New Opportunities for Conservation Districts

Markets,
Trading and
We as humans rely
On natural ecosysCredits

tems for multiple benefits

that are both tangible and intangible. Natural ecosystems provide an abundance of food, fuel and fiber. Natural ecosystems also provide many benefits known as ecosystems services, including clean water, clean air, wildlife habitat, recreational value and aesthetic beauty. In the past, these services have been readily available and therefore had not been assigned a value. As our activities on the land have an increasing impact on ecosystems, and as demand increases for the services that ecosystems provide, value systems such as marketbased conservation are beginning to emerge.

Market-based conservation quantifies economic values for natural resource conservation and utilizes an economic driver for implementation of conservation practices. Many of these emerging markets involve conservation practices that conservation districts have been helping landowners implement for years—practices that provide clean water, clean air and wildlife habitat. These practices include providing technical assistance, best-management practices and monitoring of implemented practices. The work of conservation districts will continue to be vital as markets for ecosystems services organize and provide benefits to landowners.

Markets for Wetlands - Wetlands Mitigation Banking

Wetlands are valuable natural systems that provide numerous ecosystems services, including clean water, floodwater mitigation, carbon sequestration and wildlife habitat. They also have aesthetic value and provide opportunities for recreation and wildlife viewing.

The U.S. Environmental Protection Agency (EPA) and the U.S. Army Corps of Engineers (Corps) maintain primary jurisdiction of

wetlands through the Clean Water Act. The agencies maintain a "no net loss" policy regarding wetlands activities. As a result, any activity that results in loss of wetlands requires a permit and also requires compensation through wetland mitigation. Mitigation can be done

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by the permittee, or through a third party.

One method of mitigating loss of wetlands is through wetlands mitigation banking. Under wetlands mitigation banking, a permittee needing to compensate for loss of wetlands due to development activities can purchase credits that provide funding to a third party to compensate for the loss of wetlands in another location. Mitigation activities can involve restoration, establishment or preservation of wetlands.

In 2008, EPA and the Corps announced a new wetlands compensatory mitigation rule that creates new standards to improve wetland restoration and protection. The new standards clarify the mitigation sequence of "avoid, minimize and compensate." The rule emphasizes site selection; watershed needs assessments; ecological performance standards and monitoring; and aquatic ecosystem science in compensation measures.

District Spotlight

Collier Soil and Water Conservation District, Florida

Collier Soil and Water Conservation District (SWCD) in Naples, Fla. has been working in agreement with the Florida Department of Environmental Protection and the Florida Department of Agriculture Division of Forestry to engage landowners in establishing Regional Offset Mitigation Areas. The District works with landowners to provide assessment services and easement purchases for wetlands and wildlife habitat, including habitat for the endangered Florida Panther, to offset the impact of residential construction in the local area. More information on Collier SWCD's efforts is available on their website at www.collierswcd.org.

Collier SWCD in Naples, Fla. works with area landowners to provide assessment services and easement purchases for wetlands and wildlife habitat mitigation, including habitat for the endangered Florida Panther.







removing and storing carbon dioxide from the atmosphere. Many conservation practices also promote healthy soils, which can store large amounts of carbon as well.

Greenhouse gas emissions markets are in early stages of development, but momentum is growing. Already, conservation practices are providing markets for carbon sequestration. The Chicago Climate Exchange was established in 2002 and provides a legally binding system for the sale or purchase of carbon credits. Climate change legislation appears to be on the horizon, with potential for even more opportunities for agriculture and forestry to derive economic benefits from conservation practices that promote ecosystems services and carbon sequestration.

Producers utilizing conservation practices that sequester carbon such as no-till farming or sustainable forestry can receive carbon credit payments. Under a cap and trade system that is being

on Market-Based Conservation Initiatives NACD recently developed a white paper under a cooperative agreement with the **Natural Resources Conservation Service** (NRCS) outlining principles behind market-based conservation initiatives and related roles for conservation districts. The white paper offers insights on marketbased opportunities for conservation districts, NRCS field staff and other interested conservation practitioners. For more information on market-based conservation and case-studies on the work of conservation districts, download the white paper from NACD's website at www.nacdnet.org/resources/reports/.

New Resource from NACD – White Paper

considered in proposed climate change legislation, polluting entities that are regulated in the amount of carbon they can emit can pay for credits generated by producers or landowners who utilize carbon sequestering practices. This market mechanism removes carbon from the atmosphere by offsetting the release of carbon.

Conservation districts are well positioned to facilitate carbon credit trading under a cap and trade system. Carbon credit trading will require working with and educating landowners on conservation practices that store carbon through soil quality or forest health. Another key aspect of carbon trading will involve verification and aggregation of carbon credits, ensuring that quantities of carbon are sequestered through these various practices and compiling eligible acres into tradable units. Conservation districts in many states including Idaho, Illinois, Michigan, North Dakota and Oklahoma are currently working in these areas. Keep tabs on these issues and many more on NACD's website at www.nacdnet.org.

Carbon Credits Auctioned in the Northeast and Mid-Atlantic

Several Northeast and Mid-Atlantic states cooperatively participate in a carbon credit market through the Regional Greenhouse Gas Initiative (RGGI). The participating states include Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New Hampshire, New York, Rhode Island and Vermont. Each have regulations in place to cap and then reduce the amount of carbon dioxide that power plants in their region are allowed to emit. The RGGI currently has five categories of offsets, including carbon sequestration from afforestation and avoided methane emissions from manure management systems. The RGGI recently completed its third auction of carbon credits, with a fourth auction scheduled for June 2009.



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509 Capitol Court, NE Washington, DC 20002 (202) 547-6223 www.nacdnet.org