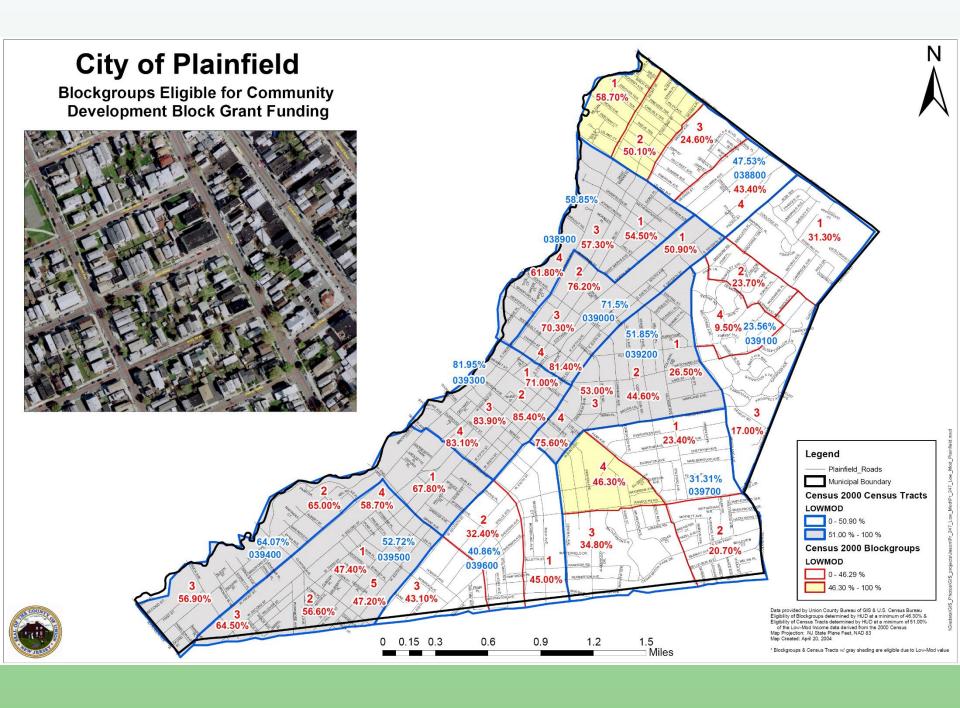
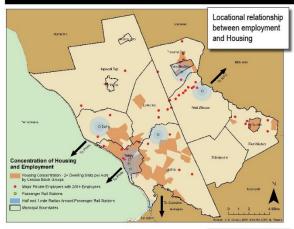
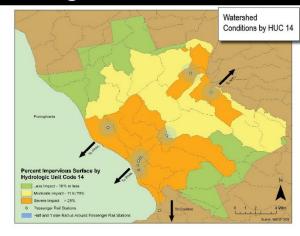
# 21<sup>st</sup> Annual Mapping Contest Maps

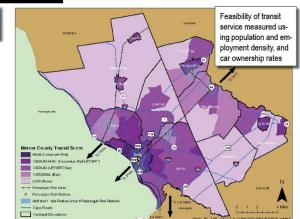
### **Analytical Presentation**

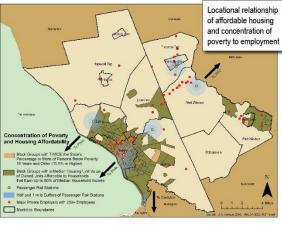


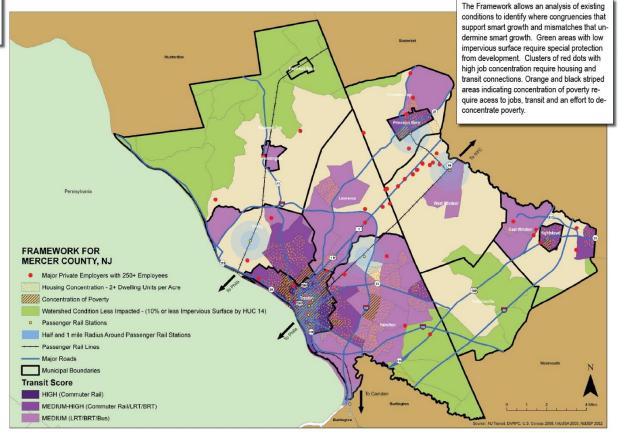
### Data Framework for Growth Management - Mercer County, NJ



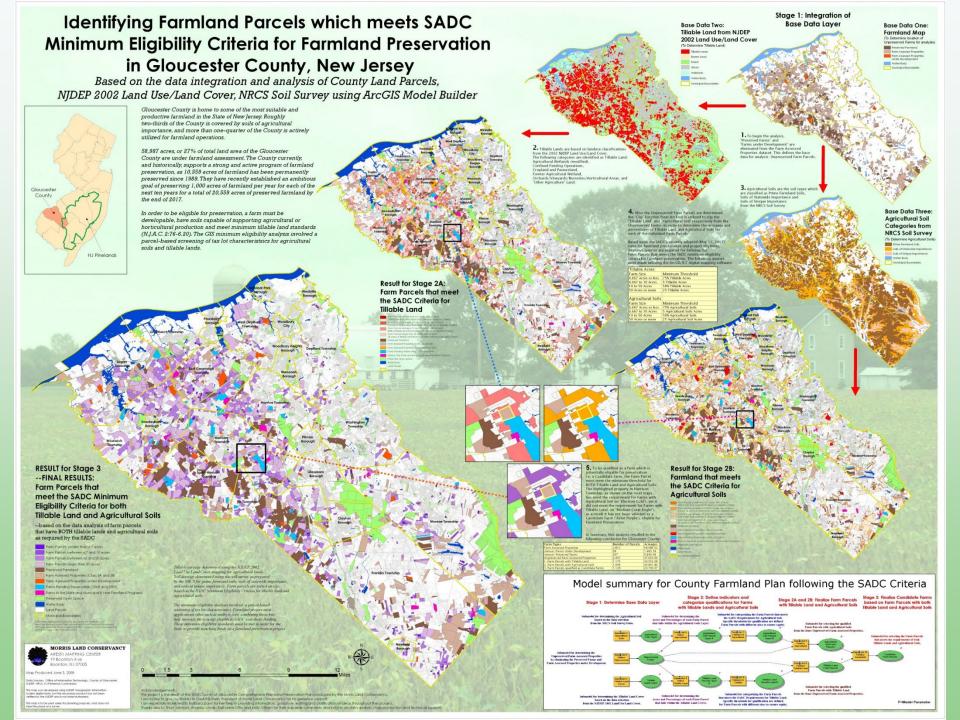














Depiction of Select Environmentally Sensitive Shellfish Classification Growing Areas And Sediment Contamination In Effort to Educate

The Public Of Our Critical Coastal Resources. Barnegat Bay, Ocean County, New Jersey.



