

09/06/2021 Sardegna GruppoB 9

**Site conditions**

Altitude: 550 m.a.s.l.

Forest ecological region: Sardinia

Geology / Bedrock: Formations of volcanic origin (rhyolites, riodacites, obsidians)

Soil type: From Lithic to Typic

Haploxerepts

Natural forest community: Galio scabri-Quercetum ilicis

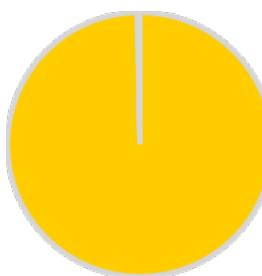
Mean annual temperature: 16.3 C;

Mean annual precipitation: 674

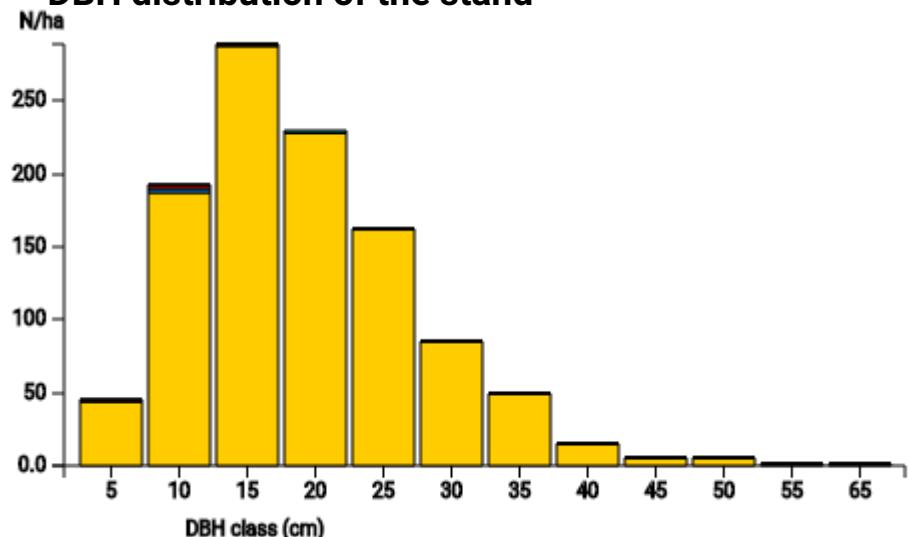
mm; Ownership: Public

(Municipality of Pau - Oristano);

Establishment: 2021

**Tree species distribution by volume (in %)**

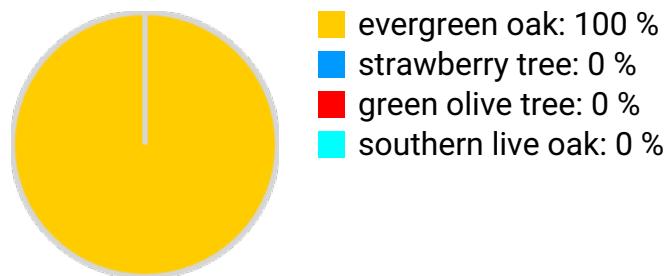
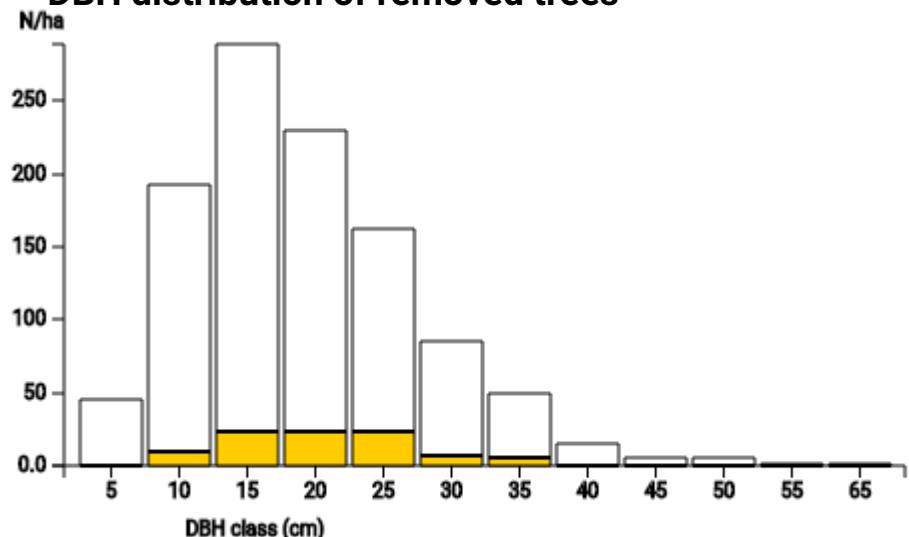
- evergreen oak: 99.8 %
- strawberry tree: 0.1 %
- green olive tree: 0.1 %
- southern live oak: 0.1 %

