

The Agricultural Pollution Prevention Program

Innovative Partnerships and Educational Programs

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In the age of limited resources.....

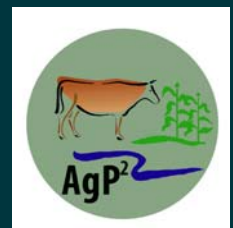
Need to leverage resources:

- funds
- people
- other resources



Partnerships critical

Good example is AgP² Program





AgP² was started in 1994

Partnership between:

UGA Cooperative Extension Service



Georgia Department of Natural Resources,
Pollution Prevention Assistance Division





P²AD recognized:

- Agriculture was \$6.22 billion industry in GA
- Farmland occupies substantial portion of land





The Agricultural Pollution Prevention Program

Our Vision

The vision of the Georgia AgP2 program is for the agricultural community to be actively practicing voluntary pollution prevention with a commitment to reducing emissions, waste, and the use of energy, water, and dangerous materials to the greatest extent possible and practical.

Agricultural Pollution Prevention Program

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[Environmental Assessments](#)

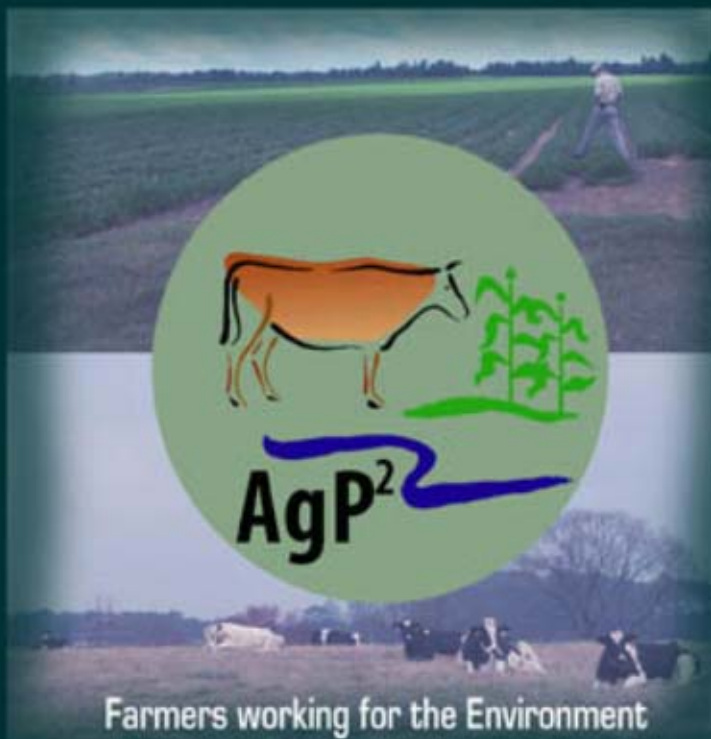
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Environmental Assessments



Georgia Farm*A*Syst Program

- Non-regulatory self-assessments

Poultry EMS

- Partners for Agricultural Environmental Management Systems— piloted in GA



Animal Waste Management

AWARE Animal **W**aste **M**anagement
in **R**esearch and **E**xtension

Coordinates animal waste management issues

TEAM

- scientists, educators, agricultural professionals, and farmers
- UGA, other universities, state and federal government agencies, agricultural associations and businesses



AWARE Goals

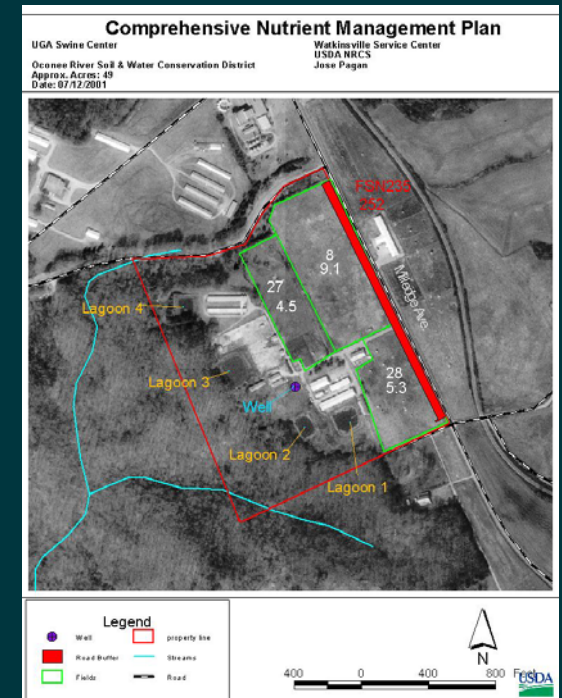


- 1) Identify waste management problems
- 2) Prioritize research and extension waste management needs
- 3) Promote statewide communication
- 4) Develop and provide educational tools/workshops
- 5) Provide a forum to demonstrate the pro-active nature of Georgia's agricultural industry
- 6) Provide information exchange and updates



