

Table S1. Characteristics of the Spanish National Forest Inventory (SNFI) plots (Crecente-Campo *et al.*, 2010).

Plot radius (m)	Minimum <i>d</i> inventoried (cm)	<i>p_{ij}</i>	1/<i>p_{ij}</i>	<i>Fexp_{ij}</i>
5	7.5	0.04	25	127.3
10	12.5	0.16	6.25	31.83
15	22.5	0.36	2.778	14.15
25	42.5	1	1	5.093

p_{ij}: selection probability of the *i*th tree in the *j*th plot, depending on its diameter, relative to that of the largest radius plot. *Fexp_{ij}*: hectare expansion factor (inverse of the selection probability on a per hectare basis).

Table S2. Descriptive statistics of main variables for the stands analysed.

Stand variable	Stratum					
	1	2	3	21	24	27
N (trees·ha ⁻¹)	759.8	490.4	282.4	719.8	640.3	439.1
G (m ² ·ha ⁻¹)	23.5	14.2	7.2	14.6	18.0	8.3
dg (cm)	19.8	19.2	18.0	16.1	18.9	15.5
V (m ³ ·ha ⁻¹)	126.6	72.8	34.2	74.2	111.9	40.7
V_{sc} (m ³ ·ha ⁻¹)	107.3	61.0	28.7	64.1	97.3	34.1
IAVC (m ³ ·ha ⁻¹ ·year ⁻¹)	4.0	2.4	1.1	2.8	3.9	1.2
VLE (m ³ ·ha ⁻¹)	13.8	8.6	4.5	6.3	9.5	5.4
Total surface (ha)	67,342.22	19,485.20	7,779.23	13,520.57	5,631.78	2,223.00

N : density. G : basal area. dg : quadratic mean diameter. V : total volume with bark. V_{sc} : total volume without bark.

IAVC: annual increment in volume with bark. VLE: firewood volume.

Table S3. Forest types under study in the six strata: species composition and proportion.