**DBH distribution of the stand****Initial stand (details by tree species)**

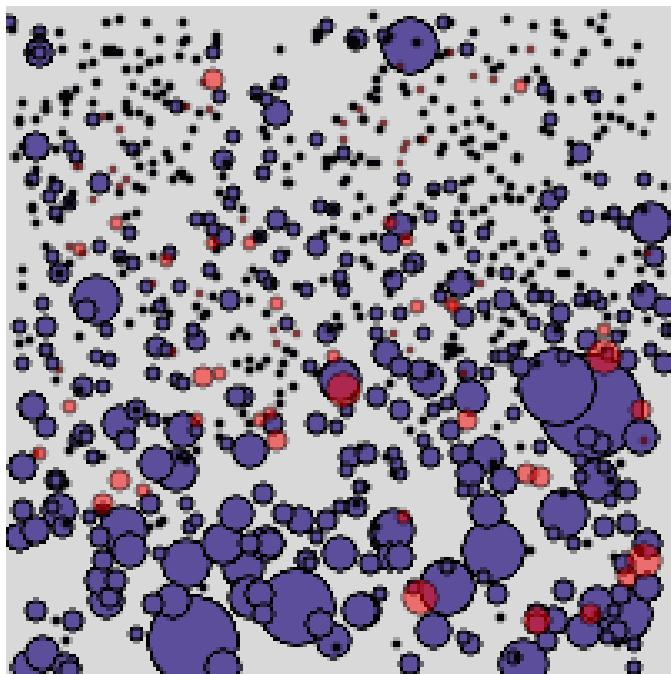
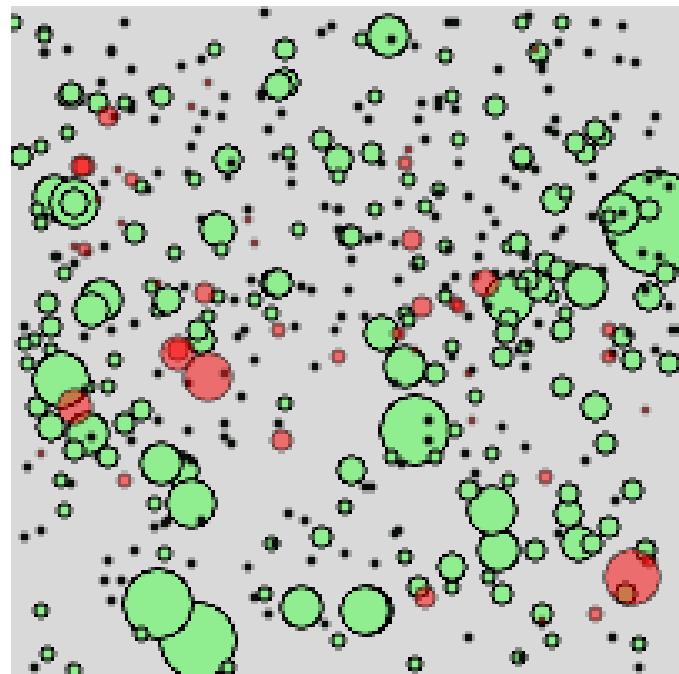
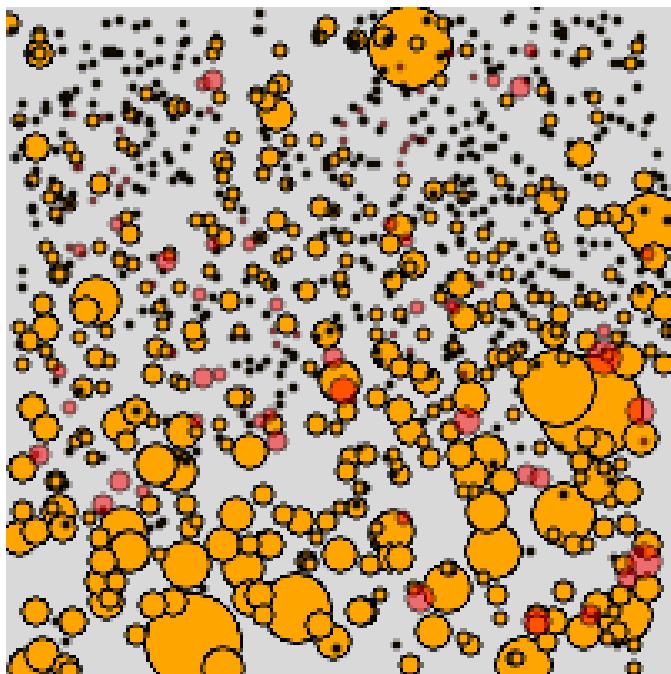
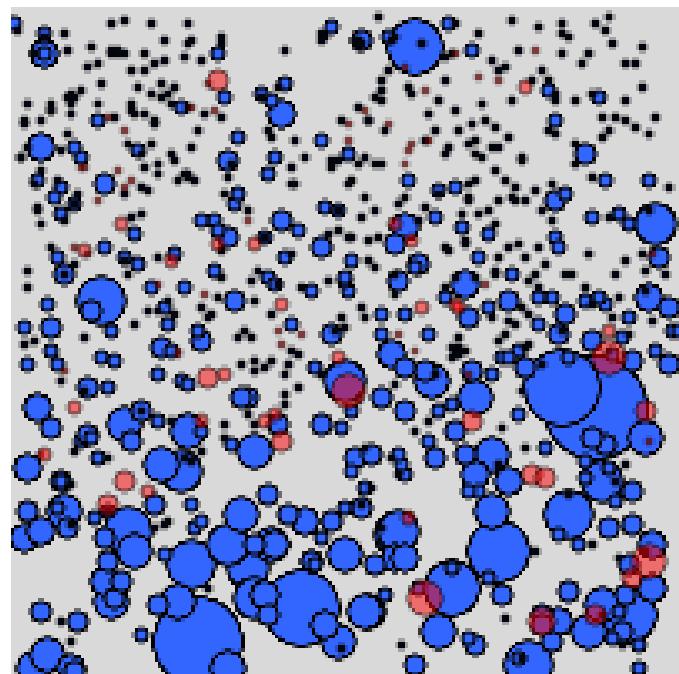
Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	1074	44.6	383.2	49811	9402	1376
green olive tree	4	0	0.2	28	34	3
southern live oak	1	0	0.3	33	10	2
strawberry tree	5	0.1	0.3	43	0	0
Total	1084	44.7	384	49915	9446	1381

**Removed trees**

Volume: 36.4 m<sup>3</sup>  
 Basal area: 4.1 m<sup>2</sup>  
 Economic value: 4724 €  
 Habitat value: 1059 pts.

**Removed trees (N in %)****DBH distribution of removed trees****Removed trees (details by tree species)**

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	94	4.1	36.3	4724	1059	161
green olive tree	0	0	0	0	0	0
southern live oak	0	0	0	0	0	0
strawberry tree	0	0	0	0	0	0
Total	94	4.1	36.3	4724	1059	161

**Economic value [EUR]****Habitat value****Basal area [ $\text{m}^2$ ]****Volume [ $\text{m}^3$ ]****Description:**

Red circles (removed trees); circle size according to numerical values (e.g. large circles mean high values); trees with very low values (e.g. habitat value "0") are not visible.

**Economic values**

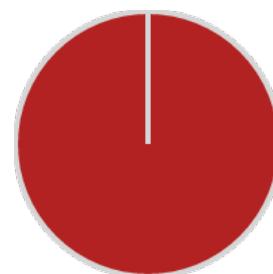
Total value of removed trees: 4724 €

Percentage of total stand value: 9.5 %

Stand value after harvest: 45192 €

**Economic value by tree species [€]**

Tree species	Total	Per m <sup>3</sup>
evergreen oak	4724	130
strawberry tree	0	0
green olive tree	0	0
southern live oak	0	0
Total	4724	130

**Wood quality distribution (m<sup>3</sup> in %)**

- █ A
- █ B
- █ C
- █ IT
- █ F

Quality class	m <sup>3</sup>	%
A	0	0
B	0	0
C	0	0
Industrial Timber	0	0
Fuelwood	36.3	100

**Habitat values**

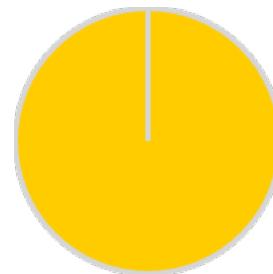
Total habitat value of removed trees: 1059 pts.