AWARE Accomplishments

Developed training on how to develop Certified Nutrient Management Plans

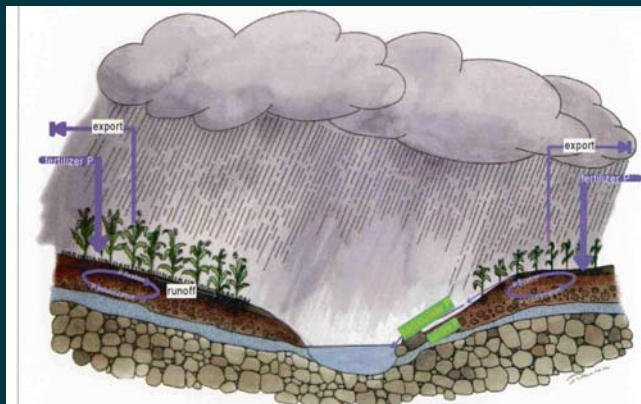
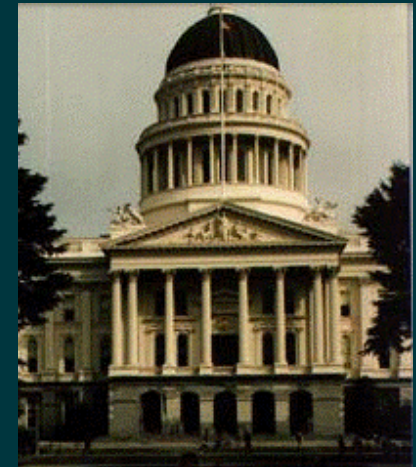


Developed training for CAFO operators

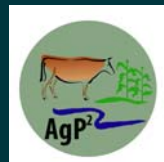


AWARE Accomplishments

Technical input for regulators, legislators, trade associations, environmental groups in GA on new animal waste regulations



Georgia Phosphorus Risk Index

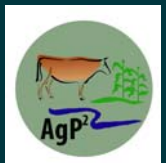


AWARE Accomplishments



Webpage with current information
Changes in regulations
Deadlines
Current workshops
National news and information

Listserve



Land Application



- Provides technical support for beneficial reuse of by-products in agriculture
- Looks for opportunities that are environmentally safe and are agronomically effective



Land Application



Wood and fly ash



Poultry litter



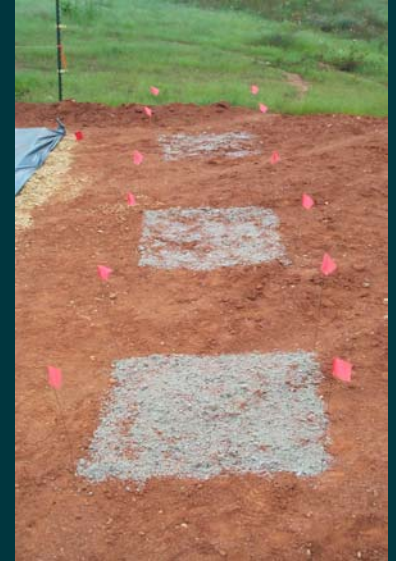
Municipal biosolids



Land Application



Engineered wood products



Scrap wallboard gypsum



Water treatment residuals

Land Application

Training for regulators on agronomic issues:

- Nutrient management
- Soil fertility



Training for operators
thru Georgia Water and
Pollution Control
Association



Sustainable Agriculture

Sustainable agriculture is:

- profitable,
- environmentally friendly, and
- good for the rural community.



Includes:

- integrated pest management,
- rotational grazing,
- soil conservation, and
- nutrient management.



These practices are integral to pollution prevention



Sustainable Agriculture

Partnership with USDA SARE PDP

Sustainable Agriculture Research and
Education Professional Development Program



Provides scholarship
money for extension,
NRCS, and farmers



Sustainable Agriculture



Edible aquifer at county agent water quality training

Helps fund training



Local food production presentation at Broad River Watershed Association



Stream biological assessment at county agent water quality training



Environmental Horticulture



Provides technical assistance and education on pollution prevention for:

- Ornamental horticulture producers,
- Commercial landscape enterprises, and
- Residential and commercial landowners



Crop Production

Focuses on pollution prevention strategies that can help farmers reduce their potential impact.

Including:

- conservation tillage systems,
- integrated pest management, and
- safe handling and storage of pesticides/hazardous materials.



Crop Production

Conservation Tillage Pays ... Everyone!

TEAM CONSERVATION TILLAGE



Natural Resource Conservation Service



Auburn University



University of Georgia
Cooperative Extension Service

Agricultural Pollution Prevention Program
(Sponsored by P2AD)
College of Agricultural and Environmental Sciences



Georgia Conservation Tillage Alliance

Farmer-led, organized 1993



Georgia Dept. of Natural Resources,
Wildlife Resources Division



Agricultural Research Service

Conservation Systems Research Team
J. Phil Cambell, Sr. Natural Resource
Conservation Center

Exhibit at the 2003 Sunbelt Agricultural Exposition



Crop Production

Rainfall simulator showing the importance of cover in reducing runoff and sedimentation



Getting started exhibit headed up by NRCS



Crop Production

Benefits of improving soil quality AgP² with Auburn University and NRCS Soil Quality Institute



Mini-rhizotron showing plants roots and soil organisms from the ARS lab at Auburn, AL.

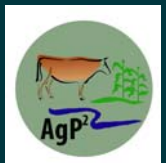


Crop Production

Gummy worms and tattoos!



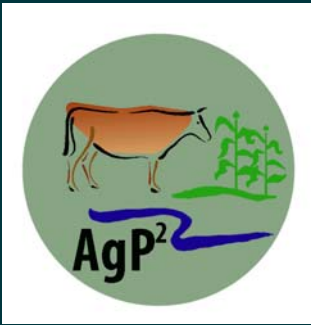
Model showing surface water processes



Success

- True collaboration
- People focused on overall mission of education rather than credit
- Identify and work with the 10% that get things done
- Share resources (use partners strengths)
- Don't reinvent the wheel





Agricultural Pollution Prevention



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Program Coordinator



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Crop Production



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