Ocean Quahoo (Arctica islandica)

### I don't want to drown in contaminated sediment!!!



Wampum shell Northern Quahog Hard Shell Clam



Blue Mussel (Mytilus edulis)

(Spisula





Clam



Barnegat Bay







Sediment Contamination

There are no absolute chemical concentrations that correspond to sediment toxicity, but Effects Range Low (ERL) and Effects Range Medium (ERM) values are used as guidelines. The ERM is the concentration of a contaminant that resulted in adverse biological effects in 50% of literature studies evaluated. A more protective indicator of contaminant concentrations is the ERL criterion, which is the concentration of a contaminant above which ecological effects are observed about 10% of the time.

The pie graph shows the proportion of the Barnegat Estuary that is Good (green), Fair (yellow), Poor (red) or Missing data (blue) for sediment contaminants. The small symbols on the map show the rating at a particular sampling location



### Sediment Quality Index

The pie graph shows the proportion of Barnegat Estuary that is Good (green), Fair (yellow), Poor (red) or Missing data (blue) The small symbols on the map show the rating at a particular sampling location.

Sediment quality is assessed by evaluating the results of three different factors that relate to sediment quality

1) Sediment Toxicity 3) Sediment Total Organic Carbon



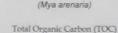












Sediments can be made toxic in areas where there is considerable deposition of organic matter. This is assessed by measuring TOC.

The pie graph shows the proportion of the Barnegat Estuary that is Good (green) Fair (yellow), Poor (red) or Missing data (blue)

The small symbols on the map show the rating at a particular sampling location.



### Sediment Toxicity

Sediment toxicity is measured by a standard direct test of toxicity that has been applied at thousands of sites to measure the survival of amphipods exposed to sediments for ten days under laboratory conditions. Amphipods are commonly found shrimp-like benthic crustaceans. As in all tests of toxicity, survival is measured relative to that of amphipods exposed to reference sediment.

The pie graph shows the proportion of the New Jersey / New York Harbor Estuary The small symbols on the map show the rating at a particular sampling location.



Eastern Oyster Eastern Podmussel (Crassostrea virginica) (Ligumia nasuta)

Tidewater Mucket (Leptodea ochracea)



Joseph Stefanoni III and Gene P. Fowler. New Jersey Dept. of Environmental Protection Trenton, NJ

Prepared By

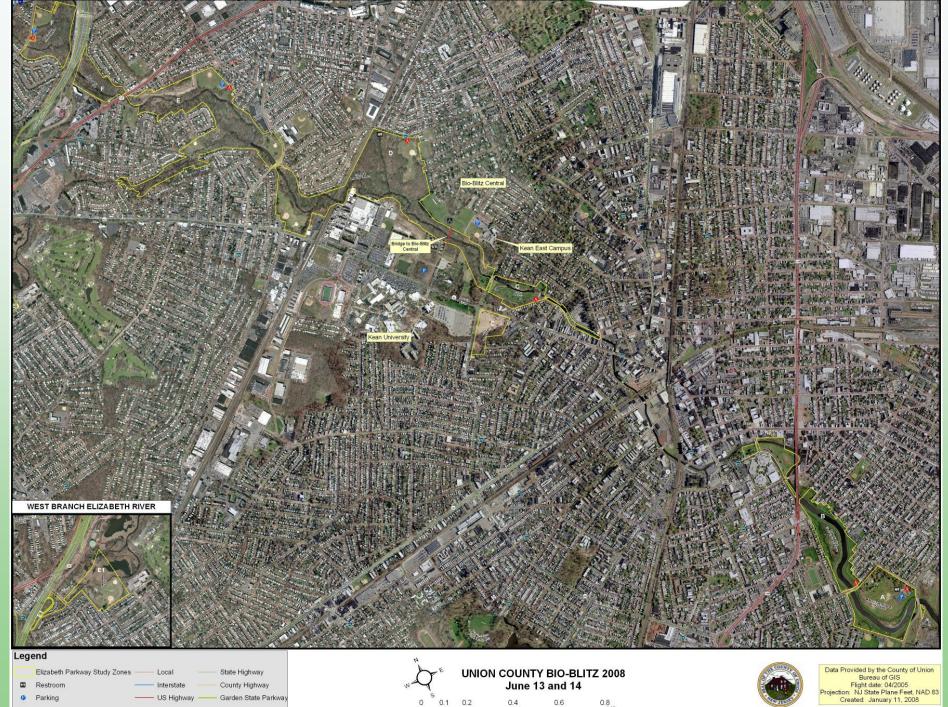


(Lampsilis cariosa)



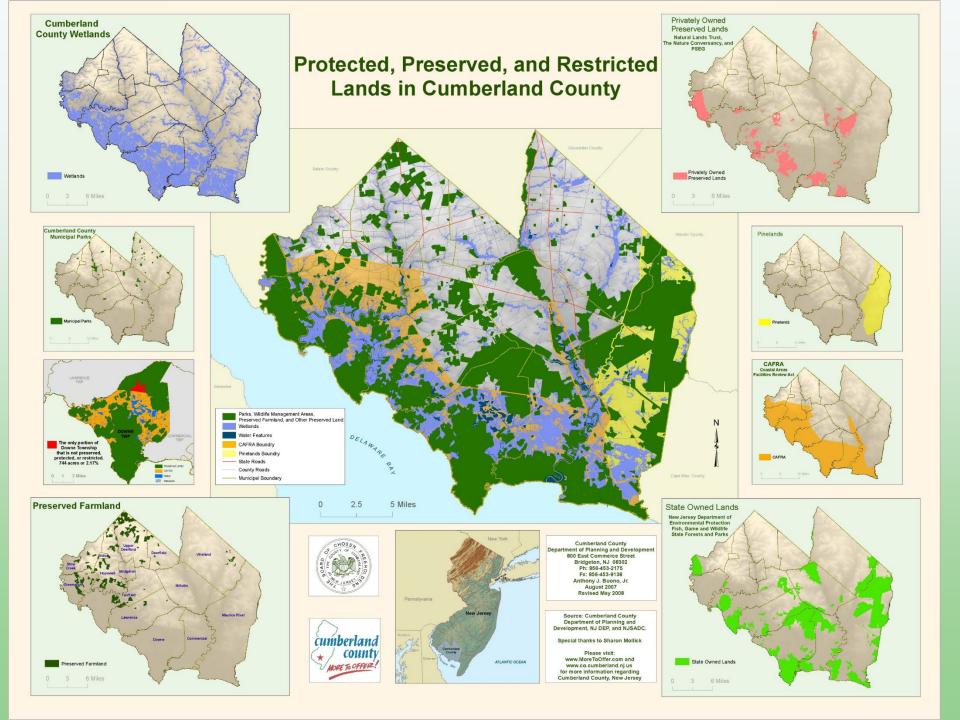
Yellow Lampmussel Yellow Lampmussel (Lampsilis cariosa)





Access Point







### Spatial Distribution Of **BLACK BEAR Damage In Corn**

Black bear (Ursus americanus) populations have been steadily increasing in New Jersey since the 1980's. Current research estimates the bear population at more than 3,000 bears in the prime bear region of northwestern New Jersey. This region is also home to a great deal of rural and agricultural land. Agricultural producers have reported an increase in bear sightings and subsequent crop damage in recent years. Although necdotal evidence suggests that damage to agricultural crops has increased, limited studies have been conducted to quantify bear damage in New Jersey agricultural crops or to determine where damage is most ikely to occur in a field. A research trial was initiated during the 2007 growing season to quantify bear damage and to determine the spatial distribution of bear damage in com.