Percentage of total stand value: 11.2 %

Stand value after harvest: 8387 pts.

**Habitat value by tree species [pts.]**

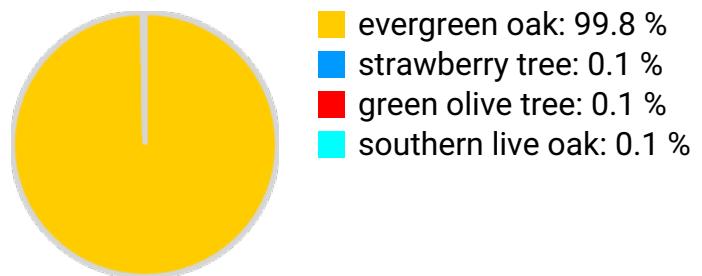
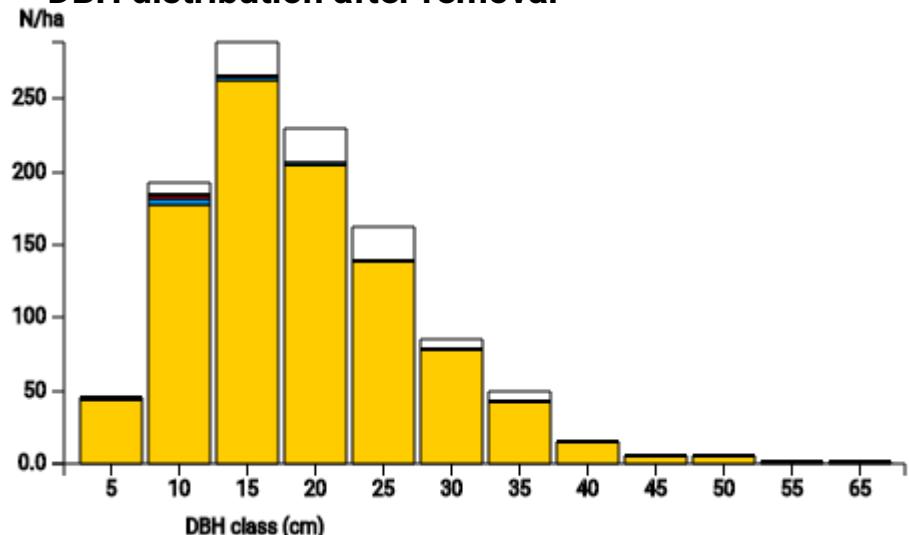
Tree species	Total	Per m <sup>3</sup>	Microhabitats [N]
evergreen oak	1059	29.1	161
strawberry tree	0	0	0
green olive tree	0	0	0
southern live oak	0	0	0
Total	1059	29.1	161

**Habitat value (points) of removed trees by species (in %)**

- █ evergreen oak (100 %)
- █ strawberry tree (0 %)
- █ green olive tree (0 %)
- █ southern live oak (0 %)

**Remaining stand**

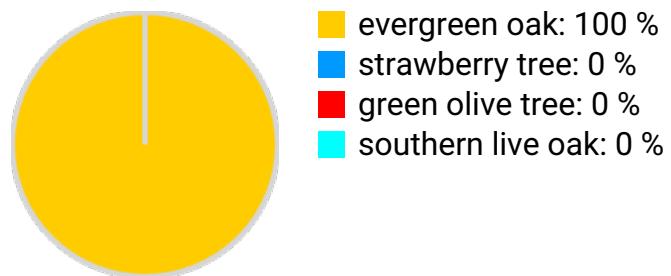
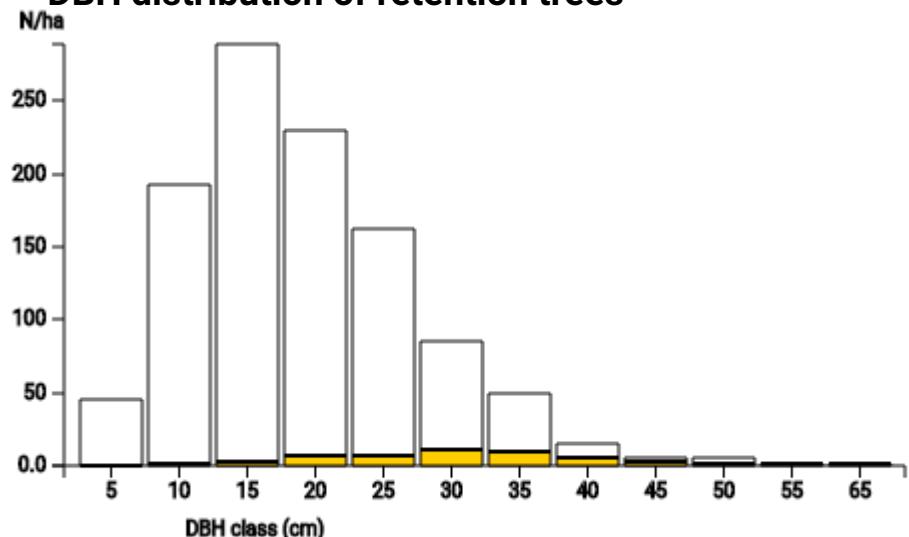
Volume: 348.3 m<sup>3</sup>  
 Basal area: 41.5 m<sup>2</sup>  
 Economic value: 45192 €  
 Habitat value: 8387 pts.

