

11/06/2021 Sardegna_Gruppo D 11 giu

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

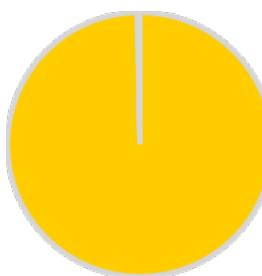
Mean annual temperature: 16.3 C;

Mean annual precipitation: 674

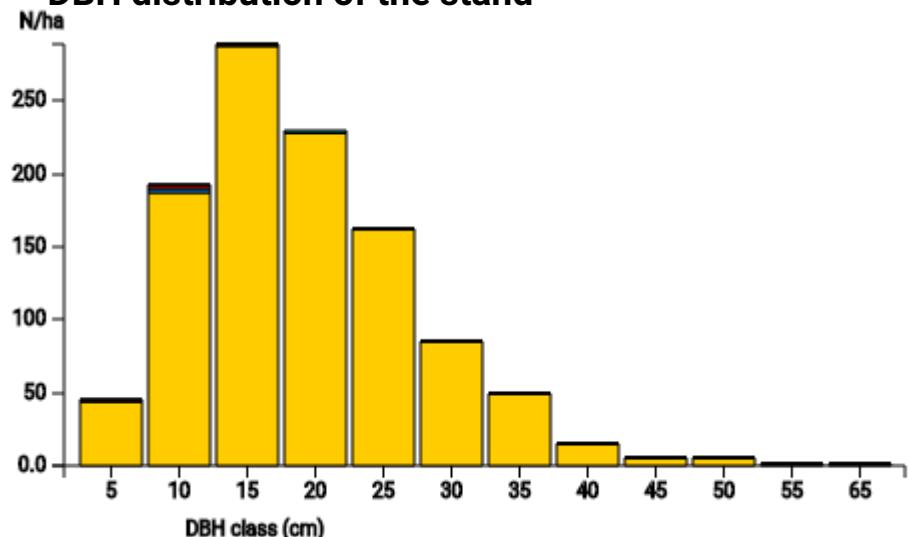
mm; Ownership: Public

(Municipality of Pau - Oristano);

Establishment: 2021

Tree species distribution by volume (in %)

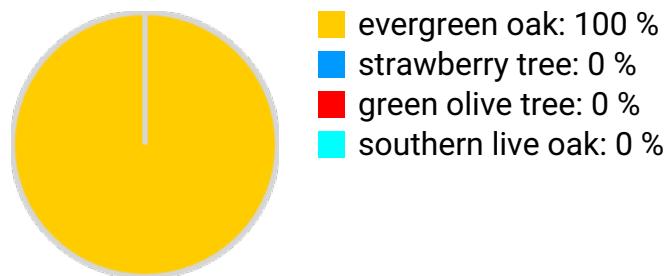
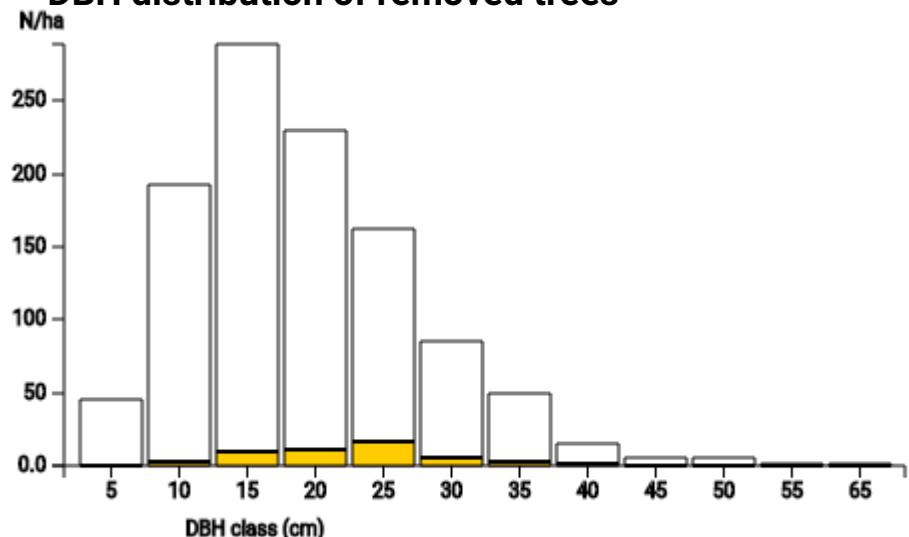
- evergreen oak: 99.8 %
- strawberry tree: 0.1 %
- green olive tree: 0.1 %
- southern live oak: 0.1 %

