

Agriculture, Forestry, and Waste Management Technical Work Group Teleconference Meeting #3

October 20, 2006

Agenda

- TWG member roll call
- Continued Review and Discussion of the Catalog of State Actions
- Prioritization of State Actions
- Continued Review and Discussion of the Montana Emissions Inventory & Forecast
- Agenda, Time and Date for Next Meeting
- Public Input and Announcements

AFW Catalog of State Actions

- Refer to CCS, Catalog of State Climate Change Mitigation Options

AFW Policy Options – Priorities for Analysis

- TWG members will be sent an email ballot for top 10 priorities
- One vote per option (with additional clarifying comments)
- CCS will tally the votes, consolidate the list and provide results to TWG

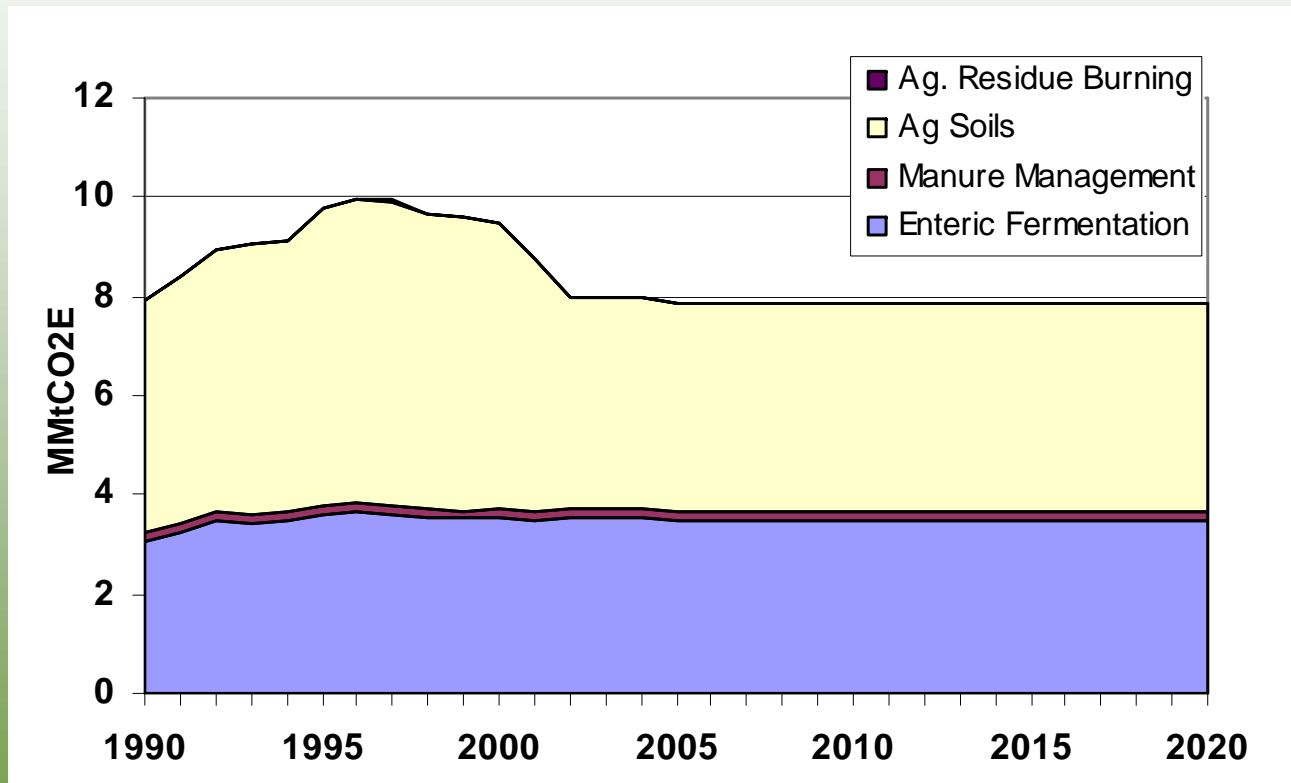
AFW Policy Template

- Refer to “MT AFW Policy Template” document.

Montana GHG Emissions

- Inventory and Reference Case Projections
- Initial analysis by CCS for further discussion and final revision
 - Inventory of historical emissions from 1990 to most recent data year (2000-2004, depending on sector)
 - Projection of emissions to 2020

Agriculture



Agriculture

- Data Sources
 - Crop acreage: USDA
 - Agricultural burning: WRAP
 - Livestock: USDA
- Methods
 - Crops: SGIT emission factors and crop acreage, SGIT fertilizer consumption
 - Livestock: SGIT emission factors and livestock populations

Agriculture

- Key Assumptions
 - No growth or significant change in crop production for the future
- Key Uncertainties
 - See key assumption above

Forestry

| Carbon Pool | MMtCO₂e/yr |
|---|------------------------------|
| Live Trees | -9.0 |
| Standing Dead Trees | -5.0 |
| Live Understory | -1.2 |
| Down and Dead Trees | -0.6 |
| Forest Floor | -8.8 |
| Soils | -11.8 |
| Harvested Wood Products & Landfilled Forestry Waste | -13.3 |
| | |
| | Total |
| | -49.7 |