**Remaining trees by volume (m<sup>3</sup> in %)****DBH distribution after removal****Remaining stand (details by tree species)**

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	980	40.5	346.8	45088	8343	1215
green olive tree	4	0	0.2	28	34	3
southern live oak	1	0	0.3	33	10	2
strawberry tree	5	0.1	0.3	43	0	0
Total	990	40.6	347.6	45191	8387	1220

**Retention trees**

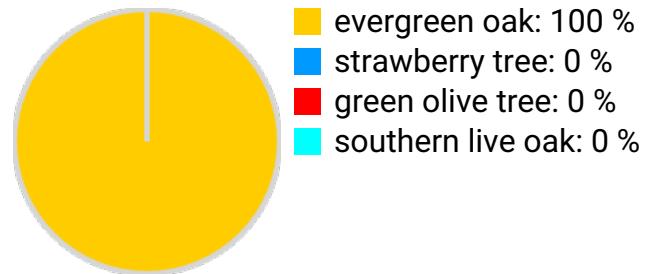
Volume: 50 m<sup>3</sup>  
 Elite trees: 36  
 Habitat trees: 15  
 Economic value: 6499 €  
 Habitat value: 1098 pts.

**Retention trees by volume (m<sup>3</sup> in %)****DBH distribution of retention trees****Retained trees (details by tree species)**

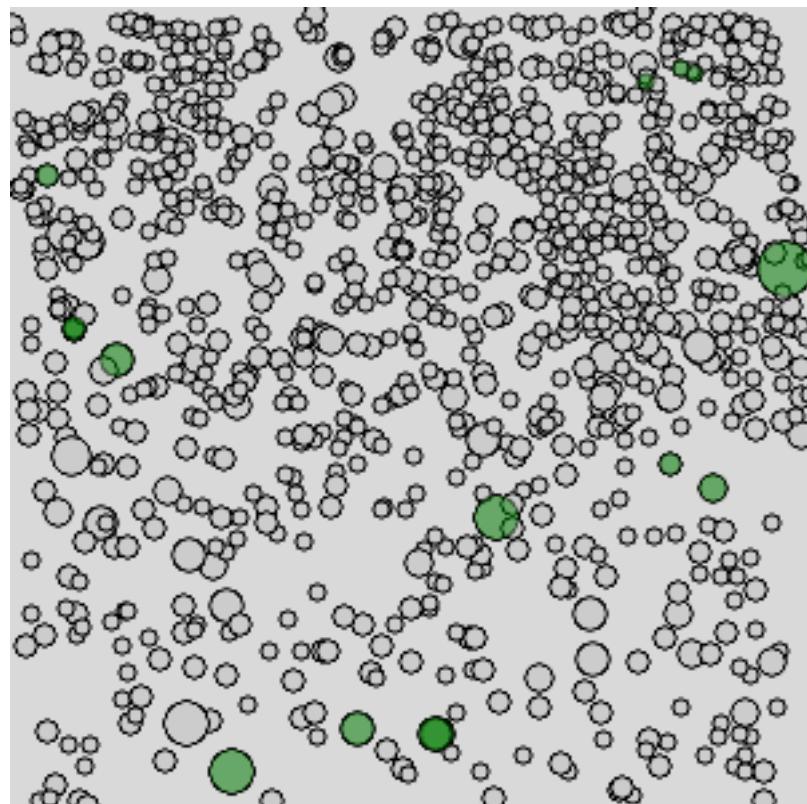
Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	52	5.3	50	6499	1098	137
green olive tree	0	0	0	0	0	0
southern live oak	0	0	0	0	0	0
strawberry tree	0	0	0	0	0	0
Total	52	5.3	50	6499	1098	137

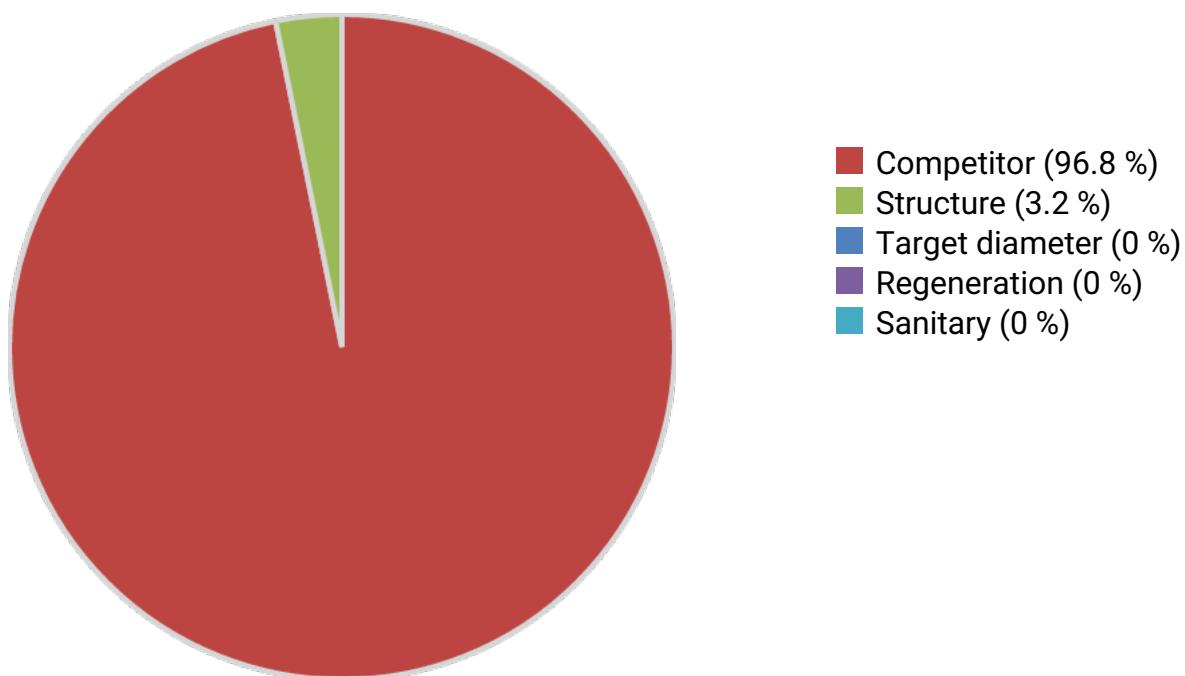
Number of habitat trees	[N]	15
Habitat value	pts.	705
	[% of total]	7.5
Economic value	[€]	2614
	[% of total]	5.2
Number of microhabitats	[N]	76
	[% of total]	5.5

