First large-scale assessment of the amount of DWD in strict French forest reserves

Rouyn-Noranda, QC, Canada
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International Symposium on Deadwood Dynamics and ecological services in Forest Ecosystems
First large-scale assessment of the amount of DWD in strict French forest reserves

1. Context
2. Aim of the study
3. Coordination
4. Sampling
5. Preliminary results
6. Outlooks
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1. Context

✓ DWD : an important component
✓ Growing use of the naturalness concept
✓ DWD dynamics unknown in European temperate forests
✓ Demand of managers of forest reserves
✓ First implementation in 2005
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2. Aim of the study

- Monitor stand dynamics (living and dead wood)
- Participate in assessing the « state of conservation »
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3. Coordination

✓ Partnership
✓ Training
✓ Data collection
✓ Data analysis

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4. Sampling

<table>
<thead>
<tr>
<th>Category</th>
<th>Diameter Range</th>
<th>Sampling Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living</td>
<td>DBH ≥ 30 cm</td>
<td>Relascopic angle</td>
</tr>
<tr>
<td></td>
<td>7.5 ≤ DBH &lt; 30 cm</td>
<td>Circle 10 m radius</td>
</tr>
<tr>
<td></td>
<td>Diam &lt; 7.5 cm</td>
<td>3 circles 1.5 m radius</td>
</tr>
<tr>
<td>Standing Deadwood</td>
<td>DBH ≥ 30 cm</td>
<td>Circle 20 m radius</td>
</tr>
<tr>
<td></td>
<td>7.5 ≤ DBH &lt; 30 cm</td>
<td>Circle 10 m radius</td>
</tr>
<tr>
<td>Fallen Deadwood</td>
<td>5 ≤ Diam &lt; 30 cm</td>
<td>Line transect</td>
</tr>
<tr>
<td></td>
<td>Diam ≥ 30 cm</td>
<td>Circle 20 m radius</td>
</tr>
</tbody>
</table>
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5. Preliminary results

Evolution of the implementation

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Protocol implementation in metropolitan France

Conception: Alexandre Touzé, Nicolas Debaive, RNF, 2011
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5. Preliminary results

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5. Preliminary results

![Distribution of deadwood in French forest reserves](image)

- **Fallen DWD**
  - Diam < 30 cm: 20%
  - Diam ≥ 30 cm: 10%

- **Standing DWD**
  - Diam < 30 cm: 20%
  - Diam ≥ 30 cm: 10%

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6. Prospects

✓ Pursuit of the implementation
✓ Prospective analysis
✓ Second campaign
✓ Partnerships
Thank you for your attention