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

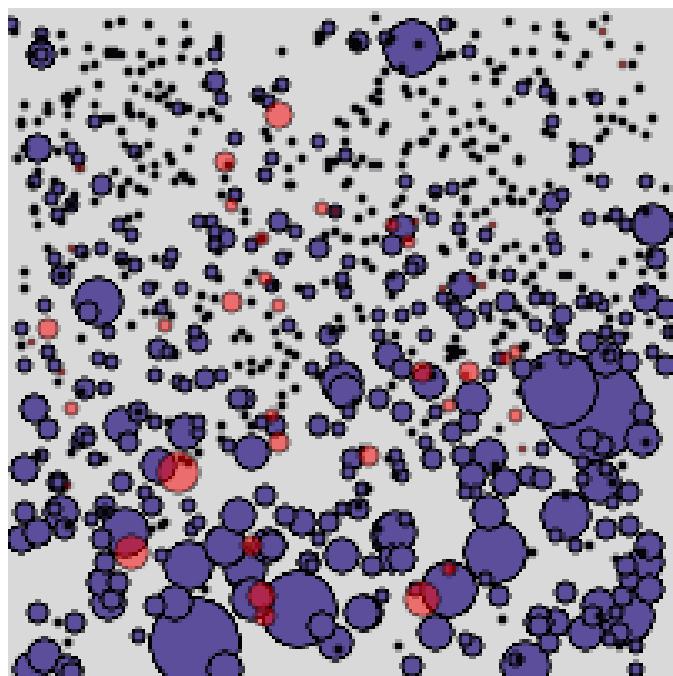
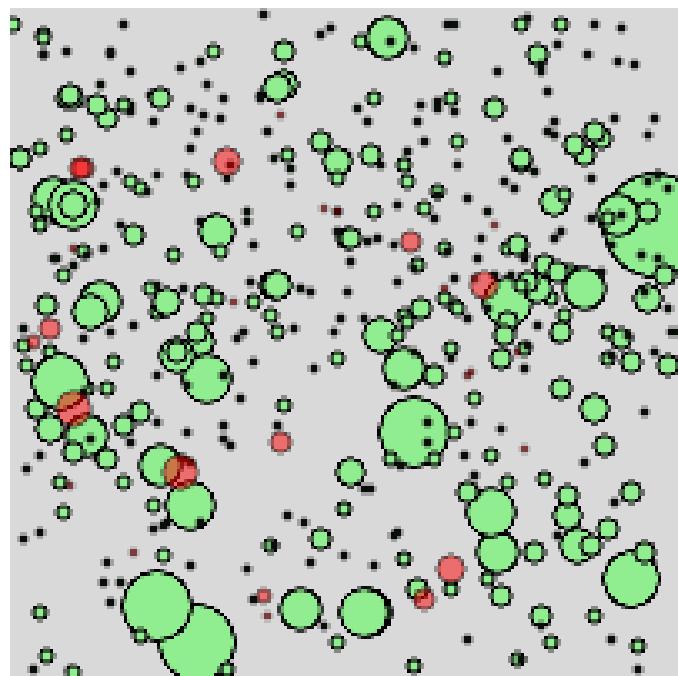
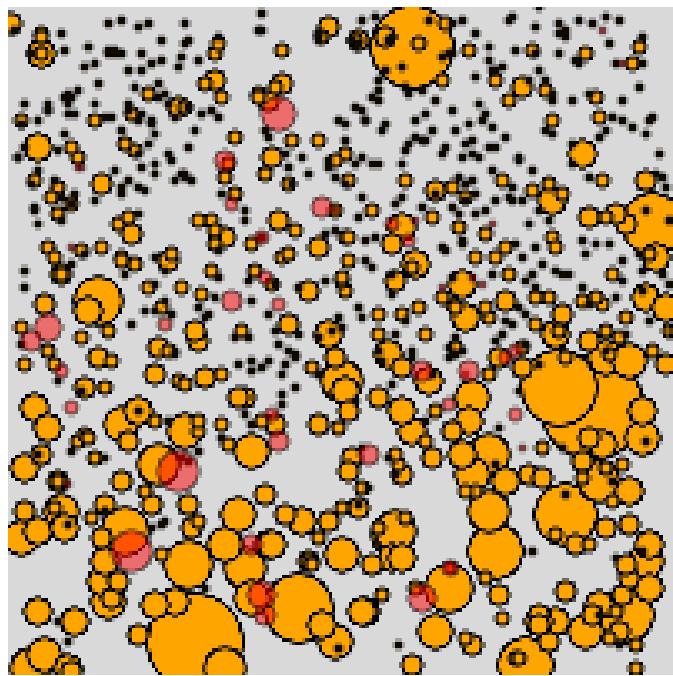
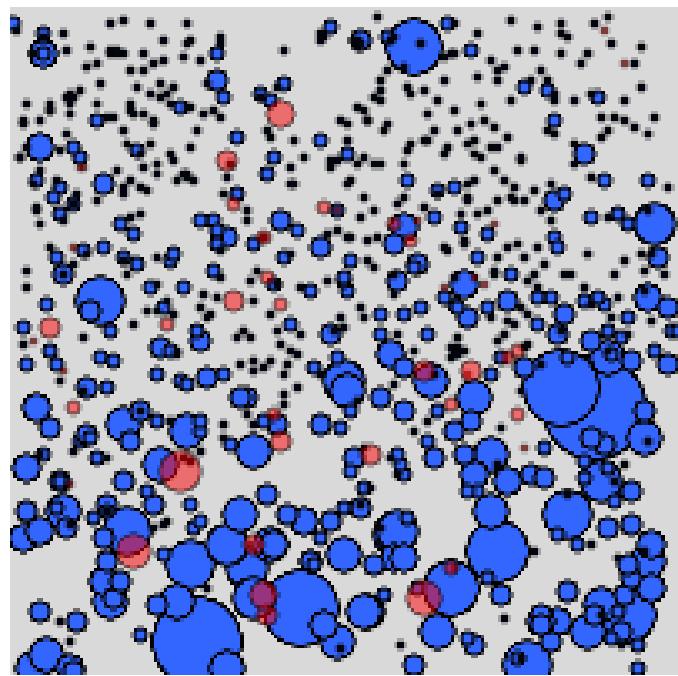
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	1074	44.6	383.2	49811	9402	1376
green olive tree	4	0	0.2	28	34	3
southern live oak	1	0	0.3	33	10	2
strawberry tree	5	0.1	0.3	43	0	0
Total	1084	44.7	384	49915	9446	1381

Removed trees

Volume: 23.9 m³
 Basal area: 2.6 m²
 Economic value: 3103 €
 Habitat value: 588 pts.