Black Bear Ursus americanus



An experiment was conducted during the 2007 growing season to evaluate the spatial distribution of bear damage to agricultural crops in Sussex County, New Jersey. Spatial analysis using Global Positioning Systems GPS was conducted in corn (Zea mays). Corn was selected in response to a producer survey conducted during the 2006 growing season which reported bear damage to corn as a serious concern for agricultural producers in the region. Fields with a past history of bear damage were selected and assessed prior to harvest. Damage was quantified by evaluators walking through selected fields and locating the characteristic bear damage (figure 1).



Figure 1. Typical Bear Damage in Corn.



Individual "bear rolls" were measured using a Trimble ProXR, submeter GPS unit. The perimeter of each roll was walked with one point being geo-referenced per second. Resulting polygons were mapped using ESRI ArcView 9.2. The spatial join feature was utilized to calculate the distance from the center of each bear damage polygon to the edge of the closest land characterized as forested (NJDEP Land Use/Land Cover data set, 2002). Means were subjected to analysis of variance and means separated using Duncan's Multiple Range test (SAS, 2007)

 $\chi_{0}$ 



18 fields were scouted totaling 124 acres. More than 600 individual bear damage polygons were created. Damage was variable ranging from less than 1% of the total field area to nearly 8% with an average loss of 2.24%. Crop loss was not determined since fields were evaluated as much as six weeks before the crop was harvested in certain situations. Damaged areas would likely grow the longer the crop remained in the field (figure 2).



Figure 2. Damaged Area Over Time

Ď<del>ecesses contraction de la co</del>

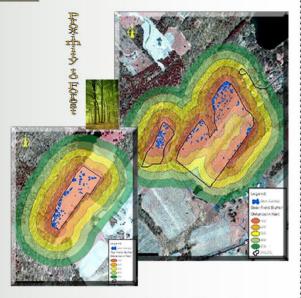


Figure 3. Spatial Distribution of Bear Damage

Numerical differences were observed in the linear distance from individual rolls to the forested areas with approximately 80% of the damage occurring between 0 and 200 feet (P=.0003) (figure 3).



### PROJECT TEAM

David Kunz, GISP (SCOGISM) Steven Komar (Rutgers Cooperative Extension) Tamah Conover (SCOGISM) Sarah Weinrich (SCOGISM)

R. C. Mickel (Rutgers Cooperative Extension)

### Mosquito Trends From 2007 and The Arrival of Aedes albopictus in

### **Hunterdon County 3**



Kathy Bronish, Gary Donato and Tadhgh Rainey **Hunterdon County Department of Health** Flemington, New Jersey



### Aedes japonicus

The map to the left depicts the maximum number of Aedes japonicus collected in single overnight traps at a given location.

This graphic illustrates how quickly and thoroughly this invasive mosquito species has infiltrated Hunterdon County in less than a decade. Although Culex spp are the most abundantly collected mosquitoes in our gravid traps, Ae. japonicus adults readily enter these traps. Aedes japonicus adults were first collected in the year 2000, at which point it was unusual to collect more than just a few specimens per trap. In 2007 greater than 20 specimens per trap were collected routinely, and in one instance 71 Ae. japonicus were collected in a single trap.

### Culiseta inornata

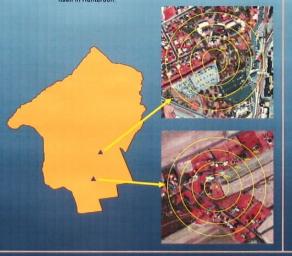
The map to the right shows collection locations of Cs. inormata in 2007. Although not a rare mosquito in New Jersey, prior to 2007 Cs. inomata adults were never collected in





### Aedes albopictus

The map below documents our program's first Ae. albopictus collections. Only two adult specimens were collected in 2007. Both appeared in gravid traps. The first was collected on July 3rd and the second on October 5th. To this day we have had no biting complaints from the public. We suspect the Asian tiger mosquito is just taking hold within our jurisdiction. Concentric rings from the yellow center indicate 50m radii from the point of collection. As part of our surveillance goals for 2008, we intend to conduct surveillance from the point of the initial collections. Our goal is to more thoroughly indentify the extent which this mosquito to has established itself in Hunterdon.



### Total # Am sticticus Co At Each Location 0 3-6 @ 7-23

Number of Ae. sticticus Collected per Month

### Aedes sticticus

We had never experienced an As. sticticus problem in the eight-year history of our program until 2007. Although adults would commonly appear in CO2- baited traps in the past, numbers were markedly higher in 2007 and were combined with numerous resident complaints. Problematic locations are noted on the map to the left. Most Ae. sticticus production was caused by rivers that overflowed their banks because of early season flooding. These included areas of the Musconetcong, Delaware, South Branch of the Raritan and Neshanic Rivers. Aedes sticticus complaints were long- lasting compared to most other species in our area.



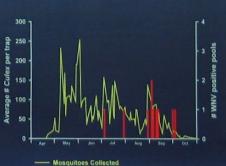


### Culex species And West Nile Virus

The map on the left shows the distribution of Culex mosquito pools that tested positive for West Nile Virus (WNV) in 2007. Since the first appearance of WNV in Hunterdon back in 2000, virus activity has been predominantly in the southern half of the county. The year 2007 was no exception, with peak activity occurring in the southern township of Delaware.

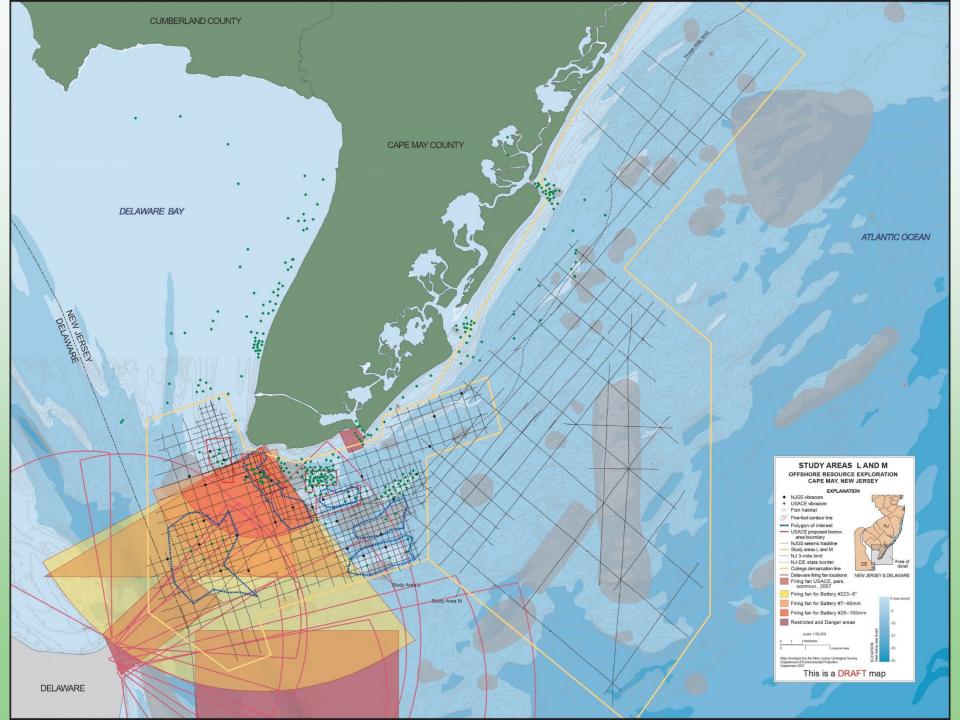
The graph to the right shows mean number of Culex collected per night per trap throughout the 2007 season. Although somewhat lower than in past years, this represents the typical pattern of Culex mosquito activity in Hunterdon County. Culex mosquitoes start appearing in gravid traps by the end of April and peak by the beginning of June. Numbers then steadily decline through the summer months with spurts of activity in July and September. Meanwhile, WNV activity doesn't appear until July and peaks in early September, well after Culex numbers are on the decline. Final WNV positive pools in 2007.

