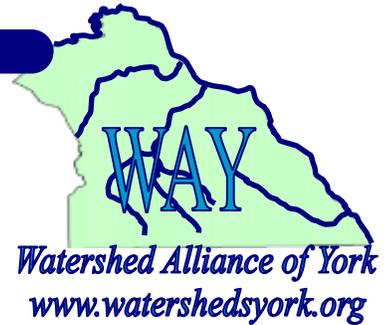


WAY E-NEWS

*A coalition of stakeholders committed to being innovative leaders
encouraging watershed-based planning, restoration and protection*



August 2, 2010

A PUBLIC-PRIVATE PARTNERSHIP

Volume 10, Issue 16

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- New Webcast "Re-Visioning Landscapes with LID: The Houston Experience" – Aug 11
- Permeable Pavement Design, Installation, and Maintenance
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- 2nd Annual Downtown Hoedown Farm & Natural Lands Trust of York County – Sep 30
- BRUNNER ISLAND Summer 2010 Environmental Programs
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- How to Keep Flooding "Out of Your Back Yard"
- "Putting Smart Growth to Work in Rural Communities" report now available
- Merged bedrock and groundwater data now available from Topo/Geo
- EPA Seeks Small Business Input on Proposed Stormwater Rule
- EPA Announces Public Information Meetings for the Proposed Revised Total Coliform Rule
- New Online Map Shows Network of Protection for North America's Marine Ecosystems
- First Detailed National Map of Land Cover and Vegetation in U.S.
- Highlands Regional Study: Connecticut and Pennsylvania 2010 Update
- Ecoregions of the U.S.
- Environmental Synopsis Features Green Roof Technology
- Sustainable Design and Green Building Toolkit for Local Governments

WATERSHED CONTACTS

COUNTY PLANNING – (717) 771-9870

CONSERVATION – (717) 840-7430

- Agricultural conservation planning
- Environmentally sensitive dirt & gravel road maintenance
- Environmental stewardship and watershed protection
- Erosion & sediment control
- Stormwater complaints

24-HR EMERGENCIES – (877) 333-1904

- Chemical and oil spills from transport trucks, trains and industrial facilities

ENVIRONMENTAL – DEP-SCRO

- General Info 717-705-4700
- Director SCRO 717-705-4704
- Air Quality 717-705-4702
- Energy & Technology 717-705-4703
- Environmental Cleanup 717-705-4705
- Mining (800) 541-2050
- Radiation Protection 717-705-4704
- Waste Management 717-705-4706
- Water Supply Management 717-705-4708
- Water Management 717-705-4707
- Watershed Management 717-705-4704

FISHERIES – (800) 541-2050

- Wildlife (fish, reptiles, amphibians) nuisance problems or to report violations

GAME & WILDLIFE – (888) 742-8001

- Wildlife (mammals or birds) to report violations or nuisance problems

ILLEGAL DUMPING – (877) 772-3673

- Illegal dumping on state forest and park lands

MUNICIPAL (Phonebook Blue Pages)

- Air pollution by burning household garbage
- Dumping waste in surface waters
- Floodplain disturbances
- Municipal and residential septic/sewage problems
- Stormwater management

NOXIOUS PLANTS – (717) 772-5209

RECYCLING – (717) 845-1066

WETLANDS – (717) 249-2522

Updated 3/18/2010

WATERSHED ALLIANCE NEWS

Ag Land Preservation Board of York County - www.york-county.org

<> For information about farmland preservation in York County contact Patty McCandless at pmccandless@york-county.org or call 717-840-7400.

Carroll Citizens for Sensible Growth - <http://carrollcitizens.com/>

- Sep 30 – Into the Streets – Northern York County Illegal Dump Site Cleanups. Details to be announced.
- <> Contact: Deana Weaver at (717) 432-2211 or admin@carrollcitizens.com

Codorus Creek Improvement Partnership - www.codoruscreek.com

<> Contact: Michael Helfrich, Codorus Creek Improvement Partnership, at 324 W. Market St., York PA 17401. Ph: 717-718-5431. E-mail: info@codoruscreek.com

Codorus Creek Watershed Association - www.codoruscreek.net

- CCWA on Facebook! We are now on Facebook, with over 75 members, and growing each day! If you are a Facebook member, please join us by clicking on the following link below to visit the page <http://www.facebook.com/group.php?gid=118546314839244&ref=ts>
 - Oct 11 – CCWA Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.)
- <> Contact: Jim Leaman at 843-2929

Codorus State Park - www.dcnr.state.pa.gov

Conewago Canoe Club - www.conewagocanooclub.org

- Sep. 2 – Club Meeting – Mount Zion United Church of Christ, 7:00 pm, at Ridgewood Road in Pleasureville
 - Red Lion High School Paddling Instruction Schedule online
- <> Questions or comments e-mail me oc1mike@comcast.net, but remember you catch more flies with honey than vinegar.

Deer Creek Watershed Association - <http://deercreekwatershed.com/>

- NEW! Check out our new website
- <> Contact Lee McDaniel at ldmcdaniel@aol.com.

Farm & Natural Lands Trust of York County - www.farmtrust.org

<> Contact: Sean Kenny at Farm & Natural Lands Trust of York County • 156 North George Street • Suite 300 • York, PA 17401 • Phone (717) 843-4411 • Fax (717) 854-7452
or skenny@farmtrust.org

Friends of Codorus State Park - www.friends-of-codorus.org/

<> For more information contact Becky Miller at 632-6747 or email beckymill1@juno.com or Dave Carbaugh at 637-9875 or email carbaugh3@embarqmail.com

Gifford Pinchot State Park - www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx

- Event calendar <http://www.dcnr.state.pa.us/Calendar/list.asp>
- <> Contact Elizabeth Kepley, Environmental Education Specialist, DCNR Bureau of State Parks/Gifford Pinchot State Park, 2200 Rosstown Road, Lewisberry, PA 17339. Phone: 717-432-5011

Greater Hanover Alliance - pwingert@legacycaps.com

<> Contact: G. Paige Wingert, President, Greater Hanover Alliance, Inc., Hanover, PA 17331. Ph :(717) 630-0892.

Gunpowder Valley Conservancy - www.gunpowderfalls.org

<> TO VOLUNTEER OR REGISTER FOR FREE or for more information contact Peggy Perry, Program Director for Gunpowder Valley Conservancy at 410-668-0118 or email little-owl@msn.com.

Horn Farm Center for Agricultural Education - www.hornfarmcenter.org

Looking for something fun to do later this summer? Why not come out to the Farm? Join us on Saturday, August 7, from 11-5
<> Contact: Horn Farm Center for Agricultural Education, 4945 Horn Road, York, PA 17406. Phone: (717)654-0571. Email: info@hornfarmcenter.org. Web: www.hornfarmcenter.org.

