



Governor's Action Team on Energy and Climate Change
State of Florida

Governor's Action Team for Energy and
Climate Change
Phase II Process

*Agriculture, Forestry, and Waste
Technical Working Group (TWG)*

Meeting #4

May 20, 2008

May 20, 2008

Agenda

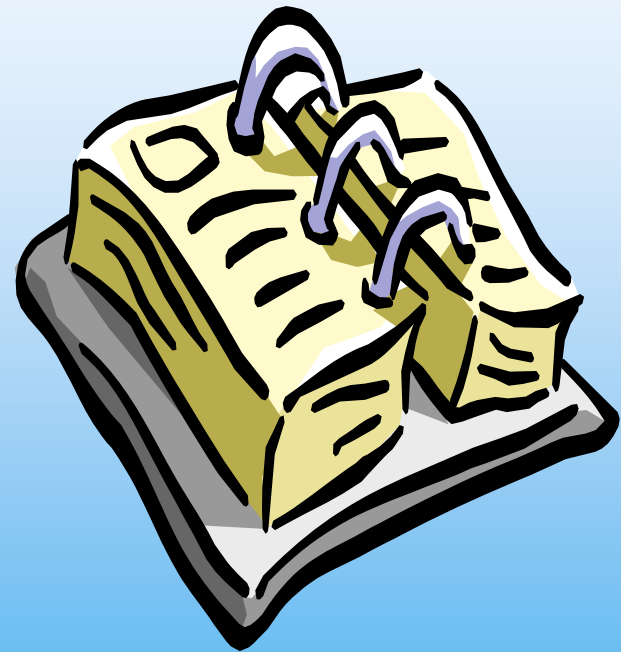
1. Introductions
2. Meeting Purpose and Goals
3. Approval of Summary of Prior Call/ Meeting
4. Discussion of FL GHG Inventory and Forecast
5. Review of Next Steps
6. Agenda, Date and Time for Next Meetings
7. Public Comments
8. Announcements

Approval of Call #4 Summary

- Review draft meeting summary for AFW TWG meeting #4
- Consider any corrections or additions to meeting summary
- Accept meeting summary with agreed upon changes

Next Action Team Meeting

- Agenda:
 - Review and approve priority options for development and analysis
 - Review FL emissions inventory and projection
 - Review progress on cap-and-trade design issues
 - Review progress of Adaptation TWG
- May 29, 2008, Tallahassee