were recorded in early October.





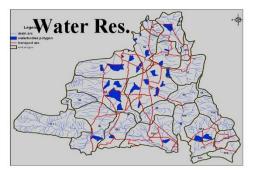
### **Data Integration**

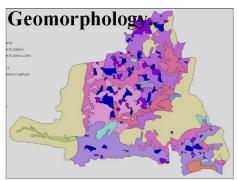


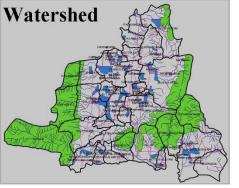
### Recommended Projects for Stormwater Management in The Wreck Pond Brook Watershed

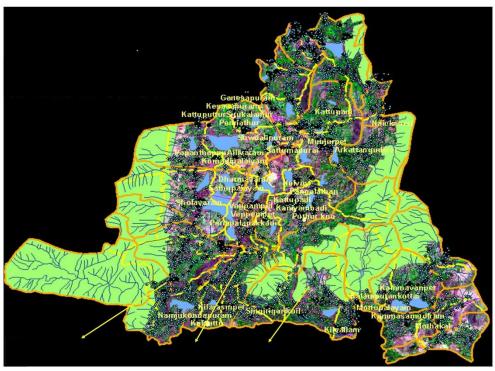


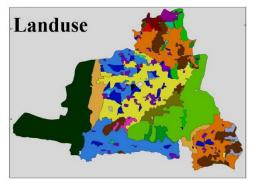
### Natural Resources Integrated for Better Sanitation & Water Management – A GIS Solution

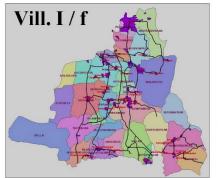


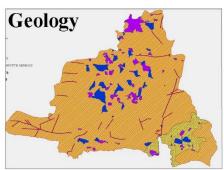




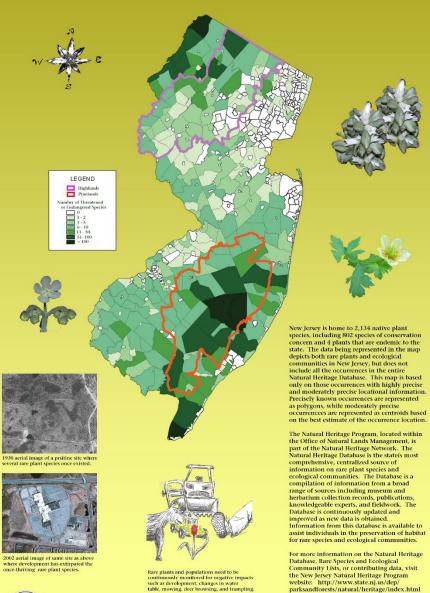








### RARE PLANT SPECIES OF NEW JERSEY





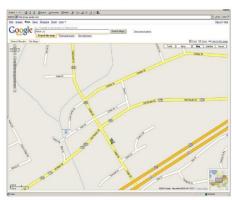
### Instructional Presentation



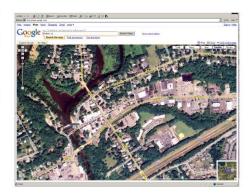
### Am I In A Flood Zone?



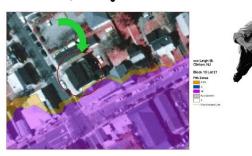
Hmmmmm



OK I see it but no flood zone



Whew, I'm just outside the flood zone!





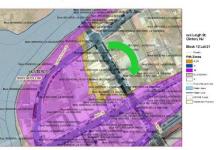
But, what about my neighbors!

I see the flood zone Where is the house?





Ahh, there it is!







Tan samedara hara

Ah, GIS
I'm right here in Clinton

XXX Leigh Gt.
Clinton, NJ

Floris

FM Zeras

1-2-x

1-2-x

Floris frame Size

Floris frame Size

Water (MR

1-17505 Floris



Spatial distribution of suicides in the block (single commonest cause of death in the block - 91 in a year)

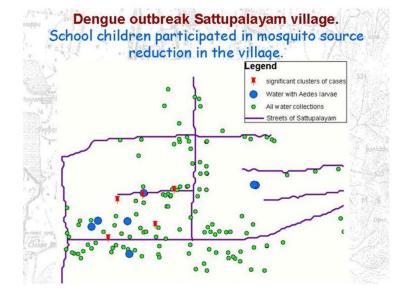
AGE GROUPS	INCIDENCE/ 100,000					
15 TO 25 YRS	100.2					
26 TO 40 YRS	97.1					
41 TO 59 YRS	73.5					
60 YRS AND ABOVE	173.3					
Overall	78.3					





### Interventions

- •Day care for the elderly with community participation
- •Community Mental Health programme

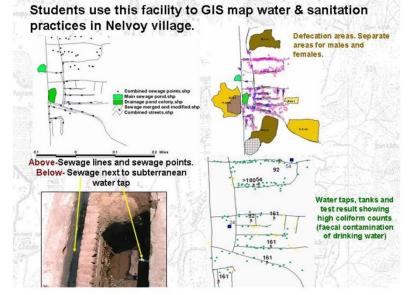


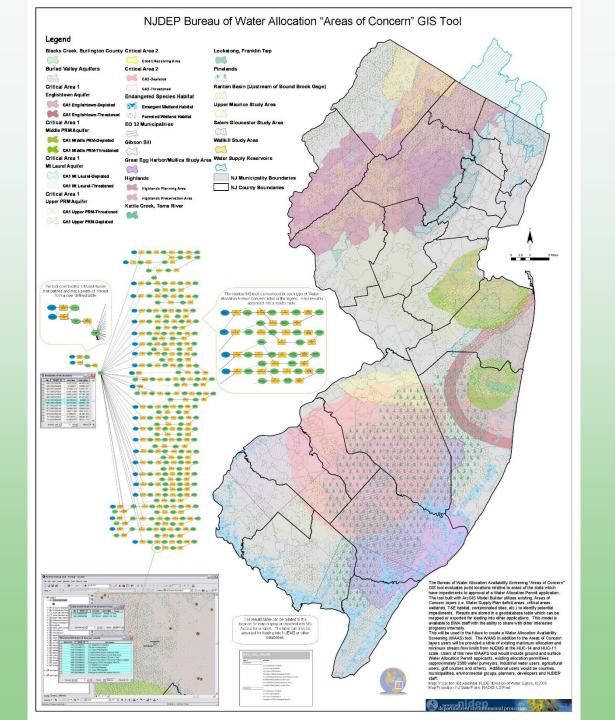
## Examples of GIS used in Health Interventions, Teaching and Policy Making

Cholera outbreak & intervention: GIS maps supplement pictures.