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

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	49	2.6	23.9	3103	588	84
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	49	2.6	23.9	3103	588	84

Economic value [EUR]**Habitat value****Basal area [m^2]****Volume [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

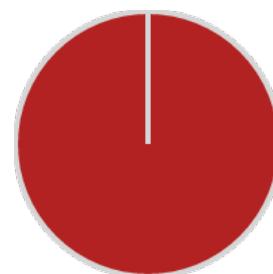
Total value of removed trees: 3103 €

Percentage of total stand value: 6.2 %

Stand value after harvest: 46812 €

Economic value by tree species [€]

Tree species	Total	Per m ³
evergreen oak	3103	130
strawberry tree	0	0
green olive tree	0	0
southern live oak	0	0
Total	3103	130

Wood quality distribution (m³ in %)

- █ A
- █ B
- █ C
- █ IT
- █ F

Quality class	m ³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	0	0
Fuelwood	23.9	100

Habitat values

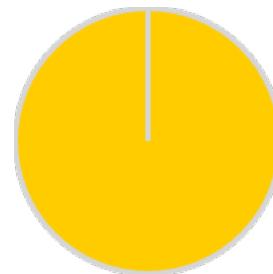
Total habitat value of removed trees: 588 pts.

Percentage of total stand value: 6.2 %

Stand value after harvest: 8858 pts.

Habitat value by tree species [pts.]

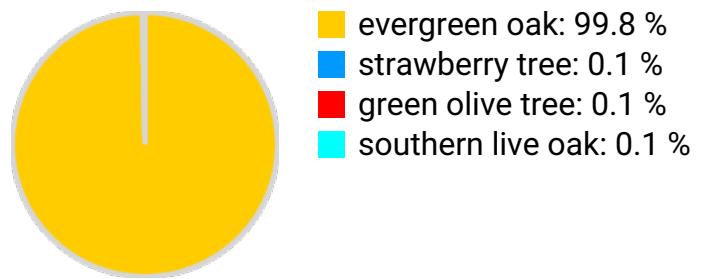
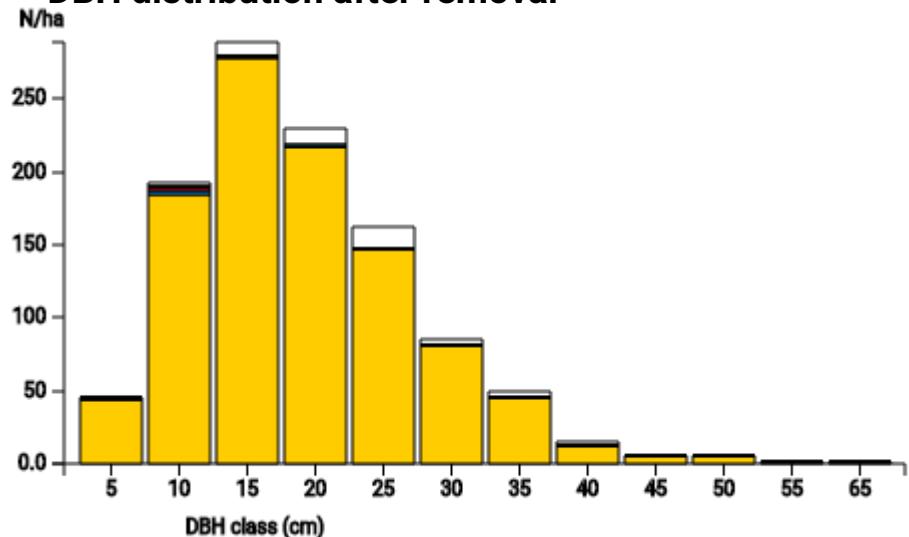
Tree species	Total	Per m ³	Microhabitats [N]
evergreen oak	588	24.6	84
strawberry tree	0	0	0
green olive tree	0	0	0
southern live oak	0	0	0
Total	588	24.6	84

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

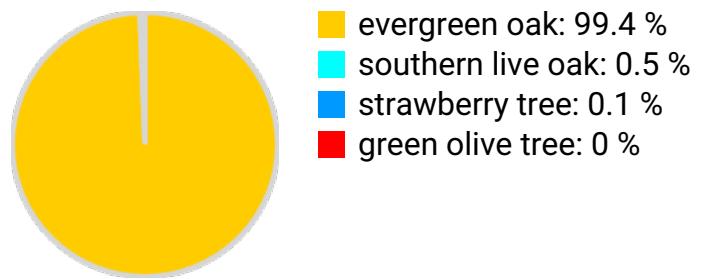
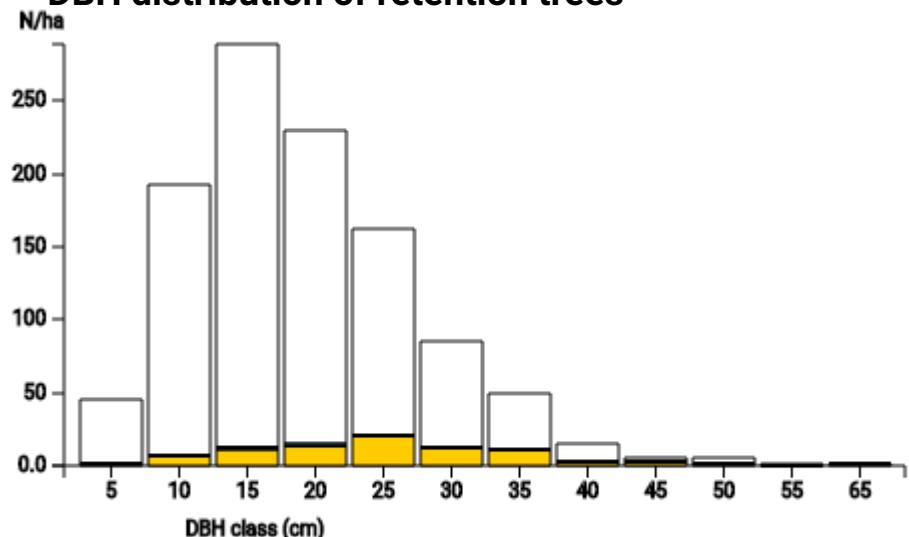
Volume: 360.7 m³
 Basal area: 43 m²
 Economic value: 46812 €
 Habitat value: 8858 pts.

