Stand data (before intervention): Monte Arci-Sardegna

**Integrate+**

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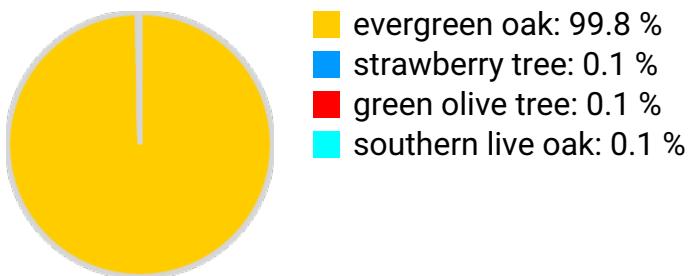
DBH distribution of the stand
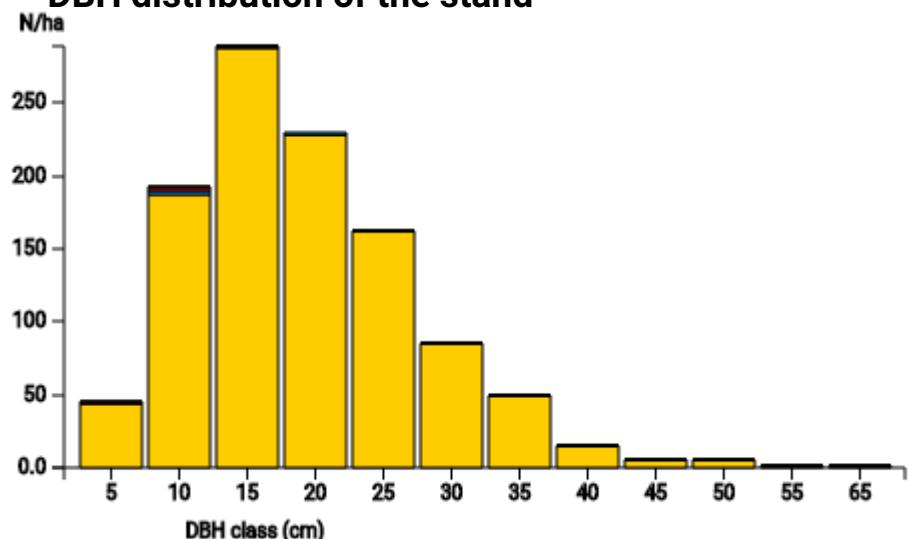
Initial stand (details by tree species)

| Tree species	N/ha	Basal area (m²)	Volume (m³)	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: 48 m³
Basal area: 5.2 m²
Economic value: 6233 €
Habitat value: 956 pts.

Removed trees (N in %)

- evergreen oak: 100 %
- strawberry tree: 0 %
- green olive tree: 0 %
- southern live oak: 0 %
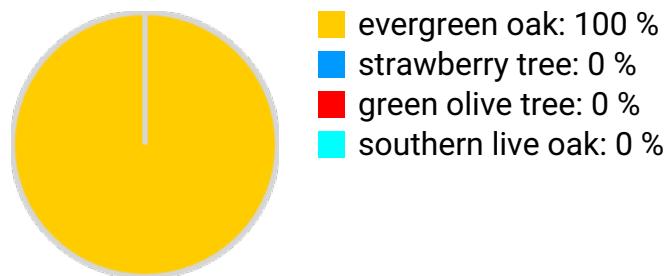
DBH distribution of removed trees