Stratum	Autochthonous species composition			
	Timber species	(%G)	Non-timber species	(%G)
1	<i>Quercus robur</i>	13.56	<i>Ilex aquifolium</i>	1.65
	<i>Quercus petraea</i>	7.17	<i>Arbutus unedo</i>	0.75
	<i>Quercus pyrenaica</i>	4.24	<i>Corylus avellana</i>	4.59
	<i>Quercus ilex</i>	0.51	<i>Laurus nobilis</i>	0.41
	<i>Alnus glutinosa</i>	4.30	<i>Crataegus monogyna</i>	0.97
	<i>Fagus sylvatica</i>	10.72	<i>Salix atrocinerea</i>	1.02
	<i>Castanea sativa</i>	30.02	<i>Sorbus aucuparia</i>	0.57
	<i>Fraxinus excelsior</i>	2.22	<i>Salix caprea</i>	0.83
	<i>Ulmus glabra</i>	0.32		
	<i>Betula pubescens</i>	9.13		
	<i>Tilia platyphyllos</i>	1.54		
	<i>Prunus avium</i>	1.28		
	<i>Acer pseudoplatanus</i>	1.84		
2	<i>Quercus robur</i>	13.21	<i>Ilex aquifolium</i>	3.05
	<i>Quercus petraea</i>	6.51	<i>Arbutus unedo</i>	1.21
	<i>Quercus pyrenaica</i>	2.52	<i>Corylus avellana</i>	1.83
	<i>Quercus ilex</i>	0.30	<i>Laurus nobilis</i>	1.26
	<i>Alnus glutinosa</i>	4.61	<i>Crataegus monogyna</i>	1.83
	<i>Fagus sylvatica</i>	11.13	<i>Salix atrocinerea</i>	3.21
	<i>Castanea sativa</i>	23.77	<i>Sorbus aucuparia</i>	1.22
	<i>Fraxinus excelsior</i>	3.79	<i>Salix caprea</i>	1.55
	<i>Ulmus glabra</i>	0.99		
	<i>Betula pubescens</i>	8.77		
	<i>Tilia platyphyllos</i>	2.04		
	<i>Prunus avium</i>	1.65		
	<i>Acer pseudoplatanus</i>	2.77		
3	<i>Quercus robur</i>	11.51	<i>Ilex aquifolium</i>	4.92
	<i>Quercus petraea</i>	4.35	<i>Arbutus unedo</i>	0.38
	<i>Quercus pyrenaica</i>	2.69	<i>Corylus avellana</i>	3.82
	<i>Quercus ilex</i>	0.19	<i>Laurus nobilis</i>	0.58
	<i>Alnus glutinosa</i>	2.63	<i>Crataegus monogyna</i>	2.36
	<i>Fagus sylvatica</i>	5.16	<i>Salix atrocinerea</i>	4.28
	<i>Castanea sativa</i>	27.75	<i>Sorbus aucuparia</i>	3.57
	<i>Fraxinus excelsior</i>	3.74	<i>Salix caprea</i>	0.13
	<i>Ulmus glabra</i>	1.83		
	<i>Betula pubescens</i>	10.91		
	<i>Tilia platyphyllos</i>	3.14		
	<i>Prunus avium</i>	3.01		
	<i>Acer pseudoplatanus</i>	1.14		
21	<i>Quercus robur</i>	6.15	<i>Ilex aquifolium</i>	0.06
	<i>Quercus petraea</i>	2.28	<i>Arbutus unedo</i>	0.11
	<i>Quercus pyrenaica</i>	0.89	<i>Crataegus monogyna</i>	0.07
	<i>Alnus glutinosa</i>	0.68	<i>Salix atrocinerea</i>	1.81
	<i>Fagus sylvatica</i>	1.81	<i>Sorbus aucuparia</i>	2.59
	<i>Castanea sativa</i>	7.45	<i>Salix caprea</i>	0.74
	<i>Fraxinus excelsior</i>	1.05		
	<i>Betula pubescens</i>	70.40		
	<i>Prunus avium</i>	0.28		
	<i>Acer pseudoplatanus</i>	0.51		
24	<i>Quercus robur</i>	2.77	<i>Corylus avellana</i>	4.72
	<i>Quercus petraea</i>	0.79	<i>Laurus nobilis</i>	0.89
	<i>Quercus pyrenaica</i>	0.89	<i>Crataegus monogyna</i>	0.19
	<i>Quercus ilex</i>	0.26	<i>Salix atrocinerea</i>	2.83
	<i>Alnus glutinosa</i>	46.97	<i>Salix caprea</i>	9.08
	<i>Fagus sylvatica</i>	0.41		
	<i>Castanea sativa</i>	4.78		
	<i>Fraxinus excelsior</i>	5.81		
	<i>Ulmus glabra</i>	2.16		
	<i>Betula pubescens</i>	1.29		
	<i>Tilia platyphyllos</i>	1.28		
	<i>Prunus avium</i>	0.66		
	<i>Acer pseudoplatanus</i>	7.16		
27	<i>Quercus robur</i>	6.26	<i>Ilex aquifolium</i>	2.84
	<i>Quercus petraea</i>	3.77	<i>Corylus avellana</i>	18.6
	<i>Quercus pyrenaica</i>	0.21	<i>Laurus nobilis</i>	2.02
	<i>Quercus ilex</i>	2.28	<i>Crataegus monogyna</i>	3.72
	<i>Alnus glutinosa</i>	2.19	<i>Salix atrocinerea</i>	4.56
	<i>Fagus sylvatica</i>	12.25	<i>Sorbus aucuparia</i>	2.71
	<i>Castanea sativa</i>	9.66	<i>Salix caprea</i>	1.70
	<i>Fraxinus excelsior</i>	6.18		
	<i>Ulmus glabra</i>	3.47		
	<i>Betula pubescens</i>	3.75		
	<i>Tilia platyphyllos</i>	2.34		
	<i>Prunus avium</i>	3.60		
	<i>Acer pseudoplatanus</i>	5.93		

%G: Basal area (in %)

Table S4. Species composition and main stand variables for the non-commercial species in the GTR system in each stratum of the SNFI4 under study.