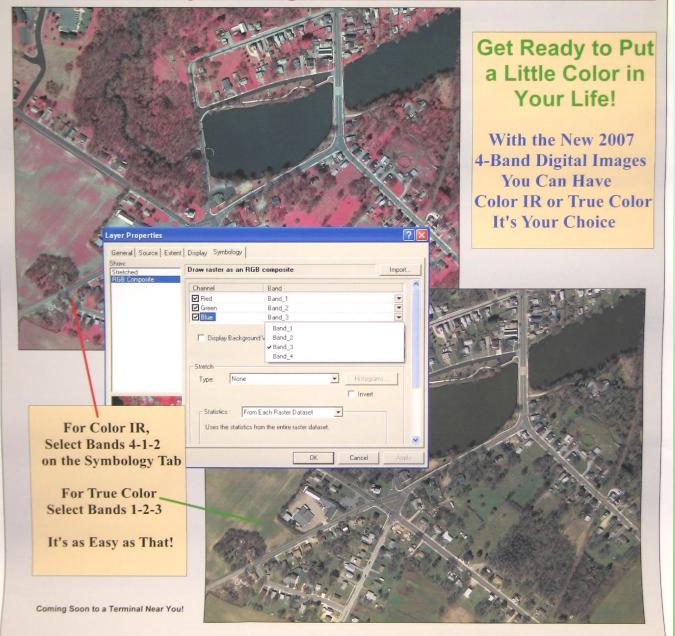
Used for community education (personal hygiene, safe sanitary practices).



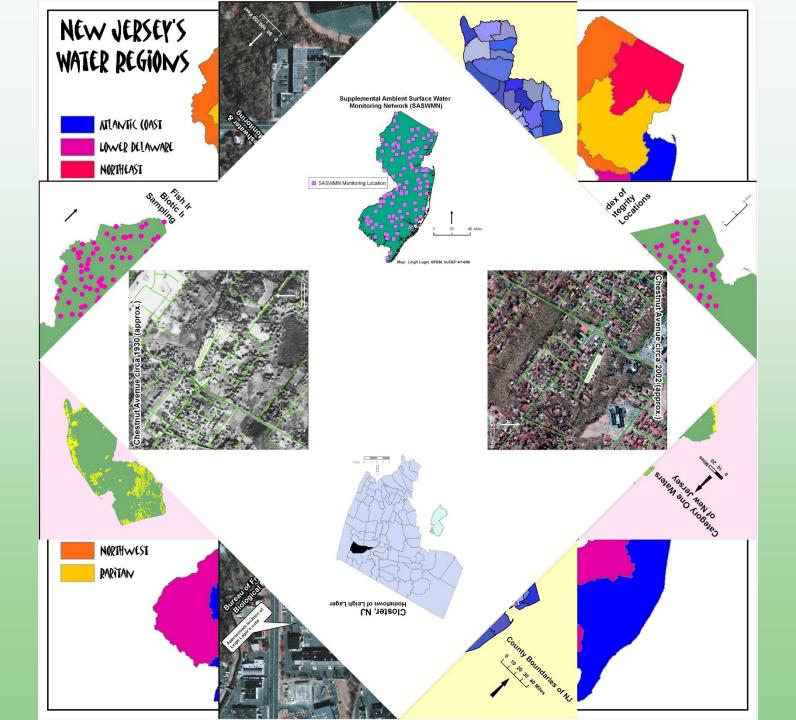




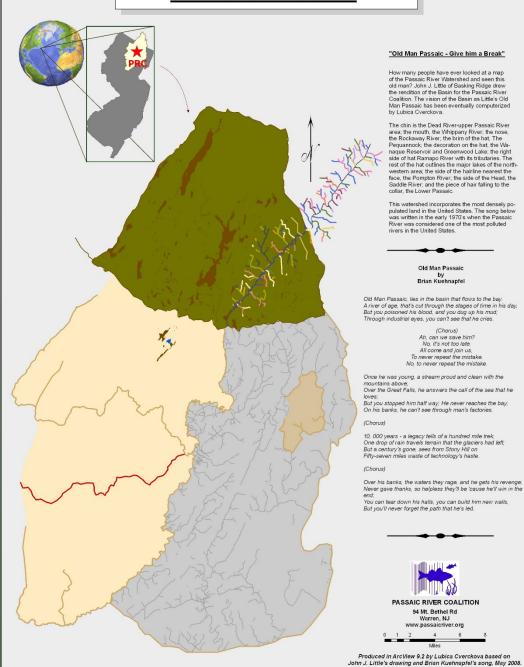
### Do You Feel Like You're Always Looking at New Jersey Through Rose-colored Glasses?



### **Most Unique**



### **OLD MAN 'PASSAIC'**





### Bicycle and Pedestrian Map

### Mapa para Ciclistas y

### **Peatones**

### West Windsor, NJ

This map was funded with the support of the West Windsor Bicycle and Pedestrian Alliance (WWBPA), the West Windsor BikeFest (BikeFest), the Greater Mercer Transportation Management Association (GMTMA) and by the local bike shops listed below.

The map and the information contained herein was prepared with input from Mercer County, NJDOT, West Windsor Township and the support of WWBPA volunteers.

For more info about the sponsors visit:

WWBPA www.princetononline.org/wwbpa GMTMA www.gmtma.org BikeFest www.westwindsorbikefest.com

This is the first print edition of this map. An online version is available on our website. They will continue to evolve, but only with your input. Please email your suggested changes to the WWBPA at WWBikePed@



Bike Lane/Camino para bicicletas

signated travel lane for cyclists that is striped and signed accordingly.

Bikeable/Para andar en bicicleta

A road in which the combination of general traffic volume/speed and physical road conditions is suitable for the average cyclist. Una calle que

Paved Multi-use Trails/Camino pavimentado usos múltiples

Designated trail for use by cyclists, pedestrians and other human powered

Offroad Multi-use Trails/Caminos apartados de las carreteras Designated unpaved trail for use by cyclists and pedestrians. Caminos sin

Hiking Trails/Senderos para caminatas

Designated unpaved trail for pedestrians. Caminos sin pavin

Pedestrian Walkway/Paseo para peatones

Paved walkway not alongside a road. Paseo pavimentado no paralelo a una

aved walkway alongside a road. Paseo pavimentado paralelo a una calle.