Izaak Walton League York Chapter- www.yorkchapter67iwla.org/

- Calendar of events 2010 - www.yorkchapter67iwla.org/id21.html
 - Club Open Meetings are held the Third Tuesday of each month at 7pm in the Clubhouse.
- <> Contact: York Chapter #67 IWLA, 7131 Ironstone Hill Road, Dallastown, PA 17313. Club Grounds Phone: 717-428-2000
*Leave a message for the Committee Contact or Club Officer you are trying to reach. Committee Contacts & Club Officers are listed on the Club Information Page. If no phone or email address is listed contact club grounds phone number.

Lower Susquehanna Riverkeeper - www.lowersusquehannariverkeeper.org

<> Contact: Michael Helfrich, Lower Susquehanna RIVERKEEPER®, York, PA. Cell phone: 717-779-7915 E-mail: lawsusriver@hotmail.com.

Maryland's Upper West Shore Trib Team - http://www.dnr.state.md.us/bay/tribstrat/upper_west/up_west_shore.html

- Just to confirm that Mon 2nd August 2010 @ 5:30 p.m. we will have a Field Trip to the Kilby Farm in Cecil County to see their new methane digester and learn more about their latest BMPs and their Water Stewardship certification - <http://corporatewaterstewardship.org/about.php> .

Weather and numbers will likely determine specifically where we meet, so please let me know by return email if you plan to attend, and watch the weather!

<> Contact: Mike Bilek, Tributary Team Coordinator, MD DNR, Tawes Office Building, Annapolis, MD 21401. Ph: 410-260-8988. E-mail: mbilek@dnr.state.md.us

Mason-Dixon Trail System, Inc. - <http://www.masondixontrail.org/>

<> Contact: James Hooper at 717/252-3784 or j.e.hooper@ieee.org

Mid-Atlantic Ecological Landscapes Partnership [MAEscapes] - www.maescapes.org

- Work day Weds, Aug 4, starting at 8:00 AM.
 - Jul 30 - MAEscapes Advisory Board meeting at ANNEX, 6:30 pm CANCELLED
- <> Contact: 717-840-7408 or Connie Schmotzer at cxs51@psu.edu

Peach Bottom Concerned Citizens Group Inc. - www.pbccg.com

<> Contact Maria Payan by email pbccg@hotmail.com or mail: Peach Bottom Concerned Citizens Group, P.O. Box 307 Delta, PA 17314. PBCCG, Inc is a nonprofit organization supported solely by volunteers and donations.

Prettyboy Watershed Alliance - www.prettyboywatershed.org

<> Contact: Nancy Shaper at nshaper@ihmi.edu

Sierra Club - Gov. Pinchot Group of PA - <http://pennsylvania.sierraclub.org/pinchot/>

- New 2010 Meeting Location! Monthly meetings will be held the last Tuesday of the each month at 6:30 pm in the Community Room at the Giant at 2300 Linglestown Rd, Harrisburg, PA 17110. All members are welcome!
 - 7/25 - Kayak/Canoe the Susquehanna
- <> Kim Anderson at sgfornyc@aol.com.

Spoutwood Farm CSA - www.spoutwood.com

<> Contact Rob & Lucy Woods at Spoutwood Farm at 717-235-6610 or spoutwood@comcast.net.

Susquehanna Gateway Heritage Area - <http://www.susquehannaheritage.org/>

<> Contact Mark Platts, Susquehanna Heritage Corporation, 1706 Long Level Road, Wrightsville, PA 17368. Office: 717-252-0229. E-mail: info@lyhr.org.

Susquehanna Greenway Partnership - www.susquehannagreenway.org

<> For more information about the Susquehanna Greenway, please contact: The Susquehanna Greenway Partnership, 201 Furnace Road, Lewisburg, PA 17837. Phone: 570-522-7211. Email: greenway@susquehannagreenway.org

Trout Unlimited Codorus Chapter #558 - www.codorustu.org

- Aug 11 - Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Sawmill pavilion (summer)
- <> Contact: Tom Finenze at 840-1372 or tom@codorustu.org. Cancellations due to winter weather will be announced here, and on WSBA Radio, 910 AM.

Trout Unlimited Muddy Creek Chapter #575 - <http://muddycreektu.org/>

- Aug 18 - Chapter Meeting at [Collinsville Fish & Game](#)
- <> Contact: Ron Heuston, President MCTU, 244-1851 or Heuy1955@aol.com

Watershed Alliance of Adams County - <http://www.adamswatersheds.org/>

- The Watershed Alliance of Adams County holds its board meeting monthly. Board meeting dates have changed to the fourth Tuesday of the month. All board meetings are held at the Adams County Agricultural and Natural Resources Center at 4:30pm unless otherwise specified. The public is invited to attend.
- <> Contact: Michelle Kirk 717-677-4628 or email at: mkirk@adamswatersheds.org

Watershed Alliance of York - www.watershedsyork.org

- Oct. 6 - Meeting of WAY Board of Directors, 7:00 PM, at 324 W. Market St., York, PA.
 - COMMUNITY CLEANUPS - WAY to help coordinate and finance your community's illegal dump cleanup.
 - COMMUNITY EVENTS - Got a community event planned for 2010 that you would like WAY to exhibit its display? Contact us.
 - SPEAKERS BUREAU - Need a speaker for your event? Contact WAY's speakers bureau composed of local experts in watershed-based planning, restoration and planning.
 - WAY E-News - Published by the Watershed Alliance of York, Inc. to inform the public about news and information that affect York County watersheds and beyond. PLEASE SHARE WITH YOUR MEMBERSHIP AND E-MAIL LIST. Contributions of news, events and information relating to watershed education, funding, planning, restoration, protection, and stewardship welcome. Send contribution to and contact us for mailing list additions/changes to the e-mail address below. Distribution: electronic (1,850). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.
 - www.goodsearch.com and be sure to enter **WAY** as the charity you want to support.
- <> Contact: Watershed Alliance of York, Inc. (WAY), C/o York County Conservation District, 118 Pleasant Acres Road, York, PA 17402.

Phone: (717) 840-7430. Facsimile: (717) 755-0301. E-mail: gpeacock@yorkccd.org

Yellow Breeches Watershed Association – www.ybwa.org

- Sep 8 – YBWA Board Meeting
 - Oct – TBA - Annual Membership Meeting
 - Dec 8 – YBWA Board Meeting
- <> Contact: John Eby, President, at john_eby@lower-allen.pa.us

York-Adams Regional Smart Growth Coalition – www.yorkadamssmartgrowth.org

<> Contact Shanna M. Wiest, Government Affairs Director, REALTORS Association of York & Adams Counties, Inc. 901 Smile Way York, PA 17404. Phone: (717) 843-7891. Fax: (717) 854-0720. <http://www.rayac.com>

York Audubon Society – <http://www.yorkaudubon.org/>

<> Contact Tom Smith at 717-246-9767 or tls35@psu.edu.

