

*North Carolina*

**Climate Action Plan Advisory Group**

# Agriculture, Forestry, and Waste Technical Work Group Teleconference Meeting #10

February 9, 2007



# Today's Agenda

- Call to order
- Roll Call of Technical Work Group (TWG) members
- Review and approval of last call summary
- Review of TWG Policy Options – GHG benefits and costs quantification and policy language
- Approach for additional straw proposals provided by TWG members
- Discussion of next steps in the development of policy options
- Review remaining issues on the draft emissions inventory and forecast for Agriculture, Forestry, and Waste, time permitting
- Call to the public
- Proposed agenda items for next meeting
- Announcements

# TWG Policy Options

- **Refer to the “NC AFW Policy Options” document posted at the TWG web page and provided by email prior to the meeting.**

# Next Steps on Developing Policy Option Language Using the Template

## **See AFW Policy Options Document**

- TWG volunteer groups complete drafting text on:
  - implementation,
  - related policies/programs,
  - additional benefits/costs,
  - feasibility issues.
- Send material on AW options to S. Roe; Forestry options to K. Bickel
- Working with volunteer groups, CCS revise and complete sections on GHG benefits and costs.

# TWG List of Volunteers

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>TWG Volunteers</b>
<b>AFW-1</b>	Manure Digesters/Other Waste Energy Utilization	Mitch Peele, Marion Deerhake, Kraig Westerbeek
<b>AFW-2</b>	Biodiesel Production (incentives for feedstocks and production plants)	John Bonitz, Mitch Peele, [Alex Hobbs, Solar Center, who is not a TWG member was mentioned as a technical resource]
<b>AFW-3</b>	Conservation Tillage/No-Till (carbon sequestration and reduced energy use)	Mitch Peele, Chris Hopkins, David Smith
<b>AFW-4</b>	Preserve Open Space/Agricultural Land	David Smith, Mitch Peele, (Bill Holman)
<b>AFW-5</b>	Agricultural Biomass Feedstocks for Electricity or Steam Production	Mitch Peele, (Dennis Hazel).
<b>AFW-6</b>	Policies to Promote Ethanol Production	John Bonitz, Mitch Peele, Chris Hopkins, Bob Slocum
<b>AFW-7</b>	Forest Protection – Reduced Clearing and Conversion to Nonforest Cover	Chris Hopkins, Bob Hazel, Stephen Whitfield
<b>AFW-8</b>	Afforestation and/or Restoration of Nonforested Lands	Bob Slocum, Chris Hopkins, Bob Hazel, Stephen Whitfield, (Dennis Hazel)
<b>AFW-9</b>	Expanded Use of Forest Biomass Feedstocks for Electricity (fuel switching)	Chris Hopkins, Bob Slocum, Stephen Whitfield, (Dennis Hazel)
<b>AFW-10</b>	Expanded Use of Forest Biomass Feedstocks for Residential, Commercial/Institutional, or Industrial Heating	Chris Hopkins, Bob Slocum, Stephen Whitfield, (Dennis Hazel)
<b>AFW-11</b>	Landfill Methane and Biogas Energy Programs	Jim Hickman, (David Mickey, not a member of the TWG offered himself as a technical resource)
<b>AFW-12</b>	Increased Recycling Infrastructure and Collection	Jim Hickman, Chris Hopkins, (David Mickey, not a member of the TWG offered himself as a technical resource)

# Inventory & Forecast Issues

- Agriculture: no changes recommended by the TWG
- Waste Management: no changes recommended by the TWG
- Forestry: see next slides

# Forestry

- TWG Issues? Emission Sources and Sinks:
  - Forested land = 56% of NC land area
  - Emissions based on carbon stock changes
  - Four carbon accounts:
    - Live and dead standing trees
    - Forest floor and coarse woody debris
    - Soils
    - Wood products and landfills

# Forestry

<b>NC Emissions and Sinks</b>	<b>1990-2000</b>
Live and Dead Standing Trees	-6.9
Forest floor and coarse woody debris	-0.8
Soils	-3.1
Wood products and landfills	-13.0
<b>Total</b>	<b>-23.7</b>

# Forestry

- Inventory (1990 and 2000):
  - Data Sources
    - U.S. Forest Service data from Forest Carbon Model (FORCARB) based on FIA data from years 1987-1997
  - Methods
    - Carbon stock changes, plus estimated flows from soil carbon and harvested wood products – **Information from C. Hopkins shows that mortality included in FIA data**
    - **New data available for wood products?**
- Ref. Case Projections (2001–2020):
  - Held constant at 1987-1997 rates

# Public Input, Announcements

# Next TWG Call

- Agenda
  - Further review of policy option document
  - Identification of significant issues by TWG members
  - Inventory & Forecast Issues
- Time and date: March 8, 1-3 p.m.