

The State of the Carbon Cycle Report

- **Executive Summary**
- **Chapter 1. Introduction to the Report's Purpose, Scope, and Structure: “What is the carbon cycle and why should we care?”**
- **Part I: The Carbon Cycle in North America**
- **Part II: Energy, Industry and Waste Management Activities**
- **Part III: Land and Water Systems**



Part II Ch. Outline

- Emissions inventory
- Drivers and Trends
- Mitigation options (near 2015-25? and long term 2050?)
 - C reduction potential (key assumptions)
 - Cost (per ton?)—where available and credible; key assumptions
 - Secondary effects
 - R&D priorities



Part II: Energy, Industry and Waste Management Activities

Overview of Part III: Energy, Industry, and Waste Management Activities: An Introduction to CO2 Emissions from Fossil Fuels

-- Gregg Marland

•Chapter 6: Energy Extraction and Conversion

-- Gregg Marland

•Chapter 7: Transportation

-- David Greene

•Chapter 8: Industry and Waste Management

-- Mark Jaccard

•Chapter 9: Buildings

-- James McMahon



PART III: LAND AND WATER SYSTEMS

- **Overview of Part III: Title To Be Determined**
 - Skee Houghton
- **Chapter 10. Agriculture, Grassland, Shrubland and Arid Lands**
 - Keith Paustian and Rich Conant
- **Chapter 11. Forests**
 - Mark Johnston, Jennifer Jenkins, Richard Birdsey, Elisabeth Huber-Sannwald
 - A. Boreal Forests
 - B. Temperate Forests
 - C. Tropical Forests
- **Chapter 12. Carbon Cycle in Permafrost Regions (i.e., Boreal, Subarctic and Arctic Areas) of North America**
 - Charles Tarnocai
- **Chapter 13. Non-Permafrost Wetlands**
 - Scott Bridgham
- **Chapter 14. Human Settlements and the North American Carbon Cycle**
 - Diane Pataki
- **Chapter 15. Aquatic Carbon, Coastal Management, and Ocean Basins**
 - Francisco Chavez and Taro Takahashi