York County Conservation Alliance - www.yorkcountyconservationalliance.org

<> Contact: Jane Heller at info@yorkcountyconservationalliance.org or 717-845-3797, or mail to YCCA - 543 Dupont Ave, York, Pa. 17403

York County Conservation District – www.yorkccd.org

- Board meets 2nd Friday, 11:30 a.m. (December-March) and 2nd Thursday, 7:00 p.m. (Apr.-Nov.), at the York County ANNEX
 - Rain barrels for sale! Visit our website for more information and prices.
- <> Contact: YCCD at 717-840-7430 or yorkccd@yorkccd.org

York County Planning Commission – www.ycpc.org

- Meets 1st Tuesday at 7:30 p.m., except Wed. Nov. 1 at 7:30 and Tues. Dec. 1, 6:00 p.m., at 28 E. Market St., 2nd Floor.
- <> Contact YCPC at 717-771-9870 or planner@ycpc.org



WATERSHED EDUCATION & OUTREACH

Blue Crab Advisory Report Recommends Continued Conservation Measures for Chesapeake's Iconic Crustaceans

July 2010 – A report recently released by the Chesapeake Bay Stock Assessment Committee (CBSAC) notes that the Chesapeake Bay's blue crabs appear to be making a comeback, but recommends that the jurisdictions that manage the blue crab fishery continue to keep conservation measures in place. The 2010 Chesapeake Bay Blue Crab Advisory Report cites the success of recent measures to control blue crab harvest and emphasizes the need for these conservation efforts to continue into the future. Read article... http://www.chesapeakebay.net/news_bluecrabadvisory10.aspx?menuitem=52512.

Mid-season Monitoring Results Show Good Overall Picture for Grasses in Lower Bay

Beds of underwater grasses, or SAV, in the lower Chesapeake Bay appear to be similar to or larger than those seen in 2009, according to a mid-season monitoring update by the Virginia Institute of Marine Science. Learn more... <http://www.chesapeakebay.net/baygrasses.aspx?menuitem=14621>

Local Action Video Showcase Highlights Restoration Work Taking Place Throughout Chesapeake Bay Watershed

"What are you doing to help the Chesapeake Bay on a local level?" That's the question 15 groups from the Chesapeake Bay watershed's six states and the District of Columbia answered for their local political leaders through the Chesapeake Bay Program's first-ever Local Action Video Showcase this spring. The videos showed citizens across the watershed working to do their part to restore the Bay. From river cleanups and rain garden plantings to best management practices and living shorelines, all of these groups are pitching in to help protect the Bay and their local rivers. See for yourself... <http://vimeo.com/12202086>

UMCES to Perform Critical Study of Bay Microorganisms

The University of Maryland Center for Environmental Science has received \$100,000 in federal funding for a critical, first-of-its-size study of the microbial communities that make up much of the Chesapeake Bay's ecosystem. Learn more about the Lower Food Web <http://www.chesapeakebay.net/lowerfoodweb.aspx?menuitem=14625>.

Use a Phosphate-free Dishwasher Detergent

Switching to a phosphate-free dishwasher detergent reduces the amount of phosphorus – a major Bay pollutant – that enters our groundwater, local waterways and eventually the Bay. In Maryland, New York and Virginia, it's now the law to use phosphate-free detergents. Learn more about what you can do... <http://www.chesapeakebay.net/helpthebay.aspx?menuitem=14796>

USGS: 36 Counties Now In Drought Watch Condition

The USGS Pennsylvania Water Science Center this week reported 3 more counties are now in drought watch condition using the Palmer Drought Severity Index bringing the total to 36 of Pennsylvania's 67 counties. The counties include: Adams, Bedford, Blair, Bradford, Cambria, Clarion, Columbia, Crawford, Cumberland, Erie, Forest, Fulton, Huntingdon, Jefferson, Juniata, Lackawanna, Luzerne, Lycoming, McKean, Mercer, Mifflin, Monroe, Montour, Northumberland, Perry, Pike, Potter, Snyder, Sullivan, Susquehanna, Tioga, Union, Venango, Warren, Wayne, Wyoming and York. For current drought conditions, visit the USGS Pennsylvania Water Science Center webpage <http://pa.water.usgs.gov/monitor/palmer/index.html>.

EPA Notifies Farmers of the Need to Comply with Rules Protecting Pennsylvania Waters

(PHILADELPHIA – July 21, 2010) The U.S. Environmental Protection Agency is calling on Pennsylvania farmers to comply with federal and state regulations designed to protect water quality. EPA is joining the Lancaster County Conservation District in urging farmers in the Muddy Run Watershed and throughout the County to take steps to reduce groundwater contamination and the discharge of manure to streams. The Agency recently notified farmers of the applicability of the requirements, both by mail and at a public meeting convened by the Conservation District July 8. Baseline compliance with Pennsylvania regulations requires farmers to implement a plan for controlling erosion and sedimentation, and a plan for managing manure. Farms in the Muddy Run watershed that do not have these plans in place by Dec 3, 2010 will be given high priority for inspections by EPA and may be designated as Concentrated Animal Feeding Operations (CAFOs), subjecting them to much more stringent permitting requirements. In the meantime EPA will continue its compliance assurance activities, including inspections and enforcement, throughout the State and County. Farmers can receive assistance from the Conservation District, Natural Resource Conservation Service, and private consultants to develop the required plans and implement the best management practices needed to meet water quality protection goals. These practices may include cover crops, proper manure storage, stream fencing, riparian forested buffers, gutters, and restricting winter application of manure. In a previous round of evaluations in the Watson Run watershed, EPA found that 85 percent of the farms were not complying with the state requirements, resulting in contamination of streams and groundwater. Muddy Run is a tributary of the Susquehanna River and is located in the Chesapeake Bay watershed. This initiative is part of EPA's multi-state, multi-media effort to implement President Obama's Executive Order for the Chesapeake Bay watershed, and a compliance and enforcement strategy to improve water quality in local waterways and the Bay. For more information visit:

<http://www.epa.gov/compliance/civil/initiatives/chesapeakebay.html>.