Remaining trees by volume (m³ in %)**DBH distribution after removal****Remaining stand (details by tree species)**

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	1025	42	359.3	46708	8814	1292
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	1035	42.1	360.1	46812	8858	1297

Retention trees

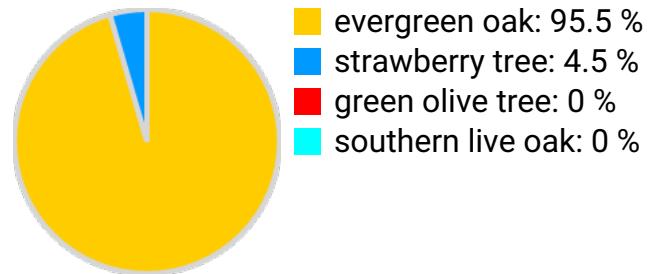
Volume: 55.3 m³
 Elite trees: 40
 Habitat trees: 22
 Economic value: 7184 €
 Habitat value: 1237 pts.

Retention trees by volume (m³ in %)**DBH distribution of retention trees****Retained trees (details by tree species)**

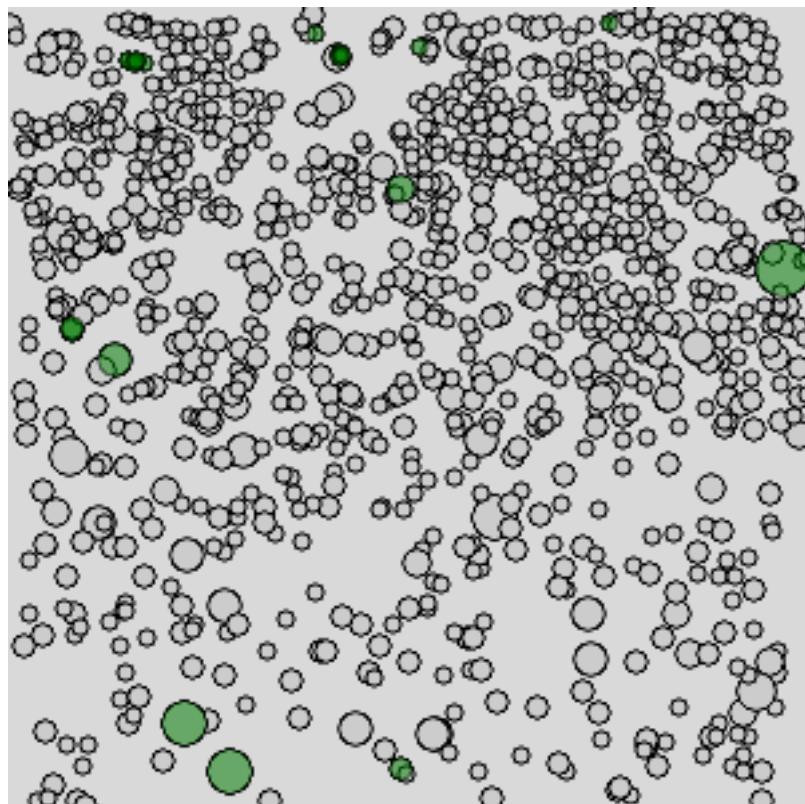
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	86	6	54.9	7141	1227	166
green olive tree	0	0	0	0	0	0
southern live oak	1	0	0.3	33	10	2
strawberry tree	1	0	0.1	10	0	0
Total	88	6.1	55.3	7184	1237	168

Number of habitat trees	[N]	22
Habitat value	pts.	501
	[% of total]	5.3
Economic value	[€]	1484
	[% of total]	3
Number of microhabitats	[N]	52
	[% of total]	3.8

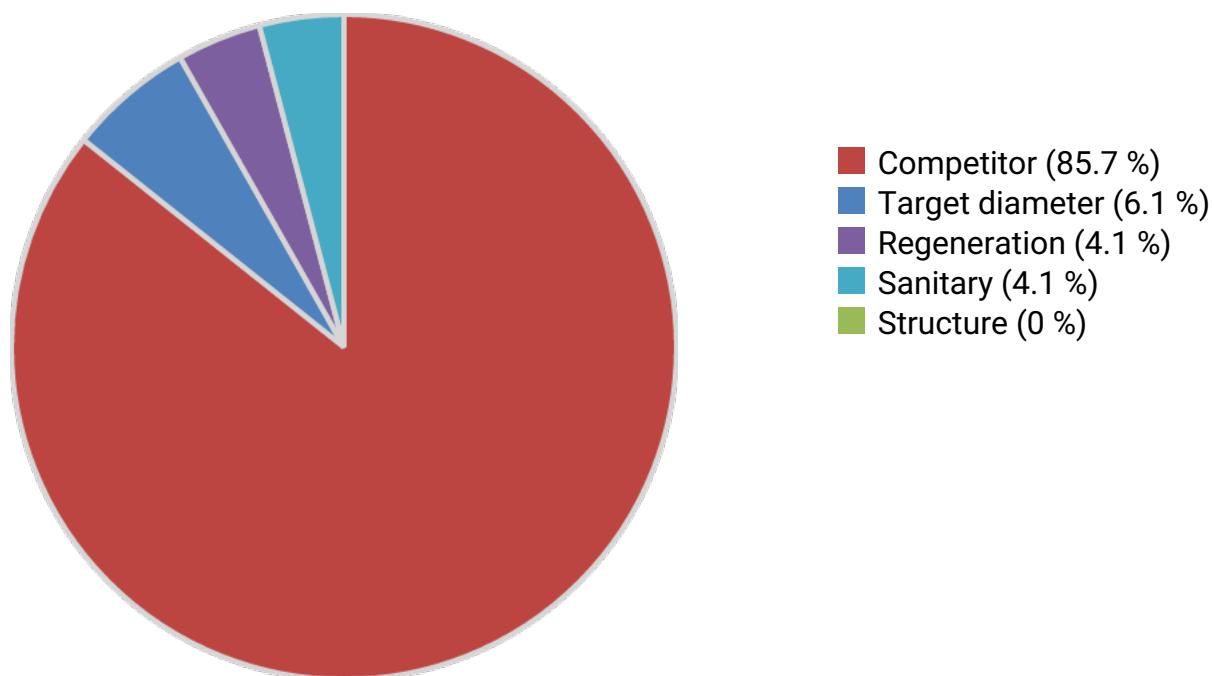
Habitat tree distribution by species (N in %)