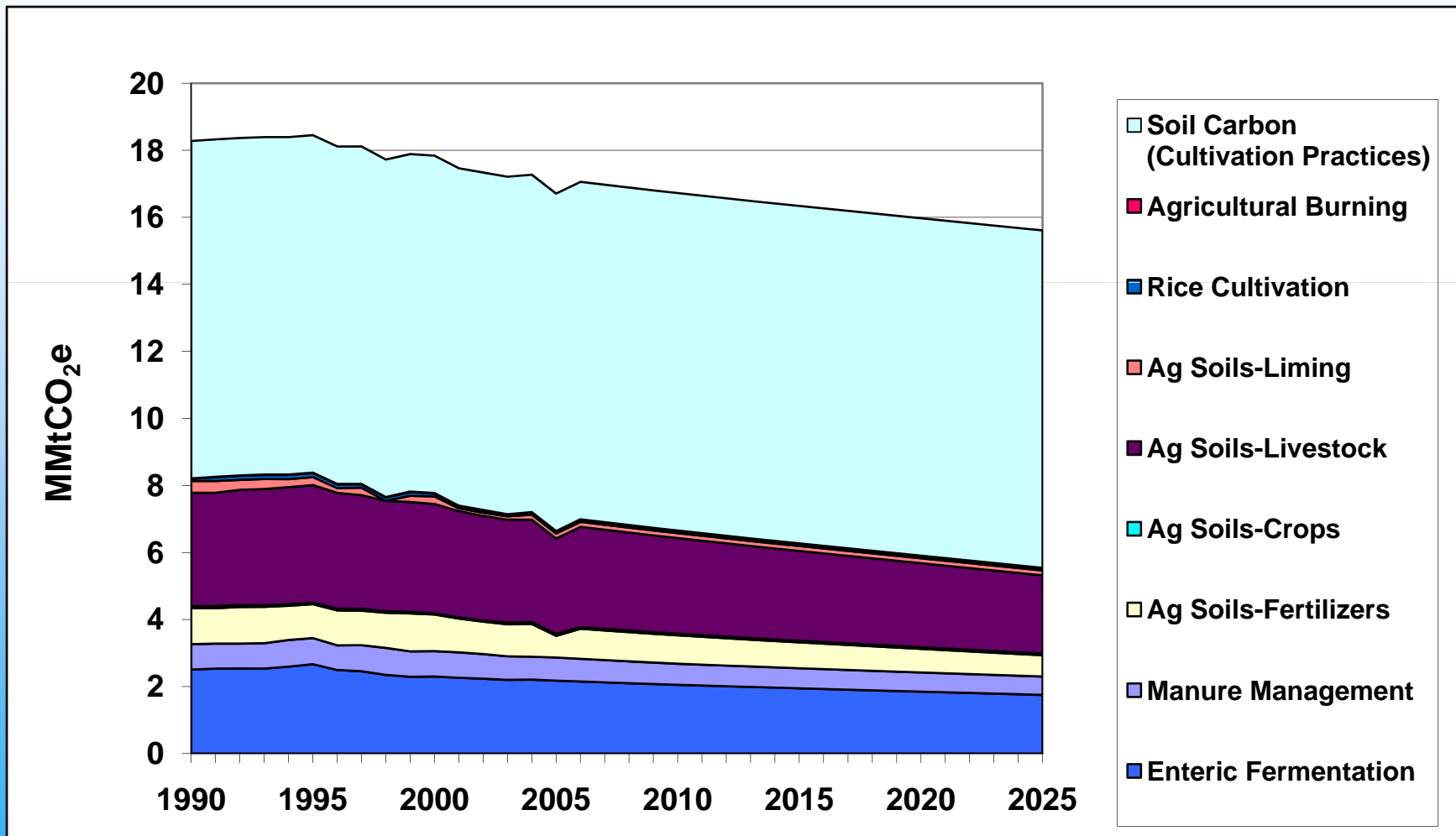
Next Steps

- Present TWG recommended draft Priorities for Analysis from the Catalog
- After FL Climate Action Team meeting #3 begin development of Detailed Policy Options
- Continue discussion of FL GHG Inventory-Forecast

GHG Inventory and Forecast; Preliminary Results for Agriculture, Forestry, and Waste Sectors

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Agriculture



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Agriculture

- Data sources
 - Crop production: USDA/NASS
 - Livestock: USDA/NASS
 - Fertilizer: Florida Department of Agriculture and Consumer Services; Fertilizer Institute
- Methods
 - Crops: SGIT emission factors and crop production data
 - Livestock: SGIT emission factors and livestock populations
 - Fertilizer: SGIT fertilizer consumption
 - Livestock population projections based on Food and Agricultural Policy Research Institute (FAPRI) & historical growth
 - Projections for other categories based on historical growth trends

Agriculture

- Key Assumptions
 - Future growth for agricultural soils will follow historical trends
 - Livestock population growth will follow state-level FAPRI projections & historical trends
- Key Uncertainties
 - Manure management emission factors derived from limited data sets
 - Livestock numbers based on point estimates for each year to represent populations that fluctuate throughout the year
 - Projection assumptions

Forestry

Forestry and Land Use Flux and Reference Case Projections (MMtCO₂e)

	1990	2000	2005	2010	2020	2025
Forested Landscape (excluding soil carbon)	0.96	-24.5	-24.5	-24.5	-24.5	-24.5
Urban Forestry and Land Use	-14.4	-5.65	-6.23	-6.23	-6.23	-6.23
Forest Wildfires	1.35	1.15	0.16	0.16	0.16	0.16
Sector Total	-12.1	-29.0	-30.6	-30.6	-30.6	-30.6

Based on national sources (except wildfire data).
Working to get state-specific data.