DEP Finalizes Agreement To Redevelop Harley Davidson Property In York

The Department of Environmental Protection recently finalized a remediation and liability protection agreement with Harley Davidson Motor Company and the York County Industrial Development Authority related to Harley's motorcycle manufacturing plant in Springettsbury Township, York County. Late last year, Harley made the decision to keep its Pennsylvania operations, and jobs, in York County, rather than moving them to Kentucky, and it appears that the agreement by IDA to purchase the property that makes up the "West Campus," subject to an acceptable "Buyer Seller Agreement," may have played a role in that decision. The Buyer-Seller Agreement commits Harley, along with the United States Department of Defense, to continue to investigate environmental conditions on the West Campus, and to implement, and pay for, an appropriate clean up plan. The upside for the IDA is that it may purchase the property without fear that the state DEP will attempt to include the IDA as a party responsible to share in those costs by virtue of its ownership interest in the property. Typically, an entity that owns contaminated property can be held liable for some or all of the clean up costs. The Buyer Seller Agreement states that IDA may take title to the property before the investigation or cleanup is complete, and that DEP will not seek to hold IDA liable for any costs to clean up any contamination that is identified. In fact, in this instance, DEP has taken that promise one step further - DEP has agreed to insulate IDA for ANY contamination on the property - whether or not it has been identified during the investigation or not. While this protection is typically provided to municipal authorities such as IDA by law, in this instance, all of the liability protections are transferable to future owners of the property, regardless of whether they are public or private ventures. Not something the DEP normally agrees to, it demonstrates perhaps not only the importance of the deal to the Commonwealth, but the creativeness and negotiating abilities of those involved. Paul Bruder of Rhoads & Sinon was environmental counsel for the IDA for this Buyer Seller Agreement, while Scott Gould of McNees Wallace and Nurick represented Harley and Michael Buchwach was DEP's attorney. A copy of the agreement is available online

<https://docs.google.com/fileview?id=0B4Y3VQLxjxk0ZGI4NzlmNmltY2Q3My00YzFILTkzNTEtNzYzZTk5NTA1MmU2&hl=en>.

New Initiative Strives to Connect People with Rivers

At listening sessions across the country, Americans are speaking up to make rivers the focus of a new Obama administration initiative, America's Great Outdoors. The initiative is aimed at promoting recreation, especially among kids, and safeguarding our lands and waters. Check out a listening session near you. Learn how... <http://www.americanrivers.org/newsroom/blog/speak-up-for-rivers-7-6-2010.html>.

Going Green for Clean Water

A growing number of cities, including Chicago, Portland, Seattle, and Milwaukee are reclaiming their rivers and streams by taking a more innovative approach to water management that can revitalize clean water and communities. Achieving a vision of greener and more vibrant communities and healthy rivers will require moving green infrastructure from an "innovative" practice to a mainstream practice. Learn how... <http://www.americanrivers.org/newsroom/blog/going-green-for-clean-water-7-16-2010.html>.

PennDOT Hails Volunteers for Collecting 12 Million Pounds of Litter in Spring Cleanup Effort

HARRISBURG -- More than 186,000 volunteers cleaned 19,373 miles of roads, trails and shorelines in Pennsylvania during the Great American Cleanup of PA, which ran from March 1 to May 31, PennDOT Secretary Allen D. Biehler, P.E. said. During the cleanup, 12 million pounds of trash was collected, with 3.7 million pounds collected by PennDOT's Adopt-A-Highway program volunteers. There were 4,822 reported cleanup events statewide. Of the total miles cleaned, Adopt-A-Highway groups cleaned a record 12,340 miles of roadways, with the help of nearly 104,000 volunteers. Over the past three years, the Great American Cleanup of Pennsylvania has yielded more than 29.5 million pounds of collected trash, involved 533,627 volunteers and resulted in 54,940 miles of roadways cleaned. As part of those efforts, 284,838 Adopt-A-Highway volunteers collected more than 10.9 million pounds of litter on 32,678 miles of highway in that same period. PennDOT requires that Adopt-A-Highway volunteers complete four cleanups per year, and the groups were encouraged to join in the Great American Cleanup of PA. The 7,156 groups in the Adopt-A-Highway program have two-year commitments and have adopted 16,562 roadway miles. PennDOT provides gloves and safety vests for Adopt-A-Highway and Great American Cleanup of PA groups. The department typically spends approximately \$11 million annually for litter pickup with department staff.

Watershed Monitoring Through Google Earth

The Clean Watersheds Project is a watershed monitoring project that uses Google Earth Pro to store and share watershed data. The website is used to collect, post, and analyze data about watersheds in an effort to better understand how to maintain and improve them. If you're interested in learning more about the project or by getting your local school involved, visit <http://cleanwatersheds.wikispaces.com/>.

State Conservation Commission, Districts Recognize Excellence In Protecting PA's Resources

The State Conservation Commission this week honored individuals and organizations throughout Pennsylvania that have dedicated themselves to protecting the state's natural resources, Agriculture Secretary Russell C. Redding. Rep. Ron Miller (R-York) was also named 2010 Conservation Legislator of the Year by the PA Association of County Conservation Districts. "Pennsylvania is fortunate to have committed men and women who work each day to conserve our natural resources," said Secretary Redding. "We are pleased to have this opportunity to recognize some of the outstanding partners we have across the state." "Rep. Miller was cited for his years of service to conservation districts and support of programs that promote environmental stewardship," said Susan Marquart, executive director of PACD. "He assists at York County's Envirothon events and has authored or co-sponsored numerous pieces of legislation to facilitate conservation district activities including amendments to the Conservation District Law, as well as bills dealing with mitigation of flood hazards and establishment of dedicated funds for conservation districts." "Receiving an award from the hard-working members of the Pennsylvania Conservation Districts is especially rewarding," said Miller, Minority Chair of the House Game and Fisheries Committee. "I am proud to accept this award as someone who has always loved the outdoors and tried to do his best to maintain what we have. Pennsylvania is a beautiful state, and we need to do all we can to promote, preserve and protect that natural beauty, as well as our environment." Among those earning recognition today were three individuals for leadership and distinguished service, one county conservation district, and members of a team of experts who travel throughout the state helping other conservation districts improve their programs and operations.

Is water the next 'big thing'?

Water is that essential source of life which to many of us seems limitless and ever-flowing — but is it? An editorial by the president of Regent Wealth Management Group believes water will be the next big investment. Read article...

<http://nhregister.com/articles/2010/07/27/business/ff3weiss0725072710.txt>



WATERSHED FINANCIAL ASSISTANCE

USDA Announces CRP General Sign-up – Aug 27

Earlier this week, the U.S. Department of Agriculture (USDA) announced a general sign-up for the Conservation Reserve Program (CRP). This program was created under the 2008 Farm Bill and authorizes USDA to enroll up to 32 million acres into CRP. This is a voluntary program that assists farmers, ranchers and other agriculture producers in using their environmentally-sensitive land for conservation benefits. Contracts for CRP typically last between 10 and 15 years. All eligible farmers, ranchers and agriculture producers are encouraged to sign up for the program. The Farm Service Agency (FSA) will evaluate and rank eligible CRP offers based on environmental benefits to be gained from enrolling the land. Sign-up begins August 2, 2010 and ends August 27, 2010. Contracts awarded under this process become effective October 1, 2010. For more information, please click here <http://www.fsa.usda.gov/FSA/webapp?area=home&subject=copr&topic=crp-sp>.