Stratum/ Total plots	Non-commercial species	Non-commercial species				
		N (trees·ha ⁻¹)	G (m ² ·ha ⁻¹)	V (m ³ ·ha ⁻¹)	IAVC (m ³ ·ha ⁻¹ ·year ⁻¹)	VLE (m ³ ·ha ⁻¹)
1 (320 plots)	<i>Ilex aquifolium</i>	27.97	0.38	1.01	0.015	0.25
	<i>Arbutus unedo</i>	14.04	0.17	0.46	0.007	0.11
	<i>Corylus avellana</i>	138.79	1.08	4.05	0.054	0.79
	<i>Laurus nobilis</i>	4.68	0.10	0.24	0.020	0.06
	<i>Crataegus monogyna</i>	19.04	0.23	1.60	0.018	0.16
	<i>Salix atrocinerea</i>	11.10	0.24	1.75	0.038	0.15
	<i>Sorbus aucuparia</i>	9.44	0.13	0.62	0.017	0.09
	<i>Salix caprea</i>	10.51	0.19	1.57	0.029	0.13
2 (139 plots)	<i>Ilex aquifolium</i>	32.08	0.43	1.07	0.017	0.28
	<i>Arbutus unedo</i>	15.57	0.17	0.47	0.007	0.11
	<i>Corylus avellana</i>	37.06	0.26	1.05	0.013	0.19
	<i>Laurus nobilis</i>	9.35	0.18	0.43	0.038	0.11
	<i>Crataegus monogyna</i>	21.94	0.26	1.79	0.019	0.18
	<i>Salix atrocinerea</i>	24.42	0.45	3.59	0.077	0.30
	<i>Sorbus aucuparia</i>	13.08	0.17	0.71	0.022	0.12
	<i>Salix caprea</i>	13.01	0.22	1.85	0.034	0.14
3 (72 plots)	<i>Ilex aquifolium</i>	30.57	0.35	0.97	0.015	0.23
	<i>Arbutus unedo</i>	1.32	0.03	0.05	0.001	0.02
	<i>Corylus avellana</i>	38.33	0.27	1.10	0.013	0.20
	<i>Laurus nobilis</i>	1.47	0.04	0.08	0.008	0.02
	<i>Crataegus monogyna</i>	19.23	0.17	1.45	0.014	0.12
	<i>Salix atrocinerea</i>	17.25	0.31	2.58	0.052	0.20
	<i>Sorbus aucuparia</i>	31.42	0.26	1.24	0.037	0.19
	<i>Salix caprea</i>	0.66	9.2·E ⁻³	0.09	0.001	6.4·E ⁻³
21 (58 plots)	<i>Ilex aquifolium</i>	0.52	8.4·E ⁻³	0.02	3.6·E ⁻⁴	5.4·E ⁻³
	<i>Arbutus unedo</i>	2.60	0.02	0.07	7.4·E ⁻⁴	0.01
	<i>Crataegus monogyna</i>	2.08	9.5·E ⁻³	0.15	8.7·E ⁻⁴	7.5·E ⁻³
	<i>Salix atrocinerea</i>	18.14	0.26	2.47	0.047	0.18
	<i>Sorbus aucuparia</i>	23.30	0.38	1.55	0.048	0.25
	<i>Salix caprea</i>	5.24	0.11	0.82	0.016	0.07
24 (42 plots)	<i>Corylus avellana</i>	97.41	0.85	3.08	0.042	0.62
	<i>Laurus nobilis</i>	14.20	0.16	0.50	0.038	0.11
	<i>Crataegus monogyna</i>	2.79	0.03	0.25	0.003	0.02
	<i>Salix atrocinerea</i>	25.50	0.51	3.90	0.083	0.32
	<i>Salix caprea</i>	82.04	1.63	13.08	0.235	1.05
27 (40 plots)	<i>Ilex aquifolium</i>	23.71	0.23	0.73	0.010	0.16
	<i>Corylus avellana</i>	214.70	1.54	6.12	0.078	1.15
	<i>Laurus nobilis</i>	7.62	0.17	0.44	0.035	0.10
	<i>Crataegus monogyna</i>	23.92	0.31	2.09	0.023	0.21
	<i>Salix atrocinerea</i>	17.75	0.38	2.81	0.061	0.24
	<i>Sorbus aucuparia</i>	10.81	0.22	0.98	0.026	0.14
	<i>Salix caprea</i>	2.11	0.14	0.59	0.014	0.08

N: density. G: basal area. V: total volume with bark. IAVC: annual increment in volume with bark. VLE: firewood volume.

Table S5. Main stand variables for *Castanea sativa* included in the GTR in each stratum studied.

<i>Castanea sativa</i>					
Stratum/ Total plots	<i>N</i> (trees·ha ⁻¹)	<i>G</i> (m ² ·ha ⁻¹)	<i>V</i> (m ³ ·ha ⁻¹)	IASC (m ³ ·ha ⁻¹ ·year ⁻¹)	VLE (m ³ ·ha ⁻¹)
1 (320 plots)	174.80	7.05	33.13	1.153	4.67
2 (139 plots)	94.16	3.37	14.71	0.528	2.37
3 (72 plots)	47.46	2.00	7.37	0.302	1.40
21 (58 plots)	40.72	1.09	4.86	0.208	0.65
24 (42 plots)	14.34	0.86	3.81	0.127	0.57
27 (40 plots)	15.71	0.80	3.24	0.119	0.60

N: density. *G*: basal area. *V*: total volume with bark. IASC: annual increment in volume with bark. VLE: firewood volume.

Table S6. Main stand variables for veteran trees included in the GTR in each stratum under study.

Veteran trees (DBH > 52.5 cm)			
Stratum/ Total plots	<i>N</i> (trees·ha ⁻¹)	<i>G</i> (m ² ·ha ⁻¹)	<i>d_g</i> (cm)
1 (320 plots)	6.09	2.51	72.46
2 (139 plots)	4.32	1.72	71.22
3 (72 plots)	3.19	1.65	81.17
21 (58 plots)	1.14	0.32	59.80
24 (42 plots)	5.22	2.11	71.76
27 (40 plots)	3.82	1.60	73.04

N: density. *G*: basal area. *d_g*: quadratic mean diameter.