### Habitat tree distribution by species (N in %)

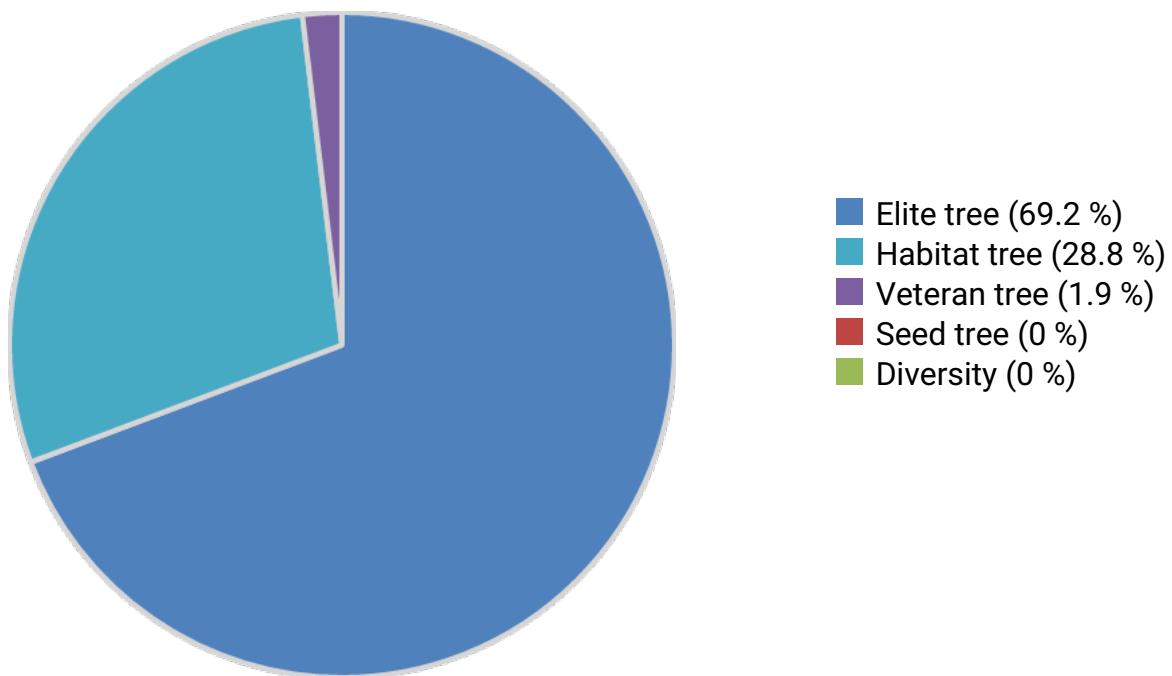


### Spatial distribution of habitat trees



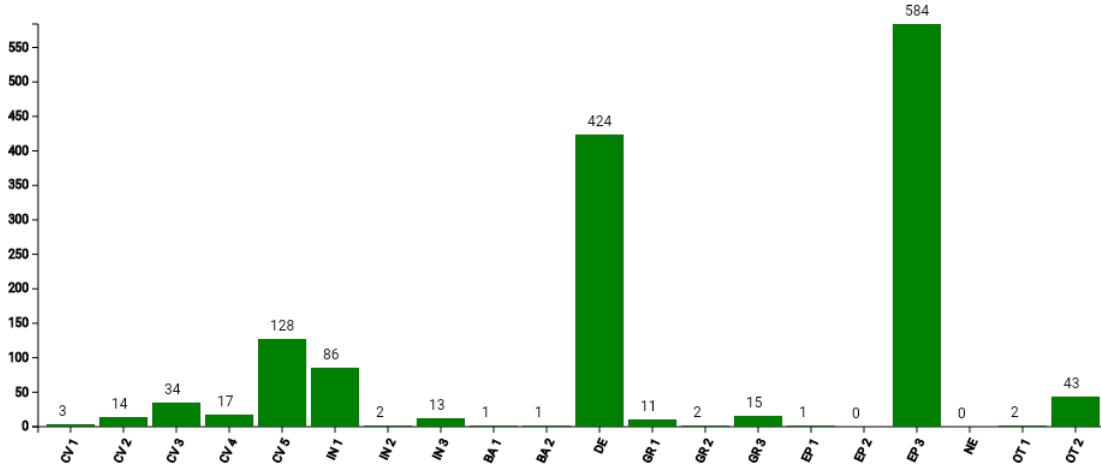
**Reasons for removal**

■ Competitor (96.8 %)  
■ Structure (3.2 %)  
■ Target diameter (0 %)  
■ Regeneration (0 %)  
■ Sanitary (0 %)

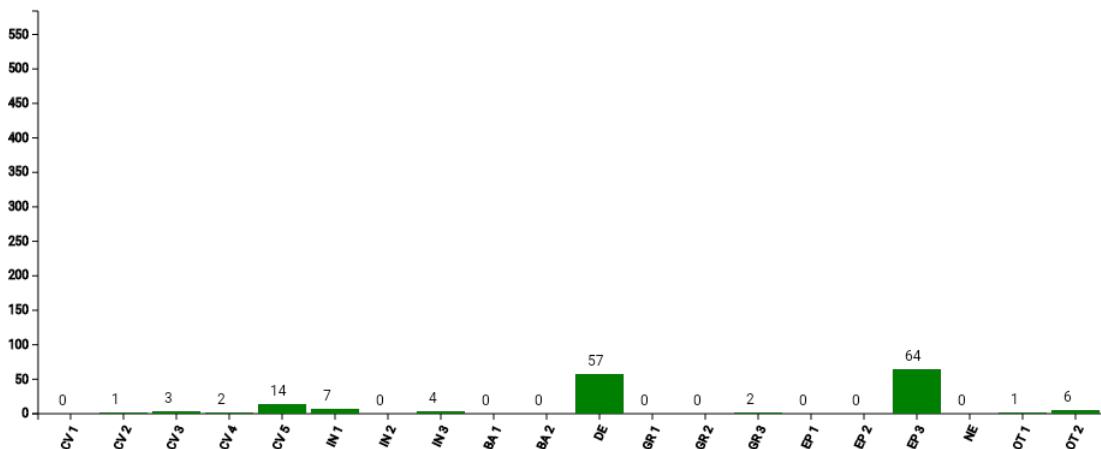
**Reasons for retention**

■ Elite tree (69.2 %)  
■ Habitat tree (28.8 %)  
■ Veteran tree (1.9 %)  
■ Seed tree (0 %)  
■ Diversity (0 %)