Watershed Protection and Restoration Grants and Flood Protection Grants through the Growing Greener Plus Program – Sep 17

As part of the 2010 Department of Environmental Protection's (Department) Growing Greener Plus Program, applications are now being accepted for watershed protection and restoration grants. Under 27 6101–6113 (relating to Environmental Stewardship and Pa.C.S. §§ Watershed Protection Act), the Department is authorized to allocate these grants to a variety of eligible applications including: counties, authorities, other municipalities; county conservation districts; watershed organizations recognized by the Department who promote local watershed conservation efforts, council of governments, and other authorized organizations involved in the restoration and protection of the environment in this Commonwealth. For the upcoming grant round, the Department will invest in projects that will ultimately protect and/or restore this Commonwealth's watersheds from impairment due to nonpoint source pollution. Examples of special priority areas include: Chesapeake Bay Nutrient Reduction—implementation of projects leading to quantitative load reductions of nitrogen, phosphorus and sediment within the Chesapeake Bay Watershed; projects located in "priority" watersheds that reduce the source of impairment and "priority" type activities that lead to water quality restoration or protection. Examples of eligible projects could include reducing nonpoint source pollution in watersheds where streams are impaired; integrating stormwater management and flood protection into watershed management; encouraging the beneficial use of abandoned mine pool water; and water conservation strategies, and projects that will help reduce Total Maximum Daily Load pollutants. Through the same application process, applicants can also apply for funding through the Department's Flood Protection Grant Program and Section 319 Nonpoint Source Grant. Flood protection grants are for communities that operate and maintain State and Federal flood protection projects. Section 319 Grants focus on funding similar projects to Growing Greener but with special emphasis within targeted watersheds. The deadline for submitting applications to the Department's Growing Greener Grants Center (Center) is September 17, 2010. Applications must be postmarked no later than September 17, 2010. If hand delivered, the package must be received by the Center by 4 p.m. on September 17, 2010, at the address that follows. Late submissions will not be considered. To request or download an application or obtain more information concerning the Growing Greener Programs, visit the Growing Greener web site at www.depweb.state.pa.us (DEP Keyword: Growing Greener). Persons can send e-mails to GrowingGreener@state.pa.us or contact the Center at (717) 705-5400. Written requests should be addressed to Department of Environmental Protection, Grants Center, 15th Floor, Rachel Carson State Office Building, 400 Market Street, P. O. Box 8776, Harrisburg, PA 17105-8776.

Watershed Assistance Grant Program – Sep 25

Deadline: September 25, 2010 – The Chesapeake Bay Trust and the Maryland Department of Natural Resources welcome requests for technical planning and design assistance associated with protection and restoration programs and projects that lead to improved water quality in the Maryland portion of the Chesapeake Bay watershed and the Maryland Coastal Bays. The funding partners invite local governments and non-profit organizations to submit requests for this assistance. The purpose of this assistance is to help grantees accomplish the earliest phases of restoration projects. Recipients of this technical assistance and design funding may use the resulting plans and designs to:

- Accomplish deliverables listed in the applicant's proposal to the Maryland Chesapeake and Atlantic Coastal Bays 2010 Trust Fund through the Maryland Department of Natural Resources (the Local Implementation Grant Program) or through the Maryland Department of the Environment.

- Craft proposals for implementation funding through programs at the Chesapeake Bay Trust; or
- Craft future proposals to the Chesapeake and Coastal Bays 2010 Trust Fund through the Maryland Department of Natural Resources, the Maryland Department of the Environment, or other agencies.

The Watershed Assistance Grant Program is one element of the State of Maryland's Watershed Assistance Collaborative. The Watershed Assistance Collaborative includes other opportunities for local governments and non-profit organizations, such as training events and programs for watershed restoration financing and planning. Please visit <http://www.dnr.state.md.us/bay/czm/2010tfs.html> for the most updated information on the Watershed Assistance Collaborative. Resource:

http://www.cbtrust.org/site/c.miJPKXPCJnH/b.5457627/k.463C/Watershed_Assistance.htm.



WATERSHED FACILITATION ASSISTANCE

POND MANAGEMENT - Aug 5

A Program of the College of Agricultural Sciences, and Capital Region Cooperative Extension

• Thursday, August 5, 2010 6:00 p.m. to 8:00 p.m., Nixon County Park Nature Center Nixon Drive York, PA 17407

Participants can bring a sample of the most abundant plants in their pond. Bring a container of pond water containing your plants. Books will be available to help identify the plants. This exercise relates to plant management in your pond. By understanding the ecology of your pond and how to control vegetation you can enhance the beauty and health of your pond. Registration Fee: \$10 per person includes refreshments and notebook of materials. \$3 for additional person from same home/farm. Share a notebook. Please make checks payable to: PSCE Fund Please return registration form and payment by: July 27, 2010 York County Extension Office 112 Pleasant Acres Road, York, Pa. 17402 Phone: 717-840-7408 Fax: 717-755-5968

Announcement of the Nutrient Credit Clearinghouse Rulebook and Mock Auction - Aug 5

The Pennsylvania Infrastructure Investment Authority (PENNVEST), in cooperation with the Pennsylvania Department of Environmental Protection (DEP), announced last week its inaugural step in the creation of a Nutrient Credit Clearinghouse within the Chesapeake Bay watershed in Pennsylvania. More information on this announcement and the posted material can be found on both PENNVEST (<http://www.pennvest.state.pa.us>) and DEP (<http://www.dep.state.pa.us/river/Nutrient%20Trading.htm>) websites. In order to address questions and gather comments regarding the posted material and the auction process, the following meetings have been scheduled:

- webinar 1C to be scheduled either Thursday, August 5, 2010 or Friday, August 6, 2010.
- meeting in person with PENNVEST, DEP and Chicago Climate Exchange (CCX) staff 1C on Wednesday, August 18, 2010 (due to space there will be an RSVP for this meeting)
- a debriefing session for mock auction participants on Wednesday, September 15, 2010

The exact time for each meeting, information on accessing the webinar, and the location of the meetings, will be posted to both websites shortly. Email notification of the details will also be provided. For additional information on the mock auction, or if you have questions related to the rulebook or the meetings being planned, you may contact any of the following individuals: PENNVEST: Paul Marchetti, 717-783-4496, pmarchetti@state.pa.us; DEP: Ann (Smith) Roda, 717-787-4726, annsmith@state.pa.us; CCX: Jeff O'Hara, 312-229-5136, johara@chicagoclimatexchange.com.

