









Making Markets Work for Conservation

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Office of Environmental Markets U.S. Department of Agriculture

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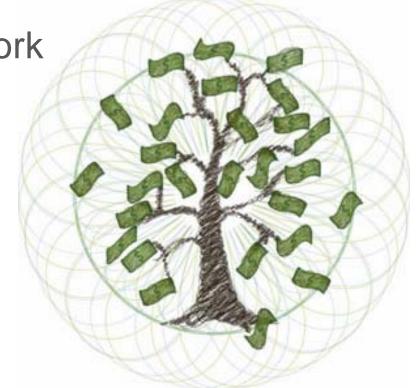
Agenda

Markets for ecosystem services

 2008 Farm Bill and the Office of Environmental Markets (OEM)

OEM 2011 Program of Work

Looking beyond 2011



What are markets for ecosystem services?

A tool for...

- Compensating landowners for the ecosystem services they provide on their private lands
- Investing private funds in natural infrastructure
- Reducing societal costs of regulatory compliance
- Encouraging innovation
- Improving the effectiveness of practices

...bringing real, verifiable conservation to scale











U.S. markets for ecosystem services

Greenhouse gas offsets (CO₂, NH₄, N₂O)

- Regional Greenhouse Gas Initiative
- Oregon CO₂ Standard
- Voluntary markets

Water quality credits (N, P, temperature, sediment)

• Total Maximum Daily Loads (TMDL) under the Clean Water Act

Wetland mitigation banking

Clean Water Act Section 404

Conservation banking

- Endangered Species Act
- California Endangered Species Act and California Environmental Quality Act
- Pre-compliance/voluntary markets for habitat credit trading











2008 Farm Bill: Section 2709



Science-based methods to measure environmental services benefits of land management practices

Protocol to report environmental services benefits

Registry to collect, record, and maintain benefits measured Process to verify benefits registered

MARKET INFRASTRUCTURE

Build on existing activities or information

EXISTING INFORMATION

Consult with Federal and State government agencies and nongovernmental interests including farm, ranch and forestry producers; financial institutions involved in environmental services trading; academic institutions; NGO's; and private sector representatives

CONSULTATION AND COORDINATION

Office of Environmental Markets

Helping to build unified, transparent markets for ecosystem services where landowners can participate and buyers can trust that they're purchasing a real conservation benefit.





In other words, making markets work for conservation

OEM Program of Work - 2011



Market infrastructure

- Technical guidelines for carbon and water quality metric development
- Assessment of existing biodiversity/habitat and wetlands metrics

Application in the Chesapeake Bay

- Water quality trading rules under new Total Maximum Daily Load
- Tool integration and application (Nutrient Trading Tool)
- Interdepartmental Environmental Markets
 Team

OEM Program of Work - 2011

Collaboration – USDA Council and Work Group



- Research agenda
- Policy development
- Tool and resource development
- Integration with USDA programs

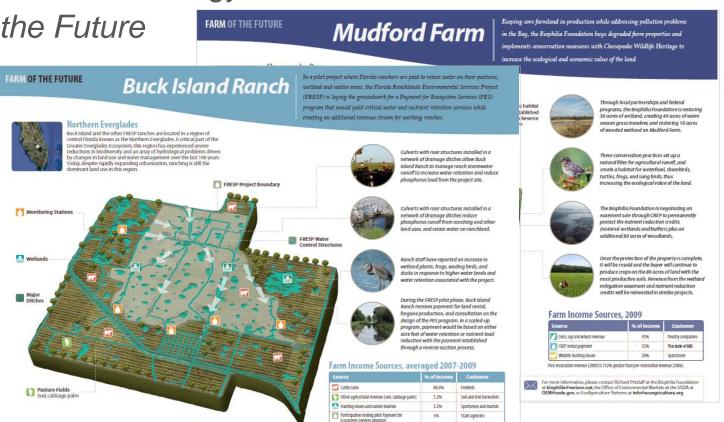
Ex: New USDA greenhouse gas efforts



- NRCS Conservation Innovation Grants and incentives – \$15 million for large-scale demonstrations of carbon sequestration
- FSA Voluntary Carbon Data Project providing carbon sequestration estimates to certain landowners participating in CRP

OEM Program of Work - 2011

- Information Delivery
 - Website launch
 - Communications strategy
 - Farm of the Future



For more information, please contact Patrick Bohlen at the Archbold Research Station at PBohlen@archbold-station.org. the Office of Environmental Markets, USDA at OEM@usda.gov, or EcoAgriculture Partners at info@acoagriculture.org

Farm of the Future

Five cases

- Wheat, corn, and alfalfa farm (California)
- Corn, soy, and wheat farm (Maryland)
- Cattle ranch (Florida)
- Sugar beet cooperative (Minnesota)
- Forest providing timber (California)

Findings

- Public programs jumpstart innovation
- Creative financing is often needed
- Demand is critical
- It takes a team





Looking beyond 2011

- Complete implementation of Section 2709
 - Technical guidelines for developing metrics, reporting protocols, registries, and verification processes
- Apply guidelines and other work products in the Chesapeake Bay and other areas
 - Federal Government as possible pilot purchaser of environmental outcomes
 - Improving project financing options (early capitalization of payments, revolving loan funds, loan guarantees)
- Next Farm Bill













Thank you!

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