A road that is unsuitable for cyclists. Camino no apropriado para ciclista

Non-Bikeable/No para andar en bicicleta

Use hand signals...

Look over your shoulder and proceed Use señales de mano...







Keep both hands ready to brake

You may not stop in time if you brake one-handed. Allow extra distance for

stopping in the rain, since brakes are less efficient when wet.

Use las dos manos para frenar Ud. toma el riesgo de no parar si usa sola una mano para frenar. Cuando

Be visible, wear bright clothes

Sea visible, lleve ropa brillante

Intersecciones: Tenga cuidado con los peatones y los coches girando.

A media cuadra: Tenga cuidado con coches saliendo de los caminos de

...when it's too narrow for a bicycle and a vehicle to travel safely side by side within the lane. Move to the left

Use el carril... estrecho para una bicicleta y un coche estar lado a lado. ¡Muévase a la



Ride at least 3 feet from car doors or

Avoid road hazards like grates, gravel and not holes

a la Regla de los Tres Pies

Mantenga 3 pies del bordillo/hombrillo y de las puertas de coches.

expect to see a vehicle.

the curb.

Lock your bike Lock the frame, rear wheel and quick bicycle rack. Do not lock your bike to

No la asegure a árboles u objetos

Keep your bike in good repair Do the ABC Quick-Check:

segurar su bicicleta

Air pressure Brakes

Chain, crank, cassette

Quick releases (seat, wheels) lantenga su bicicleta en buen fun Haga el rápido chequeo (FÁCIL)

You are more visible where drivers

Aire (presión)

Cierre rápido (asiento, ruedas) y cadena

Evite desperdicios, obstáculos y riesgos. Three Options for Turning Left Ustad es más visible donde los conductores

 Make the left turn as a vehicle.

Cycle straight through to the far right corner of the intersection, and: 2) Cross as a pedestrian. or 3) Make a quick 90 degree left turn

and then proceed as a vehicle. Opciones para Girar a la Izquier ) Gire a la izquierda como un vehícu

Siga derecho hasta la esquina derecha de la

3) Haga un giro de 90 grados a la izquierda y

### Follow the Three Foot Rule

Take the lane...

Scan the road ahead Make eye contact.

Crosswalks: Yield to pedestrians ctions: Watch for pedestria and turning cars.

Mid-block: Watch for cars pulling out of driveways, parking lots/space

éle un vistazo a la calle

Encrucijadas/Paso de peatones: Ceda el

Use the correct size bike Use la bicicleta de tamaño adecuad





### **Local Bike Shops** Tiendas de Bicicletas

The Bicycle Rack 683 State Hwy No 33 (Airport Rd. and Mercer St.) Hightstown, NJ 08520 609-448-2928

www.thebicyclerack.net Halter's Cycles 4095 Route One South Monmouth Junction, NJ 08852 732-329-9022 www.halterscycles.com

Knapp's Cyclery 1761 Princeton Ave Lawrenceville, NJ 08648 609-393-1199 http://knappscyclery.com

Kopp's Cycle America's Oldest Bike Shop 38 Spring St. Princeton, NJ 08542 609-924-1052 http://koppscycle.net

### NJ Bike Laws

### La Ley sobre Bicicletas

Helmets mandatory under age 17 Anyone under 17 who rides a bike, is a enger or is towed as a passenger must wear a properly fitted helmet.

Cascos son requeridos en menores de

Cualquier persona menor de 17 años que monta una bicicleta, es un pasaiero o es



Obey the law, signs & signals Bicyclist granted all the rights and subject to all the duties of motorists.

Ride as near to the right as practicable



Exceptions: Move left to: 1) turn left. vehicles and 4) when traveling at the

Obedezca la ley y los señales vehículos y están sujetos a cumplin

Mantengase tan cerca de la derecha como le sea factible

1) para girar a la izquierda, 2) para pasar a los vehículos más lentos y 4) cuando viaje a la misma velocidad del





Safety Tips

of cycling deaths.

Siempre lleve un casco

Consejos de Seguridad

Always wear a helmet Head injuries cause 90% of all cycling

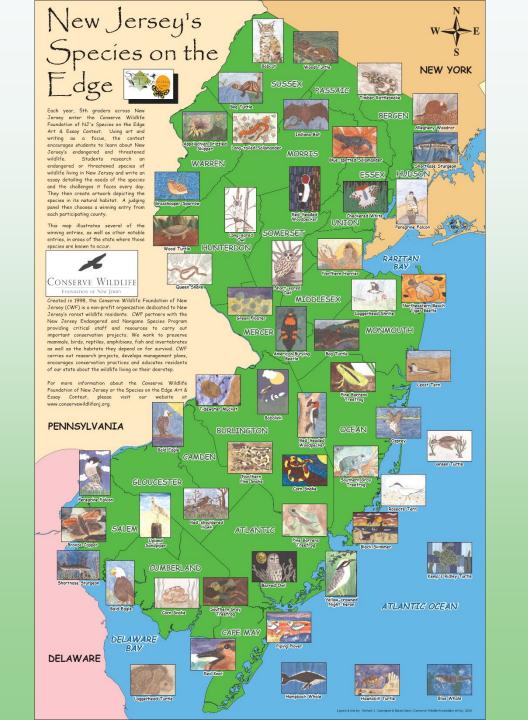
Wearing a helmet can prevent up to 75%

son resultado de trauma en la cabeza.