Spatial distribution of habitat trees

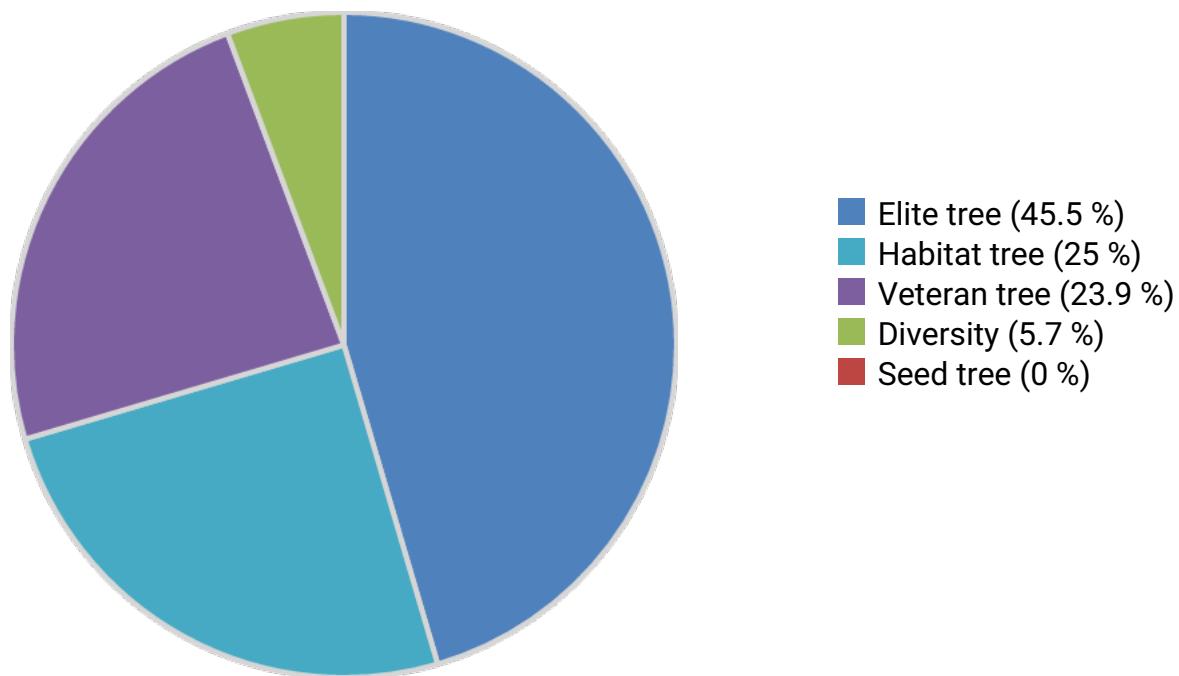


Reasons for removal



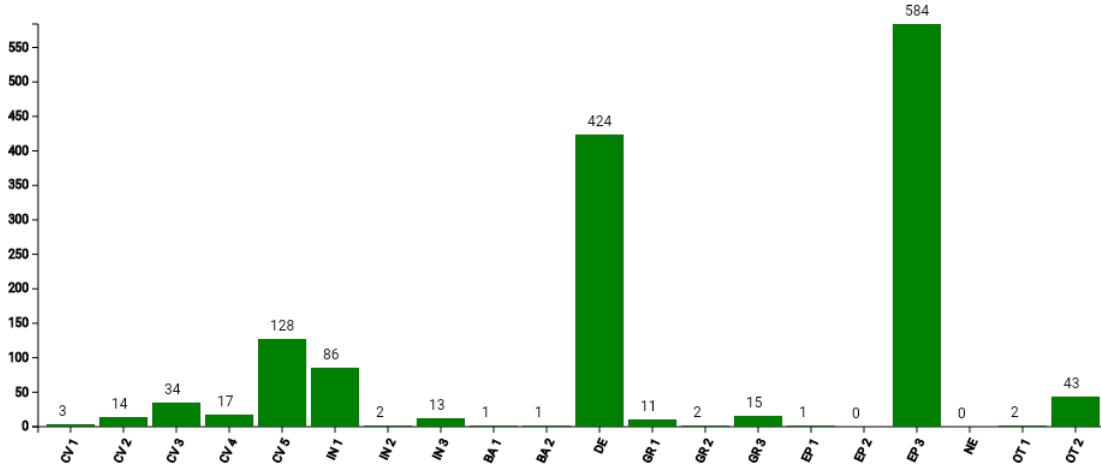
■ Competitor (85.7 %)
■ Target diameter (6.1 %)
■ Regeneration (4.1 %)
■ Sanitary (4.1 %)
■ Structure (0 %)

Reasons for retention

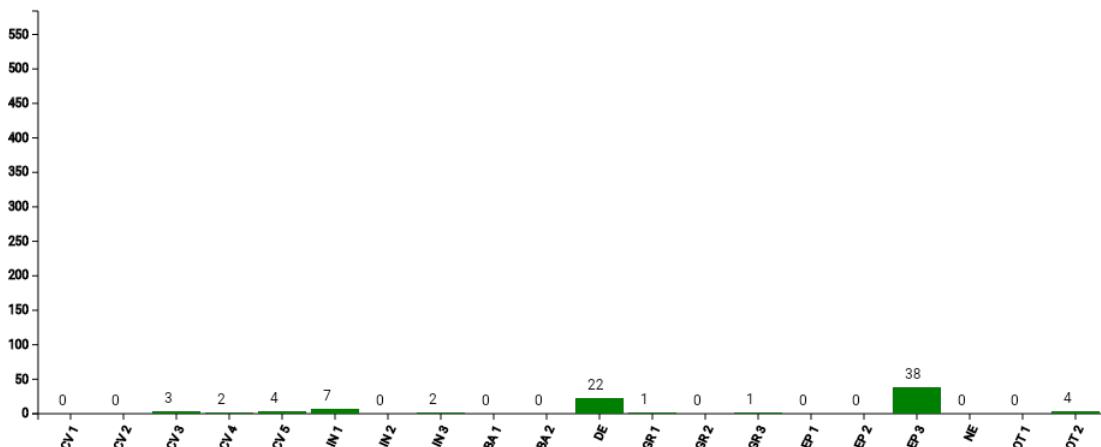


■ Elite tree (45.5 %)
■ Habitat tree (25 %)
■ Veteran tree (23.9 %)
■ Diversity (5.7 %)
■ Seed tree (0 %)