"Buy Fresh. Buy Local York County Farmstand Tour - Aug 7 & 14

The York County Farmstand Tour will be held on Saturdays, August 7 & August 14, 2010 from 9 a.m. – 3 p.m. Visit four(4) of the participating farmstands, have your passport stamped and turn in your passport for a prize and prize drawings at the finale locations. The August 7 Finale location is the Horn Farm Center TomatoFest from 11 a.m- 5p.m. and August 14 will be at the York County 4-H Fair at the 4-H Center from 8 a.m. – 5 p.m. This will be a great opportunity to find and get to know your local food sources! Participating Buy Fresh Buy Local Partner Farmstands online: Map Link:

<http://maps.google.com/maps/ms?hl=en&ie=UTF8&msa=0&msid=102092881189656813780.000489a68657ef98b4239&ll=39.942384,-76.554108&spn=0.47906,1.229095&z=10>. Buying Local York County produced food guarantees freshness, taste and nutritional quality,

while keeping your money planted in our local economy! Buying Fresh and Buying Local supports our local family farms, thus preserving open space and reducing the damage to our environment. Please spread the word about this event to your friends, neighbors and co-workers! A flyer is attached for you to forward or share online. ENJOY A TASTE OF SUMMER- visit a Buy Fresh Buy Local Partner!

New Watershed Academy Webcast "Re-Visioning Landscapes with LID: The Houston Experience" - Aug 11

Join us for a webcast on Wednesday, August 11, 2010 at 1:00 pm EDT on "Re-Visioning Landscapes with LID: The Houston Experience."

Register at: www.epa.gov/watershedwebcasts. Take a break from the summer heat to join us for the "Re-Visioning Landscapes with LID: The Houston Experience" webcast. During the past winter, the Houston Land/Water Sustainability Forum sponsored a national Low Impact Development (LID) Design Competition. The competition was created to educate design professionals, decision makers and the public on the economic, environmental and quality-of-life positive impacts of LID. The design teams, most of whom had no previous experience with LID, created designs for three real developments being planned around greater Houston—a green roadway, urban redevelopment, and a suburban residential design. This webcast will feature participants from all portions of the competition—competition organizers, competition winners, and design judges. This webcast will also feature a discussion of the competition's ripple effect on Houston's design/build community as well as the building ordinances in Houston. The competition is spawning interest beyond Houston on the benefits of LID. See for yourself what's behind the buzz. You must register in advance to attend this webcast. Register at the Watershed Academy Webcast Web site at:

www.epa.gov/watershedwebcasts. Note: Your computer must have the capability of playing sound in order to attend this webcast. To view archived webcasts, go to www.epa.gov/owow/watershed/wacademy/webcasts/archives.html. Questions? Please contact Amber Marriott at amber.marriott@tetratech.com.

Permeable Pavement Design, Installation, and Maintenance

The Center for Watershed Protection is pleased to announce the third offering in our 2010 webcast series. Attendees can now save time, travel expenses and, perhaps most importantly, carbon emissions, by attending our training workshops over the Web. This webcast will focus on Permeable Pavement Design, Installation, and Maintenance. Join speakers from CWP as well as industry professionals as they share their experiences and lessons learned. Recent advances in both research and technology have shifted permeable pavement into the stormwater forefront along with other runoff reduction practices. This webcast will provide practical design, installation and maintenance tips to boost the runoff reduction and pollutant removal performance of pervious concrete, porous asphalt, permeable pavers, and other types of permeable pavement. Updated and essential design tools for the stormwater professional will be provided, and a panel of experts will address common myths and concerns surrounding this practice. For more information about this webcast and the entire 2010 series, visit www.cwp.org. CWP'S WATERSHED & STORMWATER MANAGEMENT WEBCAST SERIES: Permeable Pavement Design, Installation, and Maintenance (Two-Hour Live Webcast). Date 7 Time Wednesday, September 1, 2010. Eastern: 12:00 pm - 2:00 pm. Cost: \$119. Note: Early registration specials are available that can save significant coinage. Registration closes 8/27/10. Space is limited, so register today to secure your spot! AWSPs Members: Remember your membership allows you an additional \$20 off the registration price . FOR AWSPs Members Only - \$79 for early bird registration (by August 6th) and \$99 after August 6th. Click here for more information on [joining the Association of Watershed and Stormwater Professionals](#).

If You Build It, Fish Will Come: Natural Stream Design Construction Management Techniques – Sep 14-16

Natural stream design (NSD) is being applied to a wide spectrum of environmental restoration projects, including highway bridge construction, flood management, coal mine reclamation, water quality, and instream habitat improvement. Aimed at project designers, construction site managers, and equipment operators, this course will provide step-by-step instruction from initial background concepts, through site management and construction, to final clean-up. Students will spend two days on a CVI project under construction that includes pattern, dimension, and profile restoration. Training will be provided by CVI staff on construction stakeout and installation of instream structures. This workshop will be an intensive mix of classroom and fieldwork. Date: September 14-16, 2010. Location: CVI's Research & Education Center Davis, WV ([click here for directions](#)). Fee: \$950.00; includes instruction, CEUs, materials, books, field transportation, lunches, and snacks, 16 PDHs or 1.6 CEUs. Who should attend: Anyone working in the management, monitoring, assessment or design of stream restoration or reclamation projects; officials; planners; and construction supervisors. Register:

http://www.canaanvi.org/canaanvi_web/events_ed.aspx?collection=cvi_workshops&id=932

2nd Annual Downtown Hoedown benefitting land preservation efforts of Farm & Natural Lands Trust of York County – Sep 30

Mark your calendars for Thursday, September 30, 2010 for the 2nd Annual Downtown Hoedown benefitting land preservation efforts of Farm & Natural Lands Trust of York County. The event will once again take place at the Agricultural & Industrial Museum, located at 217 W Princess St, the perfect setting for a late September evening out. Festivities begin at 5:30 PM with complimentary beer and wine, also featuring a wonderful picnic spread catered by Artistic Foods Catering. All evening long enjoy our roving folk-bluegrass friends Waitin On A Train, who will provide a soundtrack to make the night complete. Throughout the evening there will be a unique raffle, as well as live and silent auction items you won't find anywhere else. Exciting items already confirmed include: Day of hunting on a private preserved property; Week stay at a beach front house in Nags Head; Expert fly fishing instruction and private tour; and much more! Do you have a unique item or talent to share? If you have something you care to donate to benefit FNLT, by all means drop me a line! Attached is also a donation letter and form, if you are so inclined. Watch in the coming weeks for more items and ticket information. Big thanks to our presenting sponsor Glatfelter Insurance Group! For more information or to donate gift, contact Sean P. Kenny, Executive Director
Farm & Natural Lands Trust of York County, 156 N George St, Ste 300, York, PA 17401. Phone (717) 843-4411. E-mail skenny@farmtrust.org.