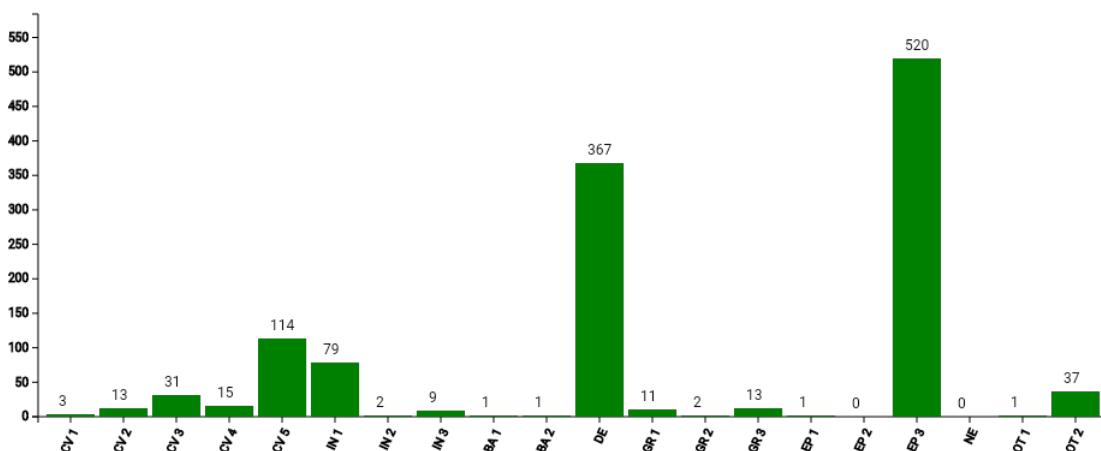
## Distribution of tree microhabitats by code (N total)



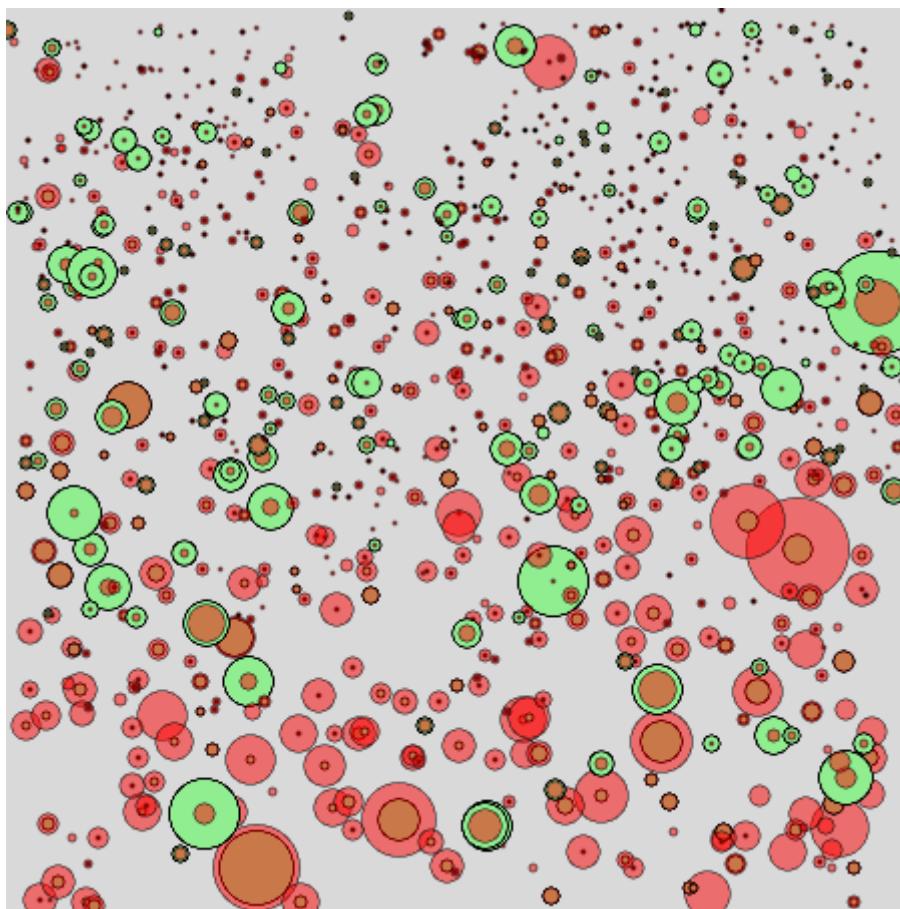
## Removed tree microhabitats by code (N removed)



## **Remaining tree microhabitats by code (N after harvest)**



For more details on codes consult the field guide "Catalogue of tree microhabitats" or the tree microhabitat app.

**Conflict trees (stand data)****Description:**

Overlay of economic and habitat value: red circles (economic value), green circles (habitat value); circle size according to numerical values (e.g. large circles mean high values); trees with very low values are not visible. Trees where both values overlap considerably represent so called "conflict trees".