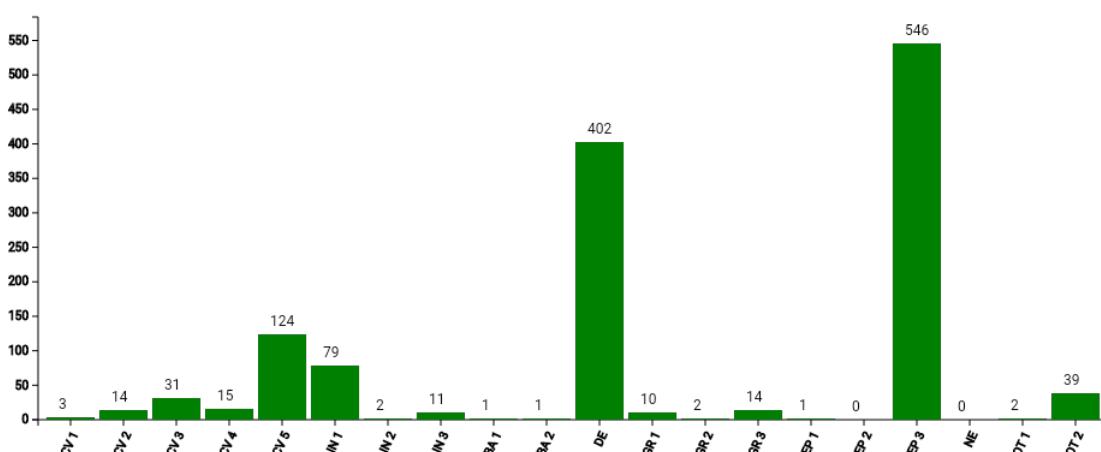
Distribution of tree microhabitats by code (N total)



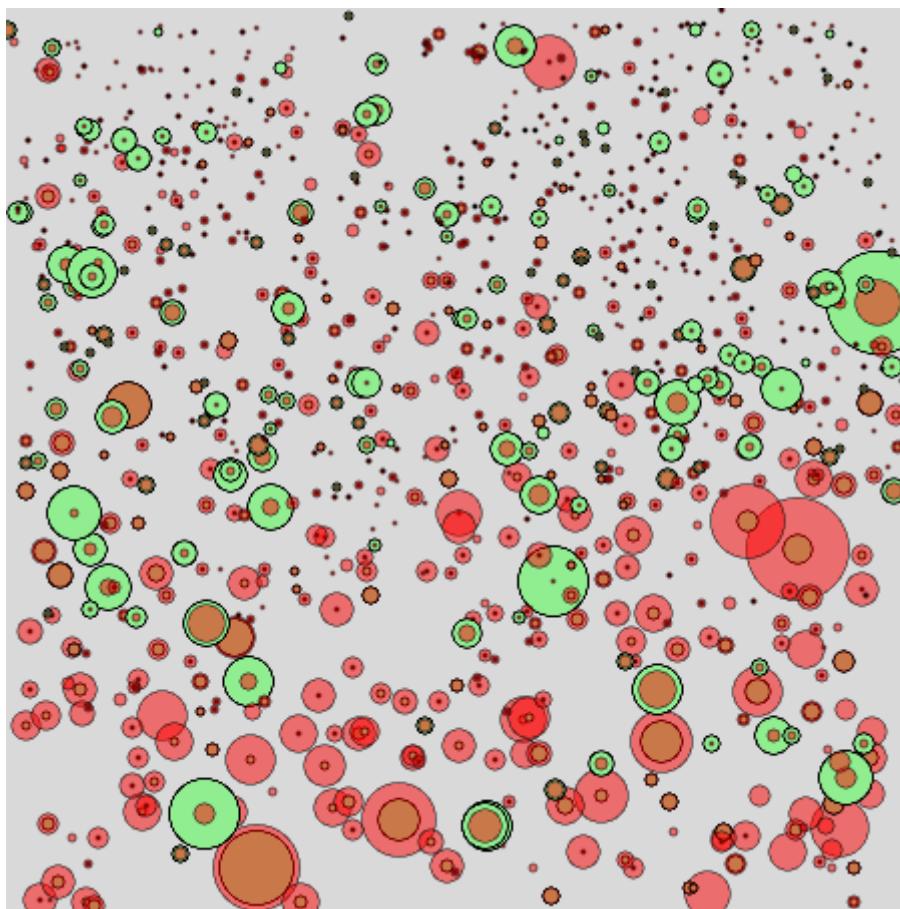
Removed tree microhabitats by code (N removed)



