



MEETING SUMMARY
IOWA CLIMATE CHANGE ADVISORY COUNCIL
Agriculture, Forestry and Waste Subcommittee
Call #5, March 4, 2008

Attendance:

Subcommittee members: Richard Cruse, Thomas Hadden, Duane Sand, Dean Lemke, David Miller, Peter Thorne, Sen. Rob Hogg (ICCAC and TLU member willing to serve on Subcommittees wherever needed).

Center for Climate Strategies: Steve Roe, Joe Pryor

Iowa Department of Natural Resources: Marnie Stein

Public Attendees: Rick Robinson

Background Documents: (http://www.iaclimatechange.us/Agriculture_Forestry.cfm)

1. Meeting Notice and Agenda
2. PowerPoint for Teleconference
3. Summary of Call #4
4. Straw Proposal Template

Discussion and Key Items:

1. Roll call.
2. CCS reviewed the Agenda for the call.
3. Review Call #4 Summary.
4. Review ICCAC input on proposed policy options
5. Review of Policy Option Template
6. Form Small Groups to Work on Policy Options
7. Next Steps for AFW subcommittee
8. Public Input and Announcements
9. Agenda, Time and Date for Next Meetings

Review of Previous call summary

There were no changes to the Call #4 Summary. The Summary distributed before Call #5 and available on the DNR website.

Review of ICCAC Input

1. Clarification was sought as to why the ICCAC included cellulosic biofuels. CCS identified that the ICCAC wanted the subcommittee to review what are the

appropriate feedstocks, production methods and incentives in this policy. AFW is best placed to proceed with supply-side biofuels assessment, while the TLU SC will look into the demand side aspects as part of their biofuels option.

Straw Proposals

1. A quick overview was given of how the Straw Proposal process will be conducted, and what the purpose is for this meeting.
2. Text has been provided as a starting point to give an example but CCS emphasized the need for the SC to revise to reflect their own vision.
3. Some options may require multiple goals, e.g. AFW-1 water and nutrient.
4. Goals can be as specific or as general as the SC wants, as long as numeric goals that can be quantified in terms of GHG reductions and costs are included.
5. The subcommittee noted that there may be difficulty in determining the percentage for goals. CCS noted that the goals can be adjusted if it is determined that they are too aggressive or not aggressive enough during the next phase of policy development.
6. At least one volunteer per option – outside experts can be involved but SC members are the main contacts. For material provided by experts outside of the SC, the SC volunteer should still represent this as their own contribution for the rest of the SC to review.
7. One page total maximum (or less) for Policy description and Design.
8. ICCAC will review/amend and approve at their next meeting.

AFW–1: Nutrient and Water Management

- a. Subcommittee members noted that determining the rates of change may be more difficult for N₂O compared to CO₂ and a set of relationships or practices are readily applicable to CO₂. For example, there is good research at IA State and CCX has significant information available of where farming practices can reduce CO₂.
- b. NRCS is introducing a tool (Nitrogen Trading Tool) that may be able to help quantify this policy at the farm level. This may be helpful in quantifying the GHG benefits.
- c. Division of Soil Conservation through the Learning Farms Process along with the Soy Bean Association may be able to provide some input.

AFW–2: Wetland Protection and Drainage Management

- a. Focus on wetlands and associated drainage issues, whereas AFW-1 water management covers water outside of the wetland context (e.g. reducing surface run-off and leaching to groundwater).
- b. Dean Lemke has expertise in this area.

AFW–3: Expanded use of Agriculture and Forestry Biomass feedstocks for electricity, heat or steam production

- a. This is supply-side whereas the CRE subcommittee looks at demand-side aspects.
- b. Subcommittee indicated that this option should be framed in terms of acreage or tonnage.

- c. Tonnage may be most appropriate for Ag residues, while acreage could be a more useful goal metric for energy crops.
- d. Could include a component looking into biochar production (with subsequent consideration of the soil carbon benefits).
- e. Remove references to TLU and TWG in second paragraph.

AFW-4: Encourage Large-Scale Manure Management/Methane Capture & Utilization

- a. Could structure this goal in terms of recovering a certain fraction of methane emissions by livestock category or as a fraction of the total herd population or number of farms.
- b. Beef cattle could be an example of where GHG benefits are low and costs are high (due to lower methane emissions at feedlots relative to other livestock sectors).

AFW-5: Land management to promote sequestration benefits

- a. SC volunteers may want to take out references to summer fallow as this is less relevant to Iowa than other states.

AFW-6: Cellulosic Fuel Incentives

- a. While the policy description and design can remain generic in terms of specific liquid fuels, for quantification purposes, the subcommittee will need to specify or make assumptions about the feedstock and technologies to be employed.

AFW-7: Improved on-farm (or first point of purchase) energy use and efficiency

- a. Could include multiple goals looking at electricity and transportation fuels.
- b. Roger Wolfe at the Soy Bean Association could be involved in developing this option.

AFW-8: Front End Waste Management Technologies

- a. Could be framed multiple ways. Generally, waste generation is increasing on a per capita basis nationally. Probably best to specify separate goals for source reduction, recycling, and organics management (e.g. composting).
- b. SC highlighted the potential need to include an assessment of waste to energy programs. CCS noted that this may change the scope of this option or the next but it was at the SC's discretion. ICCAC will need to approve the change. Systematically, waste to energy might best fit under AFW-9, which could then be restructured to speak to "end of life" waste management policies.

AFW-9: Landfill methane energy programs

- a. Utilization and control of methane from landfill sites. Sometimes utilization is not appropriate (if methane is not being produced in sufficient volumes).

Volunteers for Policy Options

<i>Draft Option #</i>	<i>Draft Policy Option Name</i>	<i>Straw Proposal Volunteers (highlighted name is leader)</i>
AFW-1	Nutrient and Water Management	Richard Cruse , Dean Lemke, Dave Miller
AFW-2	Wetlands Protection and Drainage Management	Dean Lemke , Richard Cruse
AFW-3	Expanded Use of Agriculture and Forestry Biomass Feedstocks for Electricity, Heat or Steam Production	Dave Miller , Sen. Robert Hogg, Richard Cruse, Duane Sand
AFW-4	Encourage Large-Scale Manure Management/Methane Capture & Utilization	Dave Miller, Sen. Robert Hogg.
AFW-5	Land Management to Promote Sequestration Benefits	Duane Sand , David Miller (assisted by Rick Robinson), Paul Tauke (nominated because of forestry expertise)
AFW-6	Cellulosic Fuel Incentives	Peter Thorne , Duane Sand (with possible assistance from John Sellers – State Soil Conservation Committee)
AFW-7	Improved On-Farm (or First Point of Purchase) Energy Use and Efficiency	Dave Miller
AFW-8	Front End Waste Management Technologies	Tom Hadden , Peter Thorne
AFW-9	Landfill Methane Energy Programs	Tom Hadden

Additional Comments

1. SC members noted that the public access line was incorrect. This will be corrected for the next AFW SC meeting.

Next steps and agreements:

1. The next Subcommittee meeting (Call #6), is scheduled for **March 18 2006, 9:00 to 10:30 CT**. The purpose of the next call will be to:
 - a. finalize straw proposals for submission to ICCAC for approval; and
 - b. begin the review of the inventory and forecast (if available).
2. Group members who cannot make the call can request a personal update in addition to the meeting notes.
3. SC volunteers should get their Straw Proposal materials to Joe Pryor (joseph.pryor@pechan.com) by **Friday March 14 2008**.
4. The next ICCAC meeting is April 11, 2008.

Thanks to all members for your meaningful contributions and excellent discussion.