**Removed trees**

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (1083) <i>Quercus ilex</i>	39	0.12	1.3	169	16	Competitor
evergreen oak (554) <i>Quercus ilex</i>	38	0.11	1.2	151	22	Competitor
evergreen oak (481) <i>Quercus ilex</i>	37	0.11	1.1	145	0	Competitor
evergreen oak (576) <i>Quercus ilex</i>	37	0.11	1.3	169	24	Competitor
evergreen oak (493) <i>Quercus ilex</i>	36.5	0.11	0.8	109	8	Competitor
evergreen oak (586) <i>Quercus ilex</i>	35	0.1	0.9	116	12	Competitor
evergreen oak (489) <i>Quercus ilex</i>	33	0.09	0.8	100	12	Structure
evergreen oak (534) <i>Quercus ilex</i>	30.5	0.07	0.7	89	4	Competitor
evergreen oak (253) <i>Quercus ilex</i>	30.5	0.07	0.6	74	0	Competitor
evergreen oak (77) <i>Quercus ilex</i>	30	0.07	0.6	81	4	Competitor
evergreen oak (571) <i>Quercus ilex</i>	30	0.07	0.7	89	70	Competitor
evergreen oak (395) <i>Quercus ilex</i>	30	0.07	0.7	89	18	Competitor
evergreen oak (589) <i>Quercus ilex</i>	30	0.07	0.8	100	14	Competitor
evergreen oak (390) <i>Quercus ilex</i>	29	0.07	0.6	81	25	Structure
evergreen oak (380) <i>Quercus ilex</i>	29	0.07	0.6	73	4	Competitor
evergreen oak (535) <i>Quercus ilex</i>	29	0.07	0.6	82	16	Competitor
evergreen oak (456) <i>Quercus ilex</i>	29	0.07	0.6	80	20	Competitor
evergreen oak (736) <i>Quercus ilex</i>	29	0.07	0.6	76	0	Competitor
evergreen oak (399) <i>Quercus ilex</i>	29	0.07	0.7	91	4	Competitor
evergreen oak (337) <i>Quercus ilex</i>	28.5	0.06	0.6	82	62	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (543) Quercus ilex	27.5	0.06	0.6	77	4	Competitor
Quercus ilex						
evergreen oak (357) Quercus ilex	27	0.06	0.5	63	42	Competitor
evergreen oak (1000) Quercus ilex	27	0.06	0.5	68	30	Competitor
evergreen oak (935) Quercus ilex	27	0.06	0.5	66	24	Competitor
evergreen oak (370) Quercus ilex	26	0.05	0.5	69	4	Competitor
evergreen oak (903) Quercus ilex	26	0.05	0.4	54	4	Competitor
evergreen oak (228) Quercus ilex	26	0.05	0.5	60	12	Competitor
evergreen oak (338) Quercus ilex	26	0.05	0.5	66	8	Competitor
evergreen oak (1024) Quercus ilex	26	0.05	0.5	61	20	Competitor
evergreen oak (714) Quercus ilex	26	0.05	0.4	48	4	Competitor
evergreen oak (366) Quercus ilex	26	0.05	0.5	65	4	Competitor
evergreen oak (278) Quercus ilex	25.5	0.05	0.4	54	4	Competitor
evergreen oak (394) Quercus ilex	25.5	0.05	0.5	60	4	Competitor
evergreen oak (1016) Quercus ilex	25	0.05	0.4	48	0	Competitor
evergreen oak (240) Quercus ilex	25	0.05	0.4	55	4	Competitor
evergreen oak (1025) Quercus ilex	25	0.05	0.4	51	16	Competitor
evergreen oak (238) Quercus ilex	24.5	0.05	0.4	53	10	Competitor
evergreen oak (372) Quercus ilex	24	0.05	0.4	50	0	Competitor
evergreen oak (244) Quercus ilex	23.5	0.04	0.4	52	20	Competitor
evergreen oak (78) Quercus ilex	23	0.04	0.3	44	10	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (671) <i>Quercus ilex</i>	23	0.04	0.3	37	8	Competitor
evergreen oak (282) <i>Quercus ilex</i>	22.5	0.04	0.4	48	24	Competitor
evergreen oak (325) <i>Quercus ilex</i>	22.5	0.04	0.4	47	4	Competitor
evergreen oak (300) <i>Quercus ilex</i>	22	0.04	0.4	46	20	Competitor
evergreen oak (1029) <i>Quercus ilex</i>	22	0.04	0.3	42	20	Competitor
evergreen oak (174) <i>Quercus ilex</i>	21.5	0.04	0.3	37	28	Competitor
evergreen oak (320) <i>Quercus ilex</i>	21.5	0.04	0.3	42	44	Competitor
evergreen oak (107) <i>Quercus ilex</i>	21.5	0.04	0.3	40	10	Competitor
evergreen oak (194) <i>Quercus ilex</i>	21	0.04	0.2	32	0	Competitor
evergreen oak (820) <i>Quercus ilex</i>	21	0.04	0.2	30	12	Competitor
evergreen oak (745) <i>Quercus ilex</i>	21	0.04	0.3	35	4	Competitor
evergreen oak (245) <i>Quercus ilex</i>	21	0.04	0.3	35	10	Competitor
evergreen oak (173) <i>Quercus ilex</i>	21	0.04	0.3	35	28	Competitor
evergreen oak (1082) <i>Quercus ilex</i>	21	0.04	0.3	41	0	Competitor
evergreen oak (693) <i>Quercus ilex</i>	20.5	0.03	0.3	33	4	Competitor
evergreen oak (233) <i>Quercus ilex</i>	20.5	0.03	0.3	36	12	Competitor
evergreen oak (482) <i>Quercus ilex</i>	20	0.03	0.3	35	0	Structure
evergreen oak (472) <i>Quercus ilex</i>	20	0.03	0.3	36	10	Competitor
evergreen oak (516) <i>Quercus ilex</i>	20	0.03	0.2	25	4	Competitor
evergreen oak (459) <i>Quercus ilex</i>	20	0.03	0.3	38	10	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (751) Quercus ilex	19	0.03	0.2	29	4	Competitor
evergreen oak (193) Quercus ilex	19	0.03	0.2	31	18	Competitor
evergreen oak (712) Quercus ilex	19	0.03	0.2	28	4	Competitor
evergreen oak (662) Quercus ilex	19	0.03	0.2	22	0	Competitor
evergreen oak (819) Quercus ilex	19	0.03	0.2	30	4	Competitor
evergreen oak (209) Quercus ilex	18.5	0.03	0.2	29	10	Competitor
evergreen oak (125) Quercus ilex	18.5	0.03	0.2	29	4	Competitor
evergreen oak (793) Quercus ilex	18	0.03	0.2	24	4	Competitor
evergreen oak (317) Quercus ilex	18	0.03	0.2	27	4	Competitor
evergreen oak (127) Quercus ilex	18	0.03	0.2	30	32	Competitor
evergreen oak (269) Quercus ilex	18	0.03	0.2	26	10	Competitor
evergreen oak (249) Quercus ilex	18	0.03	0.2	27	10	Competitor
evergreen oak (319) Quercus ilex	18	0.03	0.2	32	28	Competitor
evergreen oak (379) Quercus ilex	18	0.03	0.2	24	12	Competitor
evergreen oak (830) Quercus ilex	17.5	0.02	0.2	23	22	Competitor
evergreen oak (108) Quercus ilex	17.5	0.02	0.2	24	0	Competitor
evergreen oak (748) Quercus ilex	17.5	0.02	0.2	25	4	Competitor
evergreen oak (318) Quercus ilex	16.5	0.02	0.2	24	4	Competitor
evergreen oak (667) Quercus ilex	16	0.02	0.1	19	0	Competitor
evergreen oak (783) Quercus ilex	15	0.02	0.1	18	4	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (98) <i>Quercus ilex</i>	15	0.02	0.1	14	0	Competitor
evergreen oak (175) <i>Quercus ilex</i>	15	0.02	0.1	17	12	Competitor
evergreen oak (792) <i>Quercus ilex</i>	15	0.02	0.1	17	4	Competitor
evergreen oak (799) <i>Quercus ilex</i>	14	0.02	0.1	13	0	Competitor
evergreen oak (79) <i>Quercus ilex</i>	13	0.01	0.1	14	0	Competitor
evergreen oak (645) <i>Quercus ilex</i>	13	0.01	0.1	11	0	Competitor
evergreen oak (100) <i>Quercus ilex</i>	11.5	0.01	0.1	10	0	Competitor
evergreen oak (694) <i>Quercus ilex</i>	11.5	0.01	0.1	9	0	Competitor
evergreen oak (643) <i>Quercus ilex</i>	11	0.01	0.1	9	0	Competitor
evergreen oak (210) <i>Quercus ilex</i>	11	0.01	0.1	8	0	Competitor
evergreen oak (737) <i>Quercus ilex</i>	11	0.01	0.1	8	0	Competitor
evergreen oak (211) <i>Quercus ilex</i>	11	0.01	0.1	9	0	Competitor