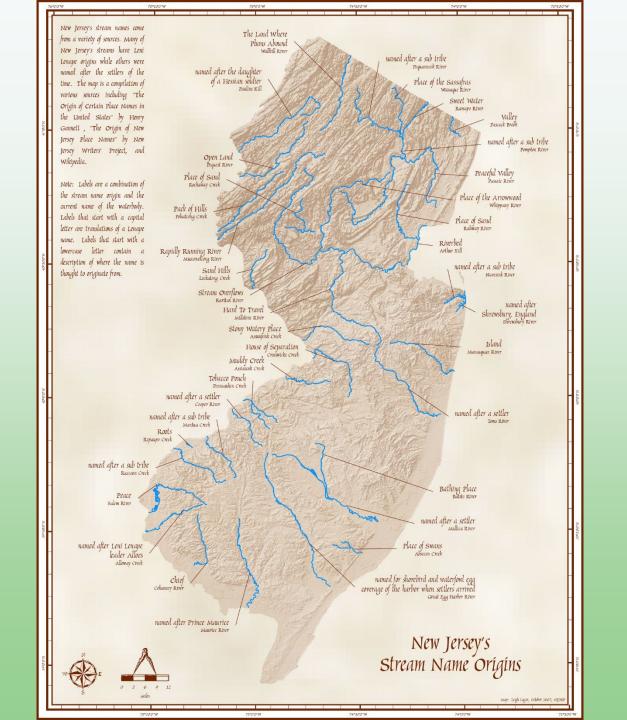


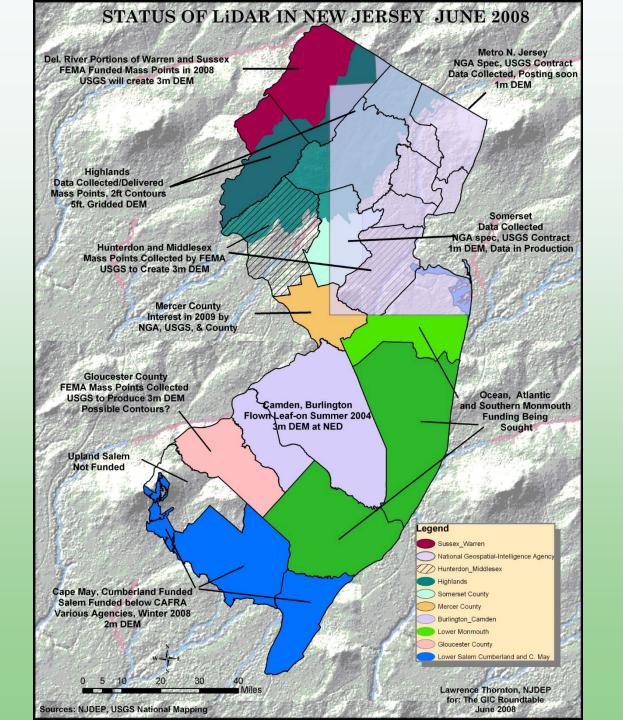
...antes de girar o cambiar de carril Mire sobre su hombro y p





### **Small Format**



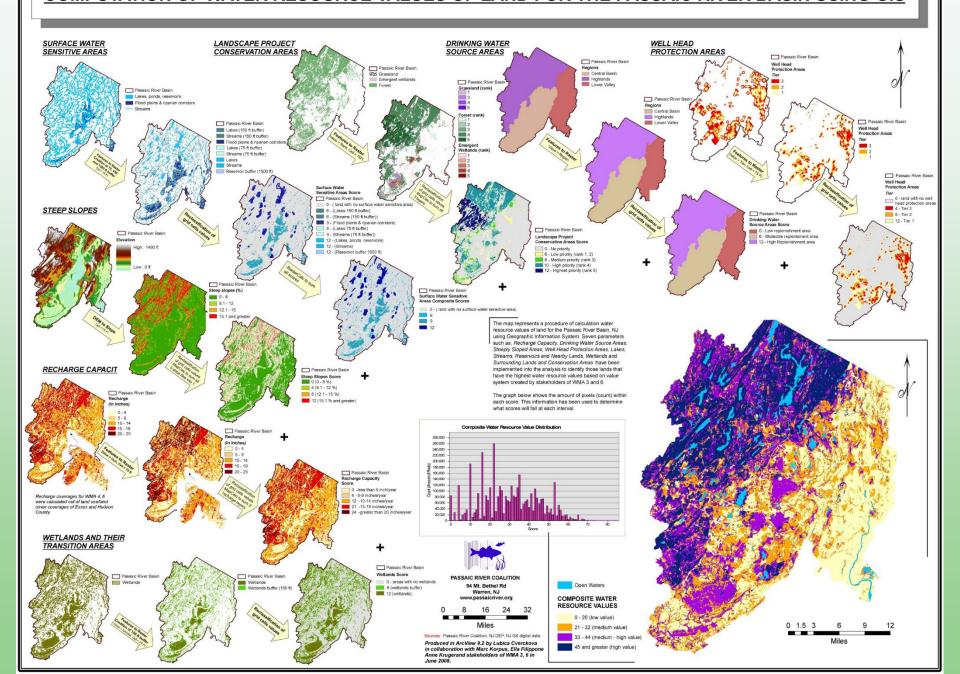


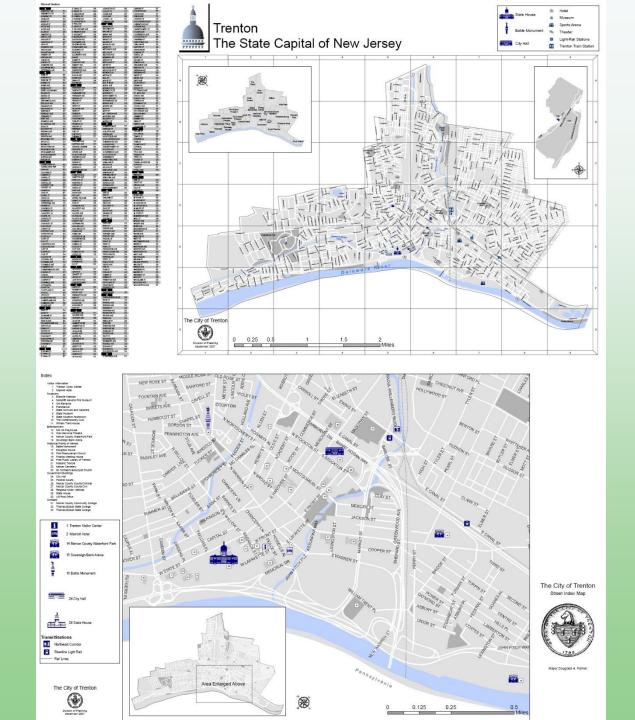




### Software Integration

### COMPUTATION OF WATER RESOURCE VALUES OF LAND FOR THE PASSAIC RIVER BASIN USING GIS





### Open Source GIS Delivery Web Model Supporting data Capture and Collaboration

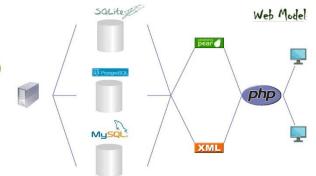
### About the Features

- PHP time stamp generated from server
- SQLite full-text word prominance site search
- RSS feed that channels all user posts
- Beloved breadcrumbumps included
- Javascript expand / contract menu
- Simple sign-up with user agreement
- Encripted authentication with session rolls
- SQLite data relations totally normalized
- 9 Draggable Javascript menu included
- A Editable content capturing user and time
- B AJAX implemented splash screen (php GET)
- C Focused views by hide / show onclick event
- GTS tiles done manually in ArcView 9.0 and with Visual Basic Applications
- Map tiles dynamically loaded by municipality
- Javascript expand / contract grouping
- G Color charts showing group goals (realtime)
- Upload MS Word forms with file validation
- 1 Data entry reduction via CSV file parser
- HTML graphs dynamically generated as

### Other Data Tools (not shown)

- Full-text search SQLite table generator
- Double submit "core / crust" validator
- Totally validated and editable contact book
- XML data loader (works with MS Excel)
- Web forms that generate RTF GIS reports
- Reader flag, edit, and delete tools Lots of acclimades and error messages
- All file uploads are downloadable
- Includes documentation



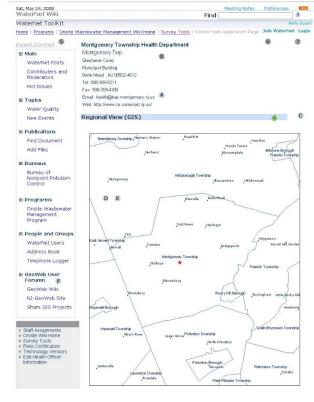


Example illustrating a cost effective way to manage low volume wastewater discharges

-3-

36

11



### Low Volume Wastewater Data

Approximately 120 Health Departments are responsible for permitting

Nearly 120 different data management systems are in place monitoring

NJDEP develops design standards for septic systems, relying on feedback

Septic management involves cooperation among inspectors, pumpers engineers, real estate agents, land surveyors and government officials

Each septic system in New Jersey will treat hundreds to thousands of gallons of wastewater per day

Health departments and NJDEP are responsible for investigating and tracking water quality complaints

GIS Web systems are suited for decentralized data management and can assist well in coordination and high level data validation

### This Application

HTML, CSS. Javaseript. PHP. XML. PEAR, SQLite 2.6, Tango, AJAX, VBA. AreObjects, Text\_Wiki, Apache, IIS with IE and firefox.

