

# SIMANF{OR}

## Model for *Quercus petraea* North Palencia (Spain)

### Model

Qpetraea\_pal\_v01

### Model description

- Especie: *Quercus petraea* (Matt.), Liebl..
- Spanish Forest Inventory (SFI) code: 42
- Geographical area: North Palencia
- Geographical area (administrative): Cervera de Pisuerga (Palencia)

### Model type

- Category: calculation without growth
- Model level: distance independent individual tree model
- Reproduction methods: seedling forest
- Stand structure: even-aged stands
- Species composition: mixed stands (*Quercus petraea*, *Quercus robur* and *Quercus pyrenaica*)
- Forest origin: natural

### Model requirements and recommended use

- Initial inventory requirements: age and dominant height of the plot; expan and dbh of the trees
- Geographical area: north Palencia, closer places and another places with similar characteristics (assuming differences)
- Stand type: mixed stands



Figure 1: *Quercus petraea*



Figure 2: Details of *Quercus petraea*

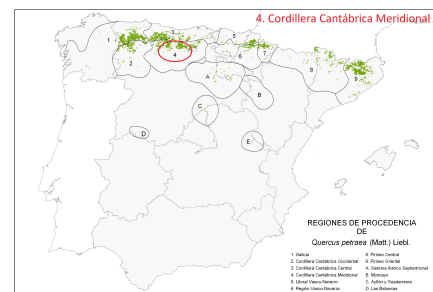


Figure 3: Provenance regions of *Quercus petraea* in Spain

- Execution recommended time: xx years executions (survival, growth and ingrowth equations developed by using that criteria)
- Site Index is defined as top height at a base age of xx years

## Bibliography

### Complete SIMANFOR model recommended citation):

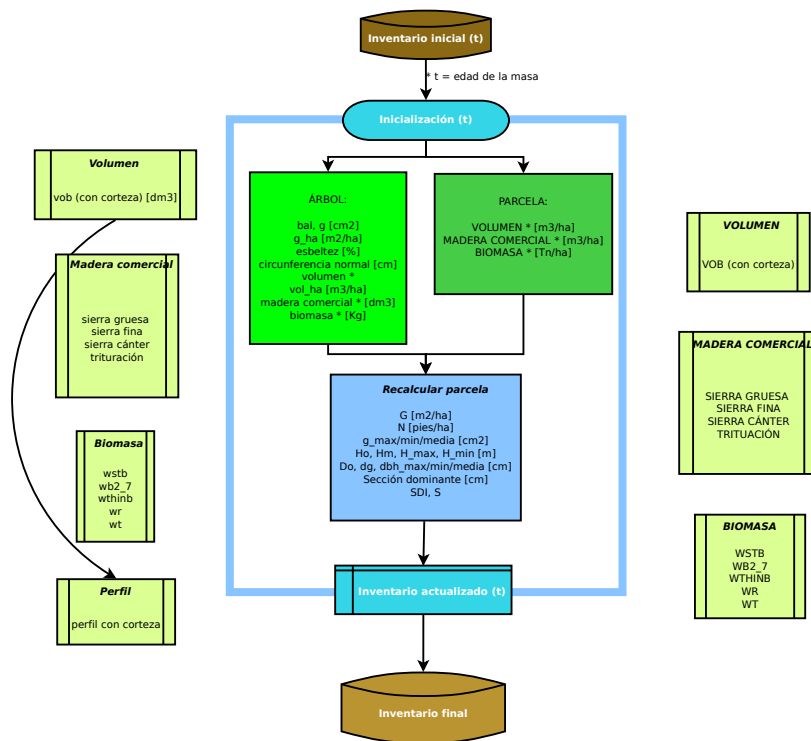
SIMANFOR (2022). Individual tree static model for sessile oak (*Quercus petraea*) in North Palencia (Spain).

### Model components:

- **General calculations: bal, g, slenderness, normal circumference:**  
Standard equations
- **Taper equations over bark (volume):**  
Manrique JM, Bravo F, del Peso C, Herrero C, Rodriguez F (2017). Ecuaciones de perfil para las especies de roble albar (*Quercus petraea* (Matt.) Liebl.) y rebollo (*Quercus pyrenaica* Willd) en la comarca de la “Castillería” en el Norte de la provincia de Palencia. En: VII Congreso Forestal Español
- **Biomass equations:**  
Manrique JM, Bravo F, del Peso C, Herrero C (2018). Ecuaciones de biomasa para roble albar (*Quercus petraea* (Matt.) Liebl.) y rebollo (*Quercus pyrenaica* Willd) en la comarca de la “Castillería” en el Norte de la Provincia de Palencia. En: 7º Congreso Forestal Español, SECF
- **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:** licensed under De Jean-Pol GRANDMONT - œuvre personnelle réalisée avec un boitier Canon EOS 350D équipé de l'objectif Canon Zoom Lens EF-S 18-55mm F3,5-5,6 II, CC BY 2.5, <https://commons.wikimedia.org/w/index.php?curid=2192034>
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- **Figure 3:** extracted from MAPA



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## Interest Links

**SIMANFOR** - Support system for simulating Sustainable Forest Management Alternatives. Accessed 11 May 2021, in <https://www.simanfor.es/>

**iuFOR** - Sustainable Forest Management Research Institute UVa-INIA. Accessed 11 May 2021, in <http://sostenible.palencia.uva.es/>

**ETSIIAA Palencia** - Higher Technical School of Agricultural Engineering of Palencia. Accessed 11 May 2021, in <http://etsiiaa.uva.es/>

**UVa** - University of Valladolid. Accessed 11 May 2021, in <https://www.uva.es>

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