


## Fraser Public Advisory Group (Fraser PAG)

### Global Ecological Cycles Meeting

Fraser PAG November 14, 2006  Teal-Jones Group

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## Global Ecological Cycles Overview



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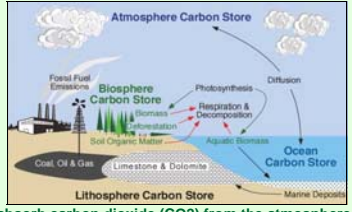
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## Global Ecological Cycles Overview

### The Carbon Cycle



Plants absorb carbon dioxide (CO<sub>2</sub>) from the atmosphere during photosynthesis, and release CO<sub>2</sub> back in to the atmosphere during respiration or decomposition. All forests collect CO<sub>2</sub> and store it in the form of wood.

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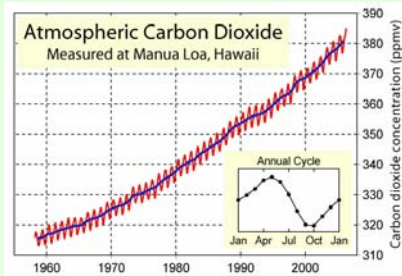
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## Global Ecological Cycles Overview

How important are forests?



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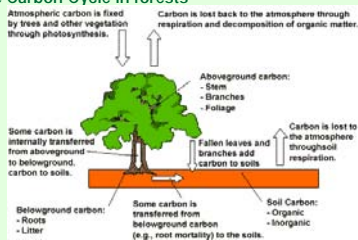
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## Global Ecological Cycles Overview

The Carbon Cycle in forests



Forests can accumulate carbon in the form of plant tissues and soil matter. Carbon from wood can be stored as wood products while new forests take in more carbon.

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## The DFA & Global Ecological Cycles

Carbon sequestering and storage are not values which are actively or directly managed within the DFA. The following management activities have influence over, or impact on, the carbon cycle:

- Forest Reserves
- Maintaining or Improving Tree Growth
- Deforestation ( permanent loss of productive forest land)
- Harvest Methods
- Protection of Forests (health and fire)
- Management of wood waste and fire hazard
- Maintaining healthy soils
- Longevity of forest products (lumber vrs. Pulp)
- Use of fossil fuels

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## CSA Guidelines

**CCFM SFM Criteria 4: Forest Ecosystem Contributions to Global Ecological Cycles**  
*Maintain forest conditions and management activities that contribute to the health of global ecological cycles.*

**CSA SFM Element 4.1 Carbon Uptake & Storage**  
*Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.*

**CSA SFM Element 4.2 Forest Land Conversion**  
*Protect forestlands from deforestation or conversion to non-forests.*



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## The DFA & Global Ecological Cycles

**CSA SFM Element 4.1 Carbon Uptake & Storage**  
*Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.*

Potential Values?

- Maintenance of Natural ecological cycles?
- prompt salvage of damaged timber (harvest and replant)?
- slash management (distribute vs. pile/burn)?
- Maintenance of soil productivity?
- Others?



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## The DFA & Global Ecological Cycles

**CSA SFM Element 4.2 Forest Land Conversion**  
*Protect forestlands from deforestation or conversion to non-forests.*

Potential Values?

- Maintain productive forest land (vs. roads etc)?
- Rehabilitate and reforest unproductive land?
- Others?



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### Next Meeting

Date	December 12, 2006
Time	4:30-7:30
Location	Pantry Restaurant Chilliwack

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### Thank you...

The Teal Jones Group  
Environmental Department

Contact Information:  
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Cell (250) 203-0111

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