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 ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (392) <i>Quercus ilex</i>	43	0.15	1.5	194	48	Competitor
evergreen oak (421) <i>Quercus ilex</i>	41	0.13	1.3	165	10	Competitor
evergreen oak (114) <i>Quercus ilex</i>	37.5	0.11	0.9	114	12	Competitor
evergreen oak (576) <i>Quercus ilex</i>	37	0.11	1.3	169	24	Competitor
evergreen oak (438) <i>Quercus ilex</i>	36	0.1	1	134	14	Competitor
evergreen oak (307) <i>Quercus ilex</i>	33	0.09	0.9	111	24	Target diameter
evergreen oak (440) <i>Quercus ilex</i>	32	0.08	0.7	95	6	Competitor
evergreen oak (475) <i>Quercus ilex</i>	32	0.08	0.8	107	4	Competitor
evergreen oak (280) <i>Quercus ilex</i>	31.5	0.08	0.7	92	10	Target diameter
evergreen oak (161) <i>Quercus ilex</i>	31	0.08	0.6	84	36	Competitor
evergreen oak (390) <i>Quercus ilex</i>	29	0.07	0.6	81	25	Competitor
evergreen oak (471) <i>Quercus ilex</i>	29	0.07	0.6	81	10	Competitor
evergreen oak (424) <i>Quercus ilex</i>	29	0.07	0.6	84	4	Competitor
evergreen oak (867) <i>Quercus ilex</i>	28.5	0.06	0.6	78	10	Competitor
evergreen oak (328) <i>Quercus ilex</i>	28.5	0.06	0.4	46	22	Sanitary
evergreen oak (502) <i>Quercus ilex</i>	28.5	0.06	0.6	84	4	Competitor
evergreen oak (303) <i>Quercus ilex</i>	28	0.06	0.5	65	4	Competitor
evergreen oak (357) <i>Quercus ilex</i>	27	0.06	0.5	63	42	Competitor
evergreen oak (491) <i>Quercus ilex</i>	27	0.06	0.5	66	4	Competitor
evergreen oak (935) <i>Quercus ilex</i>	27	0.06	0.5	66	24	Regeneration

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (220) Quercus ilex	26	0.05	0.4	57	4	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 (278) Quercus ilex	25.5	0.05	0.4	54	4	Competitor
evergreen oak (237) Quercus ilex	25	0.05	0.4	52	4	Competitor
evergreen oak (258) Quercus ilex	24.5	0.05	0.4	54	4	Target diameter
evergreen oak (1073) Quercus ilex	24	0.05	0.4	57	12	Competitor
evergreen oak (464) Quercus ilex	24	0.05	0.4	58	4	Competitor
evergreen oak (562) Quercus ilex	24	0.05	0.4	49	4	Competitor
evergreen oak (563) Quercus ilex	23.5	0.04	0.4	52	34	Competitor
evergreen oak (325) Quercus ilex	22.5	0.04	0.4	47	4	Competitor
evergreen oak (174) Quercus ilex	21.5	0.04	0.3	37	28	Competitor
evergreen oak (245) Quercus ilex	21	0.04	0.3	35	10	Competitor
evergreen oak (173) Quercus ilex	21	0.04	0.3	35	28	Competitor
evergreen oak (510) Quercus ilex	20	0.03	0.3	37	8	Competitor
evergreen oak (472) Quercus ilex	20	0.03	0.3	36	10	Competitor
evergreen oak (1004) Quercus ilex	19.5	0.03	0.3	33	34	Competitor
evergreen oak (674) Quercus ilex	19	0.03	0.2	28	4	Competitor
evergreen oak (396) Quercus ilex	19	0.03	0.2	31	6	Competitor
evergreen oak (869) Quercus ilex	19	0.03	0.2	30	7	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (1002) Quercus ilex	19	0.03	0.3	34	10	Competitor
evergreen oak (724) Quercus ilex	17	0.02	0.1	18	0	Competitor
evergreen oak (988) Quercus ilex	17	0.02	0.2	21	12	Competitor
evergreen oak (926) Quercus ilex	16	0.02	0.2	20	8	Competitor
evergreen oak (905) Quercus ilex	15.5	0.02	0.2	21	0	Competitor
evergreen oak (866) Quercus ilex	13	0.01	0.1	15	0	Regeneration
evergreen oak (711) Quercus ilex	12	0.01	0.1	10	0	Competitor
evergreen oak (217) [REPLACE_DEAD]Quercus ilex	11.5	0.01	0.1	9	0	Sanitary

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (449) <i>Quercus ilex</i>	65.5	0.34	3.1	408	100	Habitat tree
evergreen oak (439) <i>Quercus ilex</i>	54	0.23	2.7	347	56	Veteran 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 (450) <i>Quercus ilex</i>	42	0.14	1.3	174	16	Veteran tree
evergreen oak (509) <i>Quercus ilex</i>	41	0.13	1.3	170	16	Elite tree
evergreen oak (488) <i>Quercus ilex</i>	40	0.13	1.3	165	16	Elite tree
evergreen oak (437) <i>Quercus ilex</i>	39	0.12	1.4	179	10	Elite tree
evergreen oak (405) <i>Quercus ilex</i>	39	0.12	1.2	154	4	Elite tree
evergreen oak (580) <i>Quercus ilex</i>	38.5	0.12	1.1	148	14	Habitat tree
evergreen oak (583) <i>Quercus ilex</i>	38	0.11	1.1	147	4	Elite tree
evergreen oak (521) <i>Quercus ilex</i>	38	0.11	1.1	138	10	Elite tree
evergreen oak (376) <i>Quercus ilex</i>	38	0.11	1.2	150	10	Elite tree
evergreen oak (1003) <i>Quercus ilex</i>	37	0.11	1	125	4	Elite tree
evergreen oak (474) <i>Quercus ilex</i>	37	0.11	1.2	154	10	Elite tree
evergreen oak (588) <i>Quercus ilex</i>	37	0.11	1	136	4	Elite tree
evergreen oak (904) <i>Quercus ilex</i>	35.5	0.1	0.9	120	4	Elite tree
evergreen oak (586) <i>Quercus ilex</i>	35	0.1	0.9	116	12	Diversity