**Retention trees**

<b>Tree</b>	<b>DBH (cm)</b>	<b>Basal area (m<sup>2</sup>)</b>	<b>Volume (m<sup>3</sup>)</b>	<b>Economic value (€)</b>	<b>Habitat value (pts.)</b>	<b>Reason</b>
evergreen oak (490) <i>Quercus ilex</i>	67	0.35	3.7	475	40	Habitat tree
evergreen oak (449) <i>Quercus ilex</i>	65.5	0.34	3.1	408	100	Habitat tree
evergreen oak (468) <i>Quercus ilex</i>	58.5	0.27	2.6	340	28	Habitat tree
evergreen oak (439) <i>Quercus ilex</i>	54	0.23	2.7	347	56	Habitat tree
evergreen oak (977) <i>Quercus ilex</i>	53	0.22	1.6	204	140	Habitat tree
evergreen oak (286) <i>Quercus ilex</i>	47.5	0.18	1.6	208	60	Habitat tree
evergreen oak (569) <i>Quercus ilex</i>	47	0.17	1.9	244	18	Elite tree
evergreen oak (411) <i>Quercus ilex</i>	46	0.17	1.8	231	0	Elite tree
evergreen oak (478) <i>Quercus ilex</i>	44	0.15	1.6	203	4	Elite tree
evergreen oak (547) <i>Quercus ilex</i>	42	0.14	1.6	202	10	Elite tree
evergreen oak (548) <i>Quercus ilex</i>	42	0.14	1.5	190	10	Elite tree
evergreen oak (384) <i>Quercus ilex</i>	41	0.13	1.3	164	60	Elite tree
evergreen oak (515) <i>Quercus ilex</i>	40	0.13	1.2	161	4	Elite tree
evergreen oak (488) <i>Quercus ilex</i>	40	0.13	1.3	165	16	Elite tree
evergreen oak (376) <i>Quercus ilex</i>	38	0.11	1.2	150	10	Elite tree
evergreen oak (533) <i>Quercus ilex</i>	37	0.11	0.9	121	14	Elite tree
evergreen oak (1003) <i>Quercus ilex</i>	37	0.11	1	125	4	Elite tree
evergreen oak (577) <i>Quercus ilex</i>	37	0.11	1.2	150	66	Habitat tree
evergreen oak (578) <i>Quercus ilex</i>	37	0.11	1.1	148	62	Habitat tree
evergreen oak (588) <i>Quercus ilex</i>	37	0.11	1	136	4	Elite tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (137) Quercus ilex	36	0.1	0.9	113	18	Habitat tree
Quercus ilex						
evergreen oak (904) Quercus ilex	35.5	0.1	0.9	120	4	Elite tree
evergreen oak (1015) Quercus ilex	34	0.09	0.7	97	10	Elite tree
evergreen oak (572) Quercus ilex	34	0.09	1	125	0	Elite tree
evergreen oak (378) Quercus ilex	33	0.09	0.9	114	8	Elite tree
evergreen oak (267) Quercus ilex	32	0.08	0.8	100	10	Habitat tree
evergreen oak (356) Quercus ilex	32	0.08	0.7	93	16	Elite tree
evergreen oak (1075) Quercus ilex	32	0.08	0.8	105	4	Elite tree
evergreen oak (585) Quercus ilex	31	0.08	0.7	86	24	Veteran tree
evergreen oak (195) Quercus ilex	31	0.08	0.7	86	10	Elite tree
evergreen oak (239) Quercus ilex	30.5	0.07	0.6	84	10	Elite tree
evergreen oak (371) Quercus ilex	30	0.07	0.7	89	10	Elite tree
evergreen oak (313) Quercus ilex	30	0.07	0.6	83	40	Elite tree
evergreen oak (312) Quercus ilex	29	0.07	0.6	78	28	Elite tree
evergreen oak (299) Quercus ilex	28.5	0.06	0.6	74	4	Elite tree
evergreen oak (128) Quercus ilex	28	0.06	0.5	70	4	Elite tree
evergreen oak (1030) Quercus ilex	28	0.06	0.6	75	4	Elite tree
evergreen oak (243) Quercus ilex	26	0.05	0.5	59	7	Elite tree
evergreen oak (270) Quercus ilex	25	0.05	0.4	56	12	Elite tree
evergreen oak (649) Quercus ilex	25	0.05	0.4	52	4	Elite tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (760) Quercus ilex	24	0.05	0.4	46	4	Elite tree
evergreen oak (696) Quercus ilex	24	0.05	0.3	41	4	Elite tree
evergreen oak (266) Quercus ilex	24	0.05	0.4	47	21	Habitat tree
evergreen oak (109) Quercus ilex	23.5	0.04	0.4	49	8	Elite tree
evergreen oak (818) Quercus ilex	21	0.04	0.2	31	10	Elite tree
evergreen oak (687) Quercus ilex	20	0.03	0.2	27	8	Habitat tree
evergreen oak (749) Quercus ilex	20	0.03	0.3	33	10	Elite tree
evergreen oak (750) Quercus ilex	19	0.03	0.2	28	4	Elite tree
evergreen oak (644) Quercus ilex	18	0.03	0.2	20	0	Elite tree
evergreen oak (681) Quercus ilex	17	0.02	0.1	19	0	Habitat tree
evergreen oak (683) Quercus ilex	13	0.01	0.1	9	0	Habitat tree