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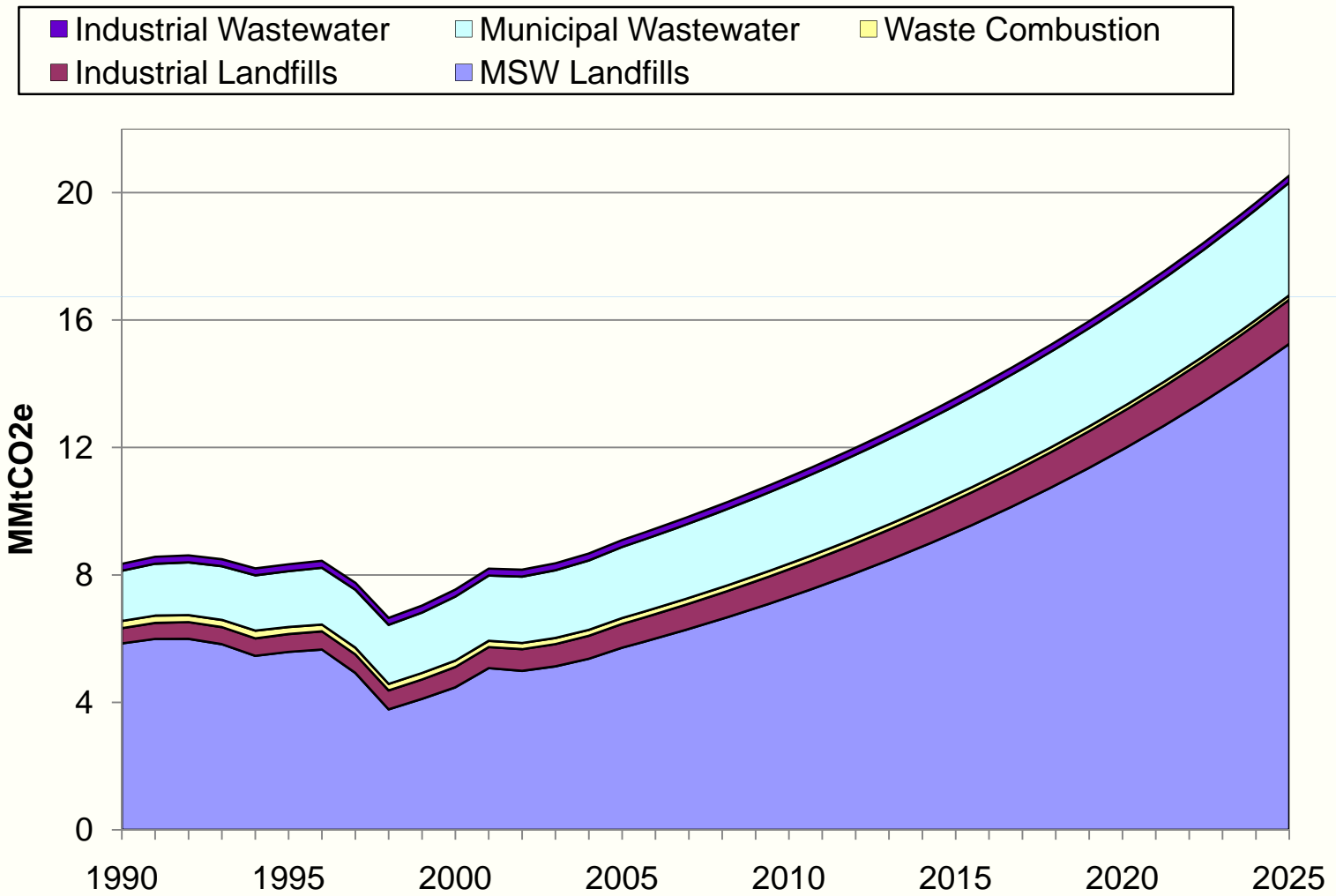
Forestry

