



Model for *Fagus sylvatica* Spain

Model

Fsylvatica Espana (Spain)

Static individual tree model for *Fagus sylvatica* in Spain



Model description

- Species: *Fagus sylvatica* L.
- Species SFNI (Spanish Forest National Inventory) code: 71
- Geographical area: -
- Geographical area (administrative): -

Model requirements and recommended use

- Initial inventory requirements: age and dominant height of the plot; expan and dbh of the trees
- Geographical area: , closer places and another places with similar characteristics (assuming differences)
- Stand type: monospecific stands
- Execution recommended time: - years executions (survival, growth and ingrowth equations developed by using that criteria)
- Site Index calculated to xx age

Figure 1: *Fagus sylvatica*



Figure 2: Details of *Fagus sylvatica*

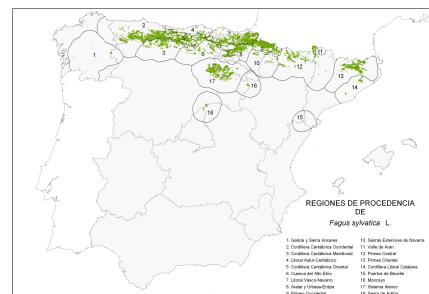


Figure 3: Provenance regions of *Fagus sylvatica* in Spain

Bibliography

SIMANFOR model recommended citation:

SIMANFOR (year). Individual tree static model for european beech (*Fagus sylvatica*) in Spain. <https://www.simanfor.es/>

Model components:

- **General calculations: bal, g, slenderness, normal circumference:**

Standard equations

- **Generalized height-diameter equation:**

Bartelink HH (1997). Allometric relationships for biomass and leaf area of beech (*Fagus sylvatica* L). In Annales des sciences forestières (Vol. 54, No. 1, pp. 39-50). EDP Sciences

- **Taper equations over bark (volume):**

Rodríguez F, Lizarralde I (2015). Comparison of stem taper equations for eight major tree species in the Spanish Plateau. Forest systems, 24(3), 2

- **Biomass equations:**

Ruiz-Peinado R, Montero G, del Río M (2012). Biomass models to estimate carbon stocks for hardwood tree species. Forest systems, 21(1), 42-52

- **Technological wood uses information:**

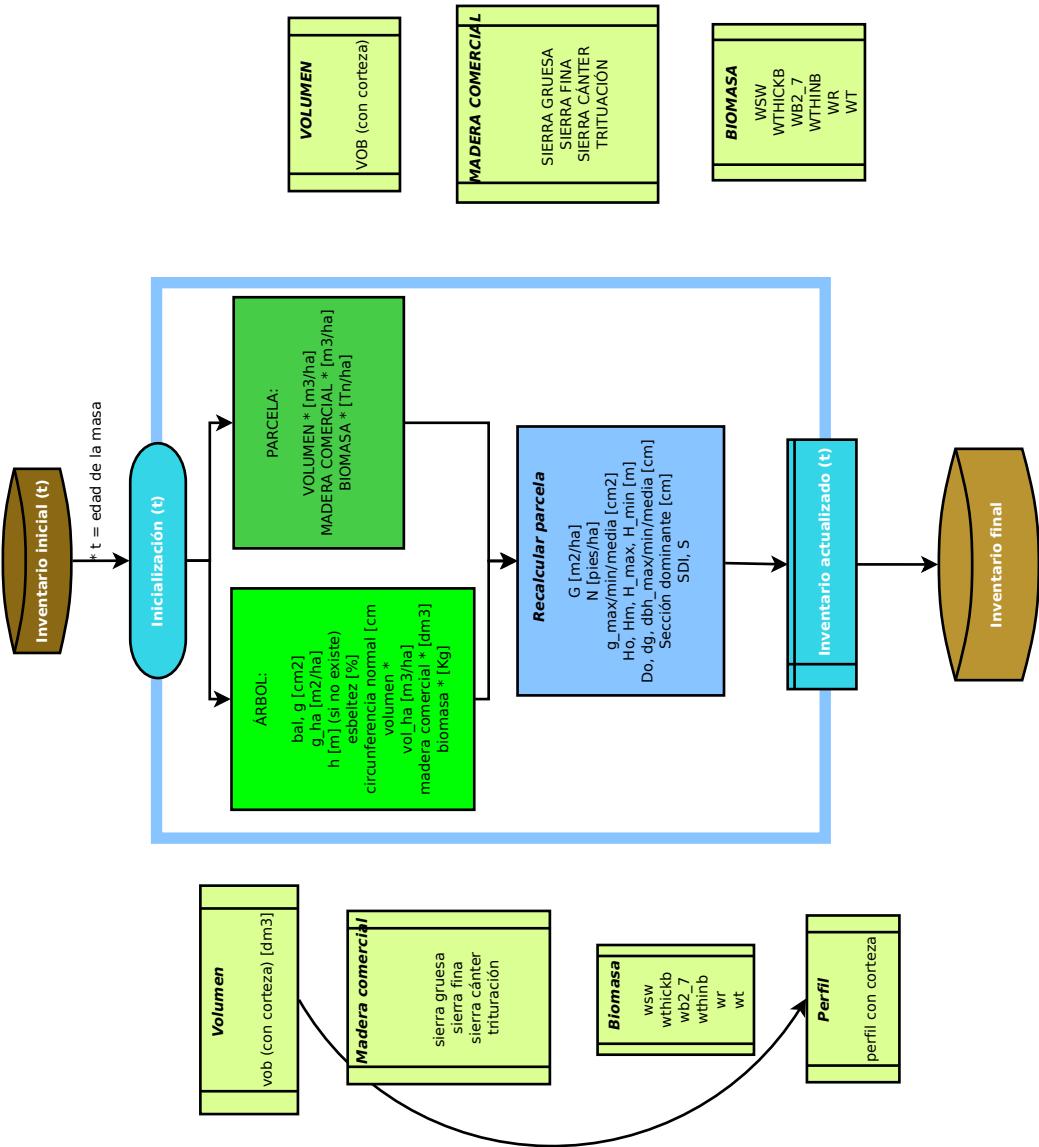
Rodríguez F (2009). Cuantificación de productos forestales en la planificación forestal: Análisis de casos con cubiFOR. In Congresos Forestales

- **Value for Reineke Index equation:**

Standard

Figures:

- **Figure 1:** by Gunnar Creutz - Own work, CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?curid=38097292>
- **Figure 2:** by Public Domain, <https://commons.wikimedia.org/w/index.php?curid=8779>
- **Figure 3:** extracted from MAPA



Contacts

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Related information

SIMANFOR - Support System for the Simulation of Sustainable Forest Management Alternatives. Website (<https://www.simanfor.es/>) and GitHub repository <https://github.com/simanfor>

iuFOR - University Institute for Sustainable Forest Management. Website: <http://sostenible.palencia.uva.es/> y <https://iufor.uva.es/>

ETSIIAA Palencia - Higher Technical School of Agricultural Engineering of Palencia. Website: <http://etsiiaa.uva.es/>

UVa - University of Valladolid. Website <https://www.uva.es>