ESRI ArcView 9.x . TextPad, Dreamweaver, Adobe Photoshop, MS Word Documents. MS Excel Documents, CSV text.

### This Application's Future



WMS Services with Open Layers ESRI's new ArcGIS Flex KML and better AJAX support

### eche "-h2-Decale's Poster-/h2-": echo "-13-NJDEP's 21st Arreal Mapping Contest-/13-": erto date ("D. F I. Y"); Sprize - Best Software Integration ;

### 2005 Septic Permits Total issued: 60 Renair

Upload Report For Montgomery Twp.

There are no graphs or charts available for 2004.

Report Status

1 Graphs and Charts

Load Data

13.33% 60% Alterations Malfunctions 18.33% Alterations Expansions 6.67% Technology 1.67%

Butterflies of New Jersey Appalachian Trail Canal Rd raced Sp Sussex Passaic/ Most common NJ Butterflies Legend -Limestone Ridge Pictures are not to scale) **Paliroads** Crock Lake Bergen - Roads (Tale Attes) Warren Scheman Morris NJ Butterfly Viewing Sites White Cedar woodands Essex, Grasslands - Critical Habitat 7Hudson Limestone Ridge Preserve-NLT RANK ~Union Blairstown Twp., Warren Co. Suitable (1) Hunterdon Priority Species (2) State Threatened (3) Sandy Hook Middle Somerset State Endangered (4): Federal T and E (5) Bedrock Outcrop Areas Poncy " **GEOABB** Mercer Extensive Outcrapping Monmouth Some Outpropping State Preserved Lands Mikwood Lakeburst Bogs Burlington Ocean & Camden  $Glou_{Cester}$ Legend -Whitesbog Area Roads (Tele Afast) NJ Butterfly Viewing State Salem White Cedar woodlands Grasslands - Critical Habitat Atlantic RANK Whitesbog Historic Farm, Burlington & Ocean Co's: Sultable (1) Cumberland Priority Species (2) State Threatened (3) State Endangered (4) Cape Federal T and E (5) Bedrock Outcrop Areas May Higher Beach Mimicry: Expensive Outcropping Pipevine Swallowtails and Some Outprosping Cape May State Preserved Lands Monarchs are noxious to birds; to avoid being eaten, other species look similar to these Miles noxious species. 12.5 25 Presented by Henry J. Kindervatter with special thanks Whitesbog Historic Farm: to Dr. James Springer (for technical guidance) and Manchester, Ocean; Plumstead & Pemberton, Burlington Sharon Wander (Pipevine Swallowtail picture)



### Identify Safe Bicycling Routes with Public Participation GIS

BikePool: local cyclists self-identify route, schedule and personal details to share commute



Bike Racks: community locates, photographs and documents bike racks



Accidents and Near Misses: cyclists report details, WWBPA reports to authorities



### NJ-GeoWeb

### **NJDEP's Newest Environmental Interactive Mapping Application**

The Bureau of Geographic Information Systems has developed NJ-GeoWeb, a suite of data and feature-rich GIS applications for both Intranet and Internet user communities. The applications are being built using Orion OnPoint software which will enable BGIS to develop and deploy the applications more rapidly, requiring less custom coding. NJ-GeoWeb will use existing map serving technologies and connections to multiple environmental data sources (NJEMS, COMPASS, etc.) to allow the combining of map layers and associated tabular data from multiple map services into a single integrated map. Another major advancement is the ability to integrate NJ-GeoWeb applications with other NJDEP environmental applications and documents that exist on the Web. Applications built for NJ-GeoWeb will gradually replace those applications in the current i-MapNJ suite.

### Layer Manager

Layers grouped into logical classe in Layer Manager allow users to find the data they are after more





### Advanced Tools

The Advanced Tools provide very useful functions and enable basic GIS analysis

Users can select features from an active GIS (ayer using a number of selection tools; by polygon, line, point, circle, or rectangle. The selected set of features are highlighted on the map and displayed to the user in a selection list for the layer. Further, these selections can be saved and later retrived in a future NL-GeoWeb session.

Users can use the Measure tool to display a location's NJ state plane coordinate (point), measure the distance between points (line), measure the distance along a multi-segmented line (multi-segment), and measure the areas and perimeters of irregular polygons, circles, and rectangles.

Users can enter NJ state plane coordinates and zoom to the location at a specific map scale.







### Example of the NJEMS Sites in an Area of Interest search. In this instance the search is for active NJEMS Sites having a Right-To-Know program interest in Haddon Heights Boro.

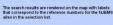


Searches

By clicking on the Search tab, users can execute a number of searches that will get them to an area of interest or select specific layer features for further analysis. Each map tab or profile has the area of interest searches (address, county, municipality, place. 2/IP code, watershed management area, and watershed sub-watershed along with specific searches designed for the targeted audience of the profile.

NJ-GeoWeb

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### Analysis - Proximity to C1 Waters

There are several ways to get to a location of interest. In this instance it is being done by entering a coordinate. It could also be done using any of the predefined searches found under the Search tab.



Once zoomed to the location, the user can turn on any relevant layers to their study. In this case the Category 1 Waters have been turned on. These streams have been given this designation du to their high quality.





### Using the Buffer selections tool under Advanced Tools, the user can create 300 foot buffer areas around the Category 1 Waters and select and highlight the polygons from the Land Use 2002 lays that fall within the buffered regions.



### Integration with External Web Application - DEP Data Miner

In this example, multiple NJEMS Sites are selected using the Selection tool (by rectangle). These selected sites can be passed to a customized report in DEP Data Miner to enable users to view additional environmental data that reside in the NJEMS database for these sites.



### Reports - DEP Data Miner - Multi-Media Release Report

Here is a portion of the Matiliation Present Report from CEP Data Minn. The NASMS Sizes selected in NA G-RWK over passed to this report via the report host launched from the Report buttlen or the selections size. The relieses numbers are not coming from the GS datables. But from NASMS and RASTAL in section of the report summarizes the releases by medium of various pollutants in pounds per year for each of the size that were selected in NASMS with the reliesance to more than one medium. The releases data in form 2002. Any numbers displayed in red indicate an accelerance of permit thresholds.



### In this section of the Multi-Media Release Report, all of the release numbers are aggregated from all of the NJEMS Sites that were selected in NJ-GeoWeb that are multi-media release sites. In this

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