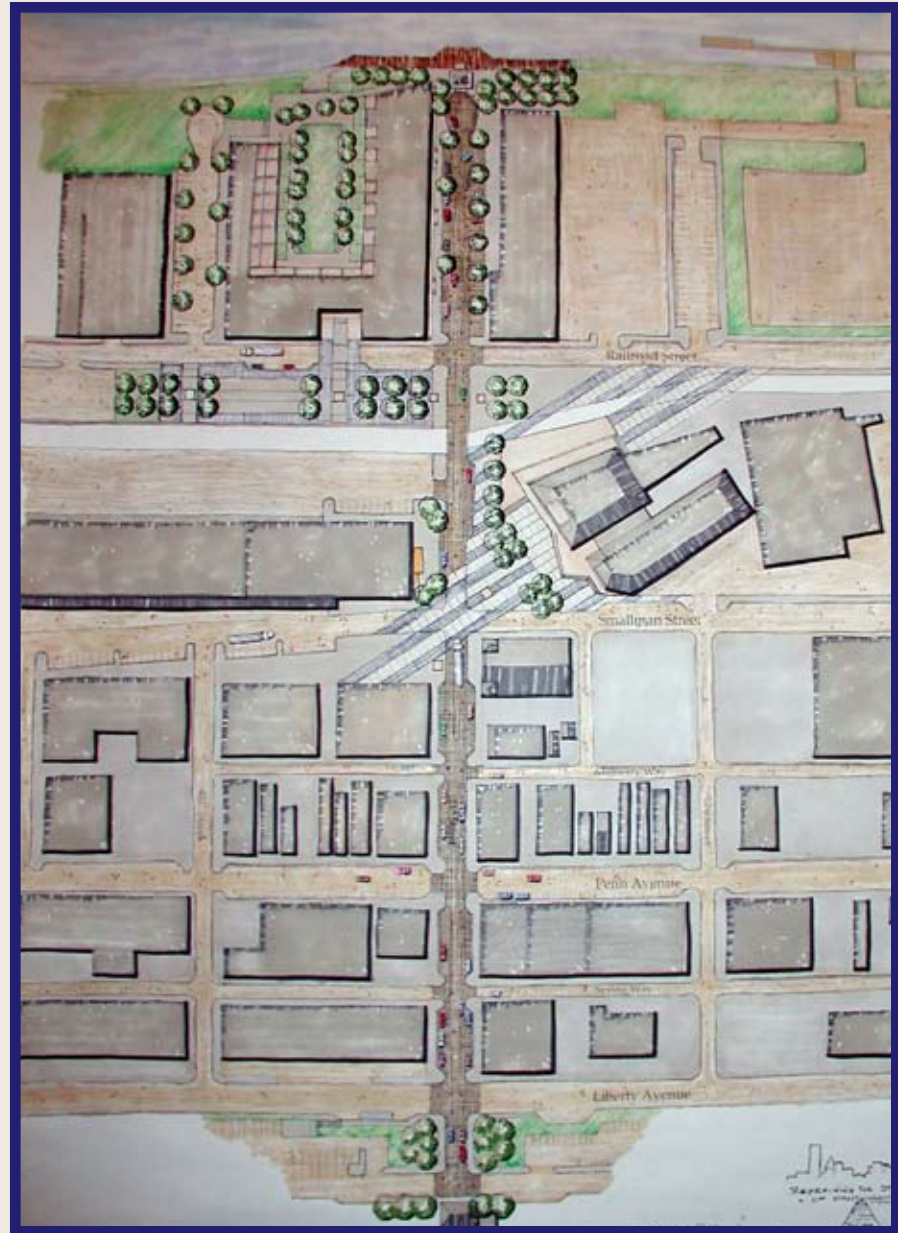
Rendering: Pastel, Pencil & acrylic paint on sepia

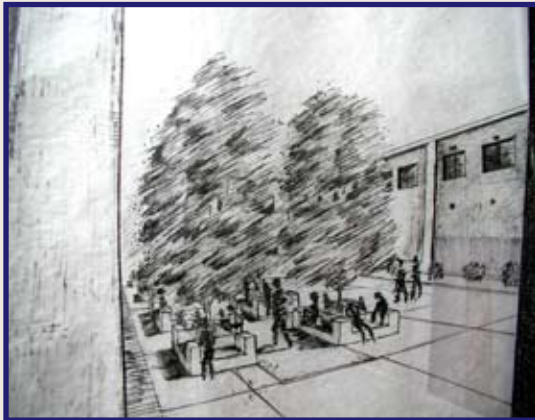
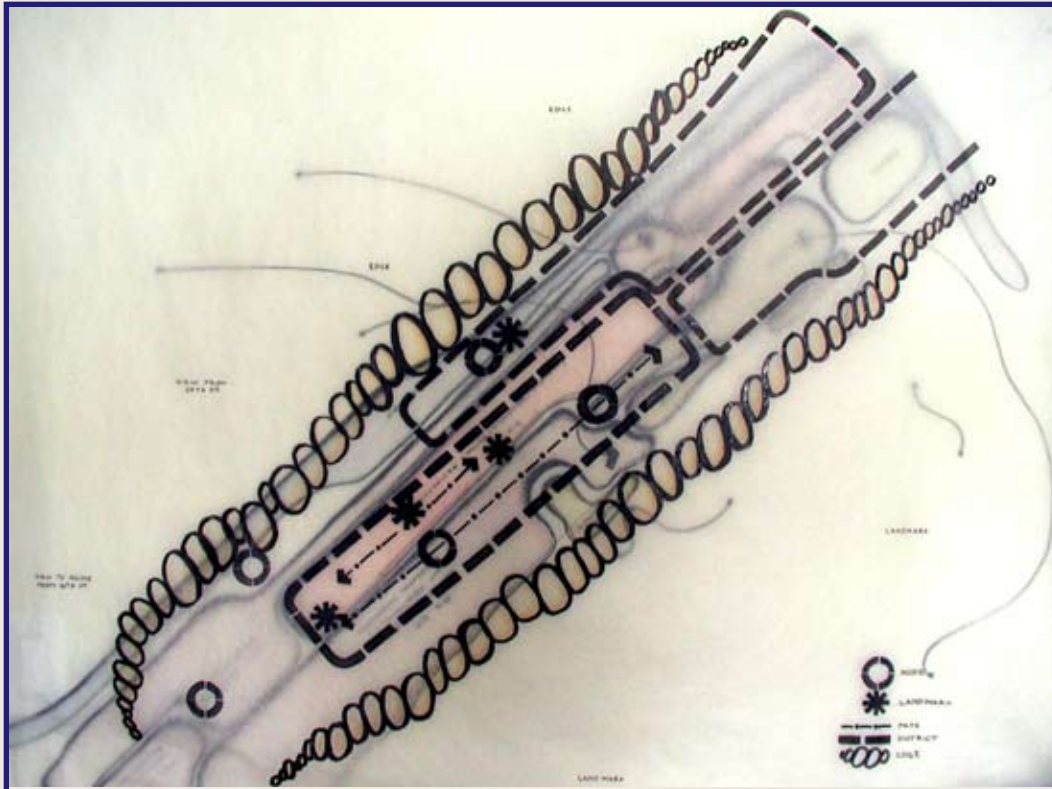


bald eagle state park



Pittsburgh Strip District Revitalization





Analysis boards from the Bowers Studio
- an interdisciplinary effort between
Architecture, Landscape Architecture
and Architectural Engineering.

urban design: pittsburgh, pa

