


National Wood  
Resource and Product  
Balances workshop

# FOREST BALANCE IN UNECE REGION

# Forest balance is a way to check and improve the accuracy of basic estimates

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**Forest balance** is a comparison between the **growing stock** volume at the *beginning* and *end* of a *balance period* and the **gross increment and drain** during that period.



the basic  
estimates of  
forestry  
production

increase the  
effective use of  
timber growth in  
the forest

commence  
policies and  
measures  
concerning  
increment

control timber  
utilization on  
the basis of  
sustained yield



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# Forest Balance

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## *Forest Balance*

$$= \frac{\text{Growing stock change} - \text{Increment\_Drain change}}{\text{Growing stock change}} \times 100\%$$

### Growing stock change =

*Growing stock at the end of the period  
- Growing stock at the beginning of the  
period*

### Increment Drain change =

*Gross annual increment - Natural losses  
- (Fellings - Fellings of natural losses)*

## Gross (annual) increment

- *Average annual volume of increment over the reference period of all trees measured to minimum diameters as defined for “Growing stock”.*

## Net(annual) increment

- *Average annual volume of gross increment over the given reference period less that of natural losses on all trees, measured to minimum diameters as defined for “Growing stock”.*

## *Natural (annual) losses*

- *Average annual losses to the growing stock during the given reference period, measured to minimum diameters as defined for “Growing stock” , due to mortality from causes other than cutting by man.*

# How can reporting be improved?

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### Comment

- *Comment on the construction and relevance of this balance;*

### Analyse data

- *Analyse correctness and completeness of this data, feel free to complete or correct the balance, if relevant data is available;*

### Analyse reasons

- *For the balance, analyse reasons for differences between values of “Growing stock change” and “Increment\_Fellings change” for your country, try to provide values for factors affecting these differences;*

### National Monitoring

- *In the light of the above analysis, consider if and what in your national monitoring systems should be changed to make it complete and consistent.*



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**70 YEARS WORKING TOGETHER IN THE SERVICE OF FORESTS AND PEOPLE**

# **Thank you!**

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