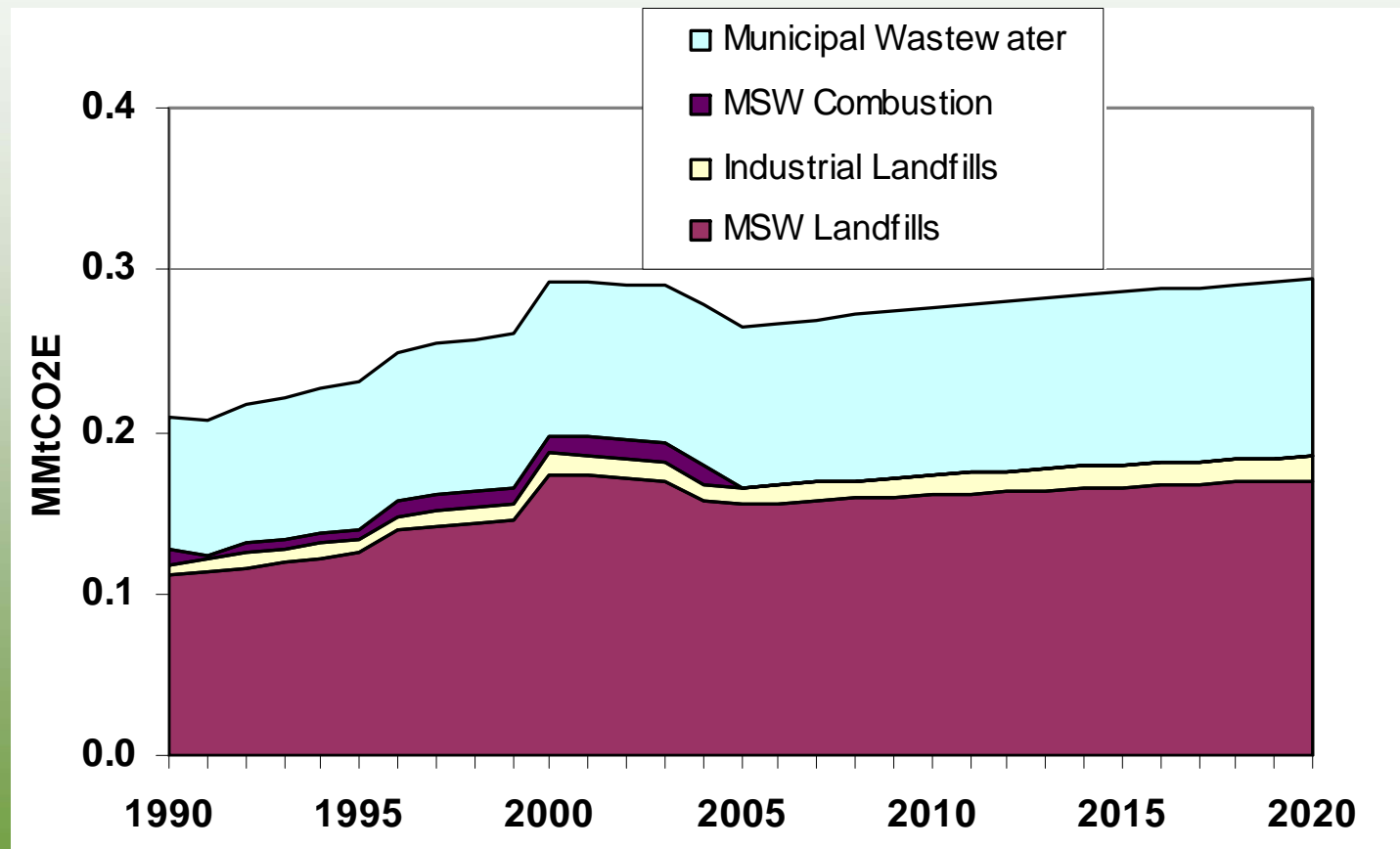
Forestry

- Data Sources
 - Forest Carbon: USFS Forest Inventory & Analysis data from 2 cycles (1988-1996; 2004)
 - Wood Products & Forestry Waste: USFS
 - Wildfire/Prescribed Burn Emissions: WRAP
- Methods
 - Forestry: USFS FORCARB2 carbon stock change model provides carbon pools for each FIA cycle
 - Flux calculated for each pool based on difference in time between FIA cycles.

Forestry

- Key Assumptions
 - 1988-2004 period representative of current and future forest productivity
- Key Uncertainties
 - Differences in methodology between first and second FIA cycle
 - Early cycles focused on timberlands, reserved lands not well covered;
 - Change in forest definition for marginal lands (10% cover to 5% cover definition)

Waste Management



Waste Management

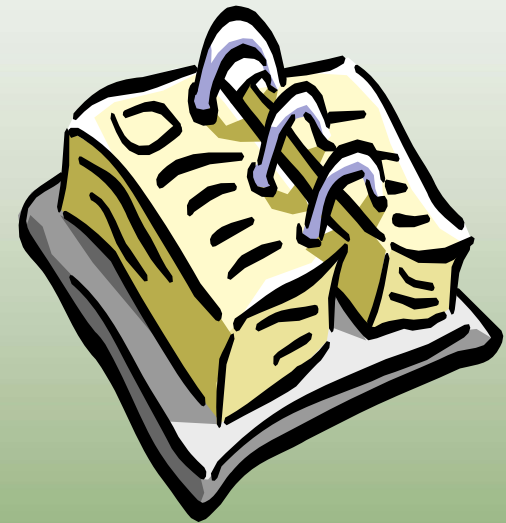
- Data sources
 - MSW landfills: EPA Landfill Methane Outreach Program; MTDEQ
 - Municipal wastewater treatment: SGIT parameters and emission factors, state population
 - Industrial wastewater treatment: SGIT parameters & emission factors; MTDEQ flows
- Methods
 - SGIT emission factors and activity data.

Waste Management

- Key Assumptions
 - SGIT defaults for wastewater treatment are representative for MT
- Key Uncertainties
 - Need to incorporate MTDEQ data on MSW landfills and industrial wastewater treatment

Next TWG Call

- Agenda:
 - Discuss voting on potential priorities for analysis of policy options
 - Review the Montana emissions inventory and projection if/as needed
- Date/Time?



Public Input, Announcements