N/ha

DBH class (cm)
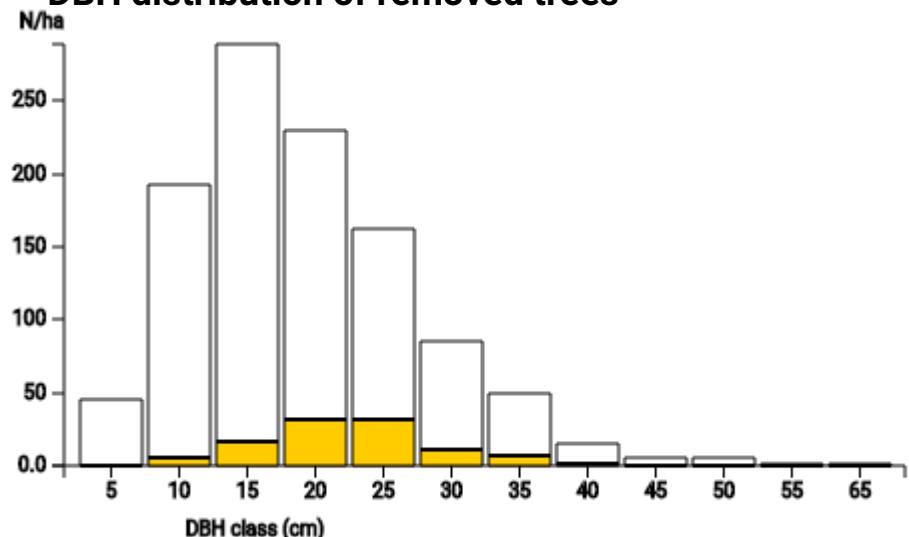
Removed trees (details by tree species)

Tree species	N/ha	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	103	5.2	47.9	6233	956	156
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	103	5.2	47.9	6233	956	156

Economic value [EUR]
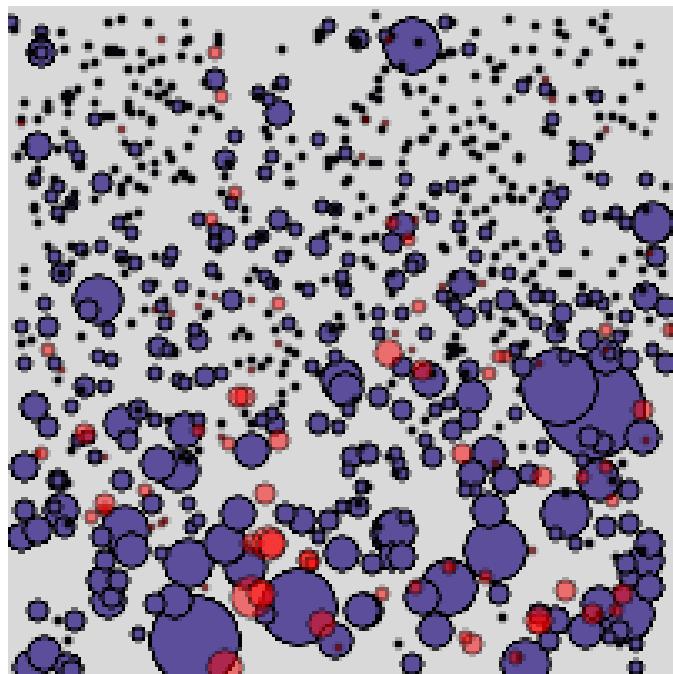
Habitat value
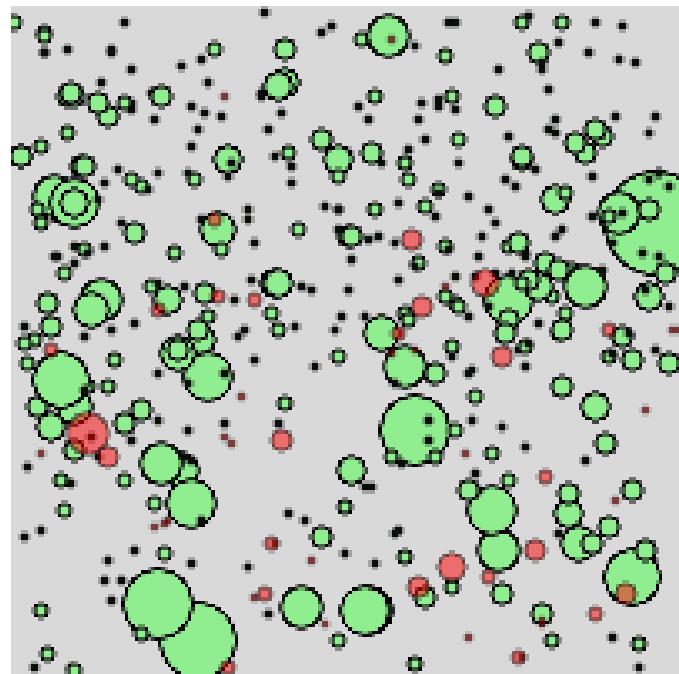
Basal area [m²]