- Data sources
 - USFS carbon stock data for 2001-2005 based on FORCARB2 model
 - USFS also provides modeled estimates for harvested wood products
- Methods
 - Forestry: USFS FORCARB2 carbon stock change model provides carbon pools for each inventory cycle
 - Flux calculated for each pool based on difference in time between inventory cycles

Forestry

- Key Assumptions
 - 1980-1993 and 1993-2004 carbon fluxes represent forest carbon flux prior to 2005
 - Current flux estimates are based on 2005 sample year stock
 - For 2005-2025 projections forest area and carbon densities assumed to remain at 2005 levels
 - Average wildfire acres burned from 1990-2005 assumed to calculate historic emissions. Projected emissions held constant at 2005 levels.
- Key Uncertainties
 - High level of uncertainty associated with soil carbon pool estimates
 - Methodological differences in forest inventory cycles can produce different estimates of forest area and carbon density
 - Effects of future development on forested acreage

Waste



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Waste Management

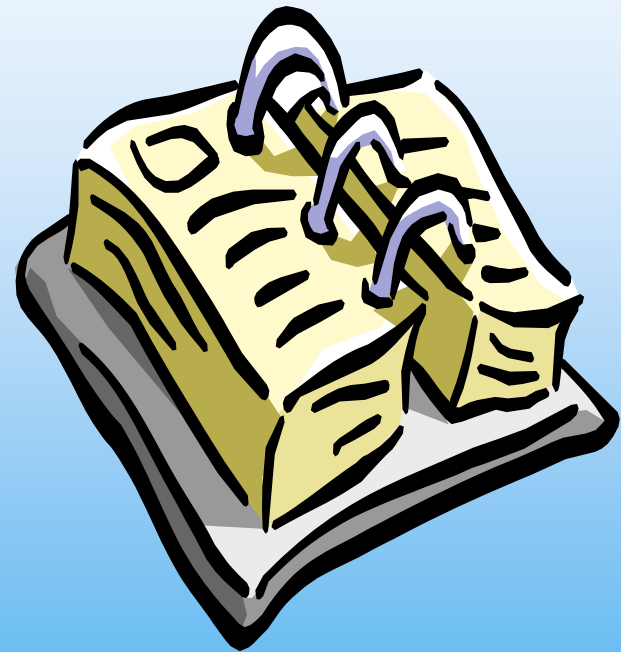
- Data sources
 - EPA Landfill Methane Outreach Program Database
 - FL DEP combustion/incineration data (note: waste-to-energy combustion inventoried under Electricity Sector appenix)
 - State population and SIT default data for municipal wastewater treatment and residential open burning
- Methods
 - SIT with data sources above and corresponding growth rates

Waste Management

- Key Assumptions
 - Growth Rates
 - based on historic emissions growth
- Key Uncertainties
 - Do not account for future controls applied to landfills due to triggering requirements
 - Industrial wastewater
 - Default data not available for fruits & vegetables and pulp & paper

Next TWG Meeting

- Upcoming Calls:
 - Tuesday, June 10th , 10 a.m. – 12 p.m.
 - Tuesday, June 24th, 10 a.m. – 12 p.m.
 - Tuesday, July 15th, 10 a.m. – 12 p.m.
 - Tuesday, July 29th, 10 a.m. – 12 p.m.
 - Tuesday, August 12th, 10 a.m. – 12 p.m.
 - Tuesday, August 26th, 10 a.m. – 12 p.m.



Public Input, Announcements