BRUNNER ISLAND Summer 2010 Environmental Programs

DATE	PROGRAM	LOCATION*	TIME
Fri., Aug. 20	Hibiscus Walk	H-B	9-11 a.m.
Sat., Sept. 18	Monarch Tagging	BIW	10 a.m. to noon
Sat., Sept. 25	Watershed Cleanup	H-B	9 a.m. to noon

*Location Code: BIW – Brunner Island Wetlands H-B – Hibiscus Natural Area/Boat Ramp

HOLTWOOD Summer 2010 Environmental Programs

DATE	PROGRAM	LOCATION*	TIME
Sat., Aug. 21	Paws, Claws, Scales & Tails	PCG	2-3 p.m.
Sun., Aug. 22	KTA Training Hike #2: Pequea Creek Campground to Norman Wood Bridge	PCG	10 a.m.
Wed., Aug. 25	Edible Plants	HEC	7-8:30 p.m.
Sat., Sept. 11	Susquehanna Super Hike & Ultra Trail Run	PCG	7 a.m. - 7 p.m.
Friday., Oct. 8	PA Hunter/Trapper Education Course **Independent study required prior to classroom testing**	HEC	6:30-9:30 p.m.

* Location Code: HEC – Holtwood Environmental Center L 12 – Lock 12 Historical Area PCG – Pequea Creek Campground

For more information, please visit our Web site at www.pplpreserves.com. Call 1-800-354-8383 or e-mail pplpreserves@pplweb.com. For more information on the current river conditions, call the Lower Susquehanna Hot Line at 1-800-692-6328. additional program details can be found on the Calendar of Events at www.pplpreserves.com

WATERSHED TECHNICAL ASSISTANCE

New Report on Sediment and Nutrient Loads from Stream Corridor Erosion

A report entitled "Sediment and nutrient loads from stream corridor erosion along breached millponds" was recently authored by Dorothy Merritts, Robert Walter, and Michael A. Rahnis at Franklin and Marshall College, and is available for download in Word and PDF format. Along with Franklin and Marshall College, PADEP supported the study and findings. Given the ubiquitous nature of legacy sediment in PA and elsewhere, these findings and estimates demonstrate the magnitude of the problem. The report illustrates the reality that many previous assumptions and models, focused largely on modern land use and activities as the dominant source of suspended sediment and nutrient loads, need to be re-evaluated and adjusted in many watersheds. Modeling results presented in this paper identify the current and likely future trajectory of incised channels, typical in many watersheds today, and their likelihood to produce substantial sediment and nutrient loads for a period that is on the order of centuries. This trajectory is in stark contrast to natural functioning stream corridors and ecosystems that are the goal of management practices we are developing specifically to restore ecological function and value in watersheds impaired by legacy sediment. Download: <http://edisk.fandm.edu/michael.rahnis/outgoing/DEP/>

How to Keep Flooding "Out of Your Back Yard"

Community officials are faced with ever increasing challenges related to disaster prevention, especially in the realm of flood losses. Flooding is the # 1 natural hazard in the nation. Low-probability, high-consequence flood events account for millions, and often billions, of dollars in flood damages each and every year. Community leaders must prepare in advance if they wish to gain the upper-hand on the devastating effects of flooding on their community. The current policy of development in most communities in the United States promotes intensification in risk areas; ignores changing conditions; ignores adverse impacts to existing properties, both up and downstream; and undervalues the natural and beneficial functions of our nation's floodplains, wetlands and sensitive areas. The central message is this: We have done a number of positive things in recent years to combat flooding, both structural and non-structural, but it is not enough - even if we perfectly implement the current standards, damages will increase, because we are putting development in the path of disaster. So what do we do, as a community, to curb this cycle of build - flood - rebuild?? The Association of State Floodplain Managers (ASFPM) has spent the last several years coming up with a workable and cost effective solution. No Adverse Impact (NAI) is a concept / policy / strategy that changes one's focus from building within the environment to "do no harm". No Adverse Impact (NAI) is an approach that ensures that the action of any community or property owner, public or private, does not adversely impact the property and rights of others. The true strength of the No Adverse Impact approach is that it encourages local decision making to ensure that future development impacts will be identified, considered on a watershed-wide basis, and mitigated - it is a truly comprehensive strategy for reducing the losses, costs, and human suffering caused by flooding. The pluses to the NAI Approach are eye-catching:

- Will reduce future flood damages;
- Will protect the communities natural resources and amenities;
- Will improve the quality of life;
- Will provide for more sustainable growth within the community;
- Will reduce the community's liability

Other potential benefits to the community of utilizing the NAI Approach can include:

- Improved water quality and reductions in non-point pollution impacts;
- Green corridors which also serve as additional areas for floodwater storage;
- Improved groundwater recharge;
- Better bank stabilization and better erosion control;
- Possible increased property values near these "green" areas;
- Decreased possibility of litigation

Communities can begin now to explore the positive results of No Adverse Impact (NAI). They can start by defining "adverse impact" for their community's unique conditions (this is not a one shoe fits all philosophy). "Adverse impacts" can be defined by evaluating their community's hazards (especially in or near the floodplain, and more importantly, throughout the entire watershed) and also their community's programs for addressing those potential hazards. Most importantly, communities can require all adverse impacts to be mitigated at the time that development occurs. For more information about No Adverse Impact, contact Larry Larson or George Riedel at ASFPM, (608) 274-0123 or see ASFPM's website at www.floods.org and click on the link - "No Adverse Impact".

"Putting Smart Growth to Work in Rural Communities" report now available

ICMA has released a new report, "Putting Smart Growth to Work in Rural Communities," which focuses on how to adapt smart growth strategies to rural communities. Funded by the U.S. Environmental Protection Agency's Office of Sustainable Communities, the report examines the challenges rural communities face, including rapid growth at metropolitan edges, declining rural populations, and the loss of working lands. It highlights smart growth strategies that can help guide rural growth while preserving the unique rural character of existing communities. The report focuses on three central goals: 1) support the rural landscape by creating an economic climate that enhances the viability of working lands and conserves natural lands; 2) help existing places to thrive by taking care of assets and investments such as downtowns, Main Streets, existing infrastructure, and places that the community values; and 3) create great new places by building vibrant, enduring neighborhoods and communities that people, especially young people, don't want to leave. Featuring case studies from across the country, the report highlights how local governments, states, and non-profits have successfully implemented smart growth strategies to support rural lands, revitalize existing communities, and create great new places for residents and visitors. To read the full report, visit: www.icma.org/ruralsmartgrowth. Hard copies of the report will be available later this summer. Stay posted to ICMA's website for information on ordering hard copies of the report.

