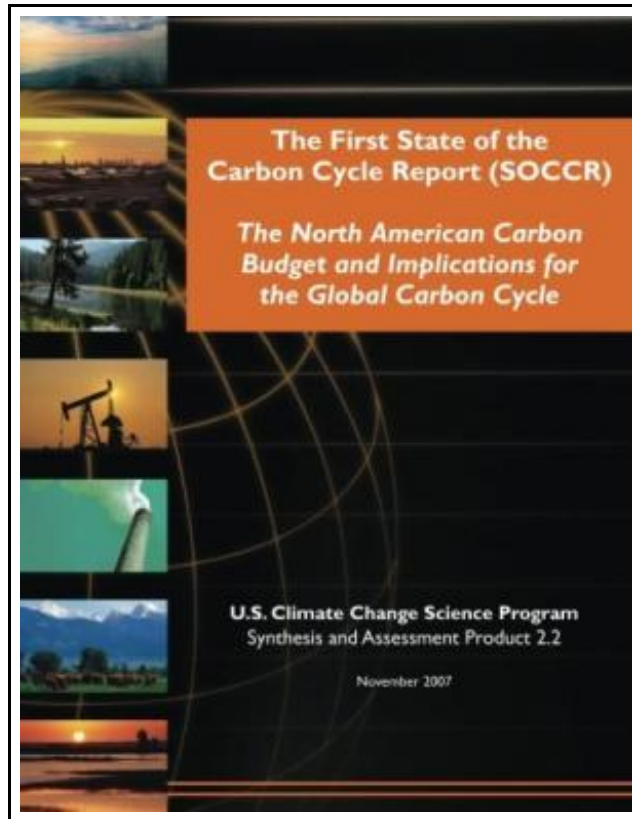


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Createspace Independent Publishing Platform, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.North America is currently a net source of carbon dioxide to the atmosphere, contributing to the global buildup of greenhouse gases in the atmosphere and associated changes in the Earth s climate. In 2003, North America emitted nearly two billion metric tons of carbon to the atmosphere as carbon dioxide. North America s fossil-fuel emissions in 2003 were 27 of global emissions. The combustion of fossil fuels for commercial energy (primarily electricity) is the single largest contributor, accounting for approximately 42 of North American fossil emissions in 2003. Transportation is the second largest, accounting for 31 of total emissions. In 2003, growing vegetation in North America removed approximately 500 million tons of carbon per year ( 50 ) from the atmosphere and stored it as plant material and soil organic matter. This land sink is equivalent to approximately 30 of the fossil-fuel emissions from North America. Approximately 50 of North America s terrestrial sink is due to the regrowth of forests in the United States on former agricultural land that was last cultivated decades ago, and on timberland recovering from harvest. The contribution of forest regrowth is expected to decline as the maturing forests grow more slowly and take up less carbon dioxide from the atmosphere. But, how regrowing forests and other sinks will respond to changes in climate and carbon dioxide concentration in the atmosphere is highly uncertain. The large difference between current sources and sinks and the expectation that the difference could become larger if the growth of fossil-fuel emissions continues and land sinks decline suggest that addressing imbalances in the North American carbon budget will likely require actions focused on reducing fossil-fuel emissions. Options to enhance sinks...



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