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (442) Quercus ilex	34	0.09	0.8	99	94	Habitat 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 (507) Quercus ilex	31	0.08	0.8	99	14	Veteran tree
evergreen oak (321) Quercus ilex	31	0.08	0.8	99	4	Elite tree
evergreen oak (658) Quercus ilex	31	0.08	0.5	69	54	Veteran tree
evergreen oak (112) Quercus ilex	30.5	0.07	0.6	79	4	Elite tree
evergreen oak (500) Quercus ilex	30	0.07	0.6	83	4	Elite tree
evergreen oak (397) Quercus ilex	30	0.07	0.7	93	4	Elite tree
evergreen oak (77) Quercus ilex	30	0.07	0.6	81	4	Elite tree
evergreen oak (371) Quercus ilex	30	0.07	0.7	89	10	Elite tree
evergreen oak (74) Quercus ilex	29.5	0.07	0.5	67	38	Veteran tree
evergreen oak (218) Quercus ilex	29.5	0.07	0.7	85	4	Elite tree
evergreen oak (288) Quercus ilex	29	0.07	0.5	67	26	Veteran tree
evergreen oak (934) Quercus ilex	29	0.07	0.7	85	6	Veteran tree
evergreen oak (522) Quercus ilex	29	0.07	0.6	75	4	Elite tree
evergreen oak (465) Quercus ilex	29	0.07	0.6	84	8	Elite tree
evergreen oak (408) Quercus ilex	28.5	0.06	0.6	77	0	Elite tree
evergreen oak (299) Quercus ilex	28.5	0.06	0.6	74	4	Elite tree
evergreen oak (360) Quercus ilex	28	0.06	0.6	78	0	Veteran tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (1030) <i>Quercus ilex</i>	28	0.06	0.6	75	4	Elite tree
evergreen oak (532) <i>Quercus ilex</i>	28	0.06	0.5	68	6	Veteran tree
evergreen oak (169) <i>Quercus ilex</i>	27.5	0.06	0.5	68	4	Elite tree
evergreen oak (868) <i>Quercus ilex</i>	27.5	0.06	0.5	71	11	Elite tree
evergreen oak (234) <i>Quercus ilex</i>	26.5	0.06	0.5	64	15	Veteran tree
evergreen oak (677) <i>Quercus ilex</i>	26	0.05	0.4	46	4	Elite tree
evergreen oak (375) <i>Quercus ilex</i>	26	0.05	0.4	54	0	Veteran tree
evergreen oak (366) <i>Quercus ilex</i>	26	0.05	0.5	65	4	Diversity
evergreen oak (247) <i>Quercus ilex</i>	25	0.05	0.5	59	10	Elite tree
evergreen oak (531) <i>Quercus ilex</i>	25	0.05	0.4	54	24	Veteran tree
evergreen oak (216) <i>Quercus ilex</i>	25	0.05	0.4	55	4	Elite tree
evergreen oak (306) <i>Quercus ilex</i>	25	0.05	0.5	62	10	Elite tree
evergreen oak (238) <i>Quercus ilex</i>	24.5	0.05	0.4	53	10	Elite tree
evergreen oak (274) <i>Quercus ilex</i>	24	0.05	0.4	53	40	Veteran tree
evergreen oak (266) <i>Quercus ilex</i>	24	0.05	0.4	47	21	Habitat tree
evergreen oak (160) <i>Quercus ilex</i>	23.5	0.04	0.4	47	8	Elite tree
evergreen oak (941) <i>Quercus ilex</i>	23.5	0.04	0.4	51	4	Elite tree
evergreen oak (75) <i>Quercus ilex</i>	23.5	0.04	0.3	44	34	Veteran tree
evergreen oak (786) <i>Quercus ilex</i>	23	0.04	0.3	39	36	Habitat tree
evergreen oak (53) <i>Quercus ilex</i>	23	0.04	0.2	32	30	Veteran tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus virgiliiana						
evergreen oak (259) Quercus ilex	22.5	0.04	0.3	43	4	Veteran tree
evergreen oak (291) Quercus ilex	21.5	0.04	0.3	41	14	Elite tree
evergreen oak (41) Quercus ilex	21	0.04	0.2	32	8	Habitat tree
evergreen oak (466) Quercus ilex	21	0.04	0.3	41	4	Diversity
evergreen oak (656) Quercus ilex	21	0.04	0.3	33	4	Habitat tree
evergreen oak (520) Quercus ilex	20.5	0.03	0.3	33	4	Veteran tree
evergreen oak (523) Quercus ilex	19.5	0.03	0.3	41	4	Diversity
evergreen oak (623) Quercus ilex	19	0.03	0.2	22	4	Habitat tree
evergreen oak (332) Quercus ilex	19	0.03	0.3	33	8	Veteran tree
evergreen oak (712) Quercus ilex	19	0.03	0.2	28	4	Elite tree
evergreen oak (44) Quercus ilex	17.5	0.02	0.2	22	0	Habitat tree
evergreen oak (42) Quercus ilex	17.5	0.02	0.2	21	0	Habitat tree
evergreen oak (40) Quercus ilex	17.5	0.02	0.2	21	6	Habitat tree
evergreen oak (492) Quercus ilex	17	0.02	0.2	27	6	Diversity
evergreen oak (62) Quercus ilex	17	0.02	0.2	23	0	Elite tree
evergreen oak (43) Quercus ilex	17	0.02	0.2	21	0	Habitat tree
strawberry tree (19) Arbutus unedo	15.5	0.02	0.1	10	0	Habitat tree
evergreen oak (58) Quercus ilex	15	0.02	0.1	17	12	Veteran tree
evergreen oak (298) Quercus ilex	14	0.02	0	4	10	Veteran tree
evergreen oak (52) Quercus ilex	12.5	0.01	0.1	9	0	Habitat tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (46) Quercus ilex	12.5	0.01	0.1	10	0	Habitat tree
evergreen oak (55) Quercus ilex	12	0.01	0.1	8	0	Habitat tree
evergreen oak (45) Quercus ilex	12	0.01	0.1	10	0	Habitat tree
evergreen oak (940) Quercus ilex	11.5	0.01	0	6	6	Veteran tree
evergreen oak (54) Quercus ilex	10.5	0.01	0	6	0	Habitat tree
evergreen oak (56) Quercus ilex	9.5	0.01	0	5	4	Habitat tree