Merged bedrock and groundwater data now available from Topo/Geo

The Pennsylvania Bureau of Topographic and Geologic Survey has just posted a merger of digital bedrock geology dataset and selected water well and groundwater data. It is a compilation of the dataset Digital Bedrock Geology of Pennsylvania first made available in 2001, and the Water Resource Report 69 (W69), Hydrogeologic and Well-Construction Characteristics of the Rocks of Pennsylvania by Gary M. Fleeger,

Thomas A. McElroy, and Michael E. Moore from 2004. The digital aquifer characteristics dataset provides selected water-well construction and groundwater statistics for 23 bedrock geologic units. To see the data, visit here http://www.dcnr.state.pa.us/topogeo/groundwater/dac_data.aspx

EPA Seeks Small Business Input on Proposed Stormwater Rule

WASHINGTON - The U.S. Environmental Protection Agency (EPA) is inviting small businesses and municipalities to nominate representatives to provide input on a proposed stormwater rule. The rule would strengthen the national stormwater program under the Clean Water Act (CWA) and focus on stormwater discharges from developed sites, such as subdivisions, roadways, industrial facilities, and commercial buildings or shopping centers. Selected participants would provide input to a Small Business Advocacy Review panel, which will consist of officials from EPA, the U.S. Small Business Administration and the Office of Management and Budget. As required by the Regulatory Flexibility Act, EPA is establishing this panel because the rule could have a significant economic impact on small entities. The representatives will provide input on how EPA can minimize the potential burden on small entities of the proposed regulation. Nominations must be received by August 4, 2010. More information about participating in the panel: <http://www.epa.gov/sbrefa/stormwater.htm>. More information about the rulemaking: <http://www.epa.gov/npdes/stormwater/rulemaking>. Contact Information: Stacy Kika, kika.stacy@epa.gov, 202-564-0906, 202-564-4355

EPA Announces Public Information Meetings for the Proposed Revised Total Coliform Rule

EPA is holding four public information meetings to provide information on the proposed revisions to the Total Coliform Rule (TCR). The proposed revisions are contained in the proposed Revised Total Coliform Rule (RTCR) which was published in the Federal Register on July 14, 2010. During the public meetings, EPA will discuss the major provisions of the current TCR, the history of the development of the proposed RTCR, the core elements of the proposed RTCR, the comparison between the current TCR and the proposed RTCR, and specific areas where EPA is requesting comment. Additional topics that will be discussed include the cost and benefit information of the proposed rule and the planned guidance manuals that will be developed to support the implementation of the final rule. The first public meeting will be held on Tuesday, August 3, 2010, 8:30 AM to 2:30 PM, Eastern Time (EDT), at the EPA East Building, Room 1153, 1201 Constitution Ave. NW, Washington, DC 20460. To register, contact Cesar Cordero at (202)564-3716 or at cordero.cesar@epa.gov. For information about the proposed rule and the other public meetings, please visit: http://www.epa.gov/safewater/disinfection/tcr/regulation_revisions.html

New Online Map Shows Network of Protection for North America's Marine Ecosystems

The latest map from the North American Environmental Atlas provides information about marine protected areas in Canada, Mexico and the United States. It provides details about the protection status and those who are responsible for management of the sites. There is also a new map viewer using Google Earth to see the Atlas' marine ecosystems maps and data. To explore this information and to view an introductory video, visit http://www.cec.org/Page.asp?PageID=924&ContentID=2910&AA_SiteLanguageID=1

First Detailed National Map of Land Cover and Vegetation in U.S.

The U.S. Geological Survey (USGS) has released the most detailed national land cover and vegetation map to assist conservationists in identifying areas with sufficient habitat to support wildlife. The map was created by data from the Southwest Regional Gap Analysis project (2004), the Southeast Regional Gap Analysis Project (2007), the Northwest Regional Gap project, and the California Gap project (2009). For areas without an Ecological System level Gap Project, the Landfire Project data was used. The map has three levels of complexity. Level one has eight classes (grassland, shrubland, forest, aquatic, sparse/barren, recently disturbed, riparian, and human land use), Level 2 has 43 classes (which includes elevation and climate) and Level 3 has 538 classes. To view the map, visit <http://www.gap.uidaho.edu/landcoverviewer.html>

Highlands Regional Study: Connecticut and Pennsylvania 2010 Update

The USDA Forest Service has released a study detailing its inventory and evaluation of natural resources in the Highlands of Connecticut and Pennsylvania. The report also provides likely effects of land-use changes on these resources. Part 1 shows where high natural resource values were found and Part 2 analyses the pattern and rate of land use change to model future growth.

For more information and to view Part 1, visit http://www.na.fs.fed.us/highlands/regional/study_pt1.shtm

For more information and to view Part 2, visit http://www.na.fs.fed.us/highlands/regional/study_pt2.shtm

To view the technical reports, visit <http://www.na.fs.fed.us/highlands/techreports/index.shtm>

Ecoregions of the U.S.

The U.S. Geological Survey (USGS) has been working on this map showing Level III and IV ecoregions for every state in the nation. To view information on ecoregions of other states in the U.S., visit http://www.epa.gov/wed/pages/ecoregions/level_iv.htm

Environmental Synopsis Features Green Roof Technology

The July issue of Environmental Synopsis newsletter published by the Joint Legislative Air and Water Pollution Control and Conservation Committee features an article on green roof technology and its ability to reduce urban heating and improve stormwater management.

Other articles include: reusable grocery bags, climate change legislation, prescription drug collection and federal biofuels road map.

Rep. Scott Hutchinson (R-Venango) serves as Chair of the Committee and Sen. Ray Musto (D-Luzerne) serves as Vice Chair. Resource:

<http://jcc.legis.state.pa.us/resources/ftp/documents/newsletters/Environmental%20Synopsis%20-%20July%202010.pdf>

Sustainable Design and Green Building Toolkit for Local Governments

The U.S. Environmental Protection Agency (EPA) developed the Sustainable Design and Green Building Toolkit for Local Governments to assist local governments with identifying and removing barriers to sustainable design and green building within their permitting process. This Toolkit addresses the codes/ordinances that would affect the design, construction, renovation, and operation and maintenance of a building and its immediate site. There are two sections to the Toolkit: the first section is an Assessment Tool and Resource Guide. The second section is a guide to developing an Action Plan for implementing changes within a community's permitting process. Resource(s):

<http://www.epa.gov/region4/recycle/green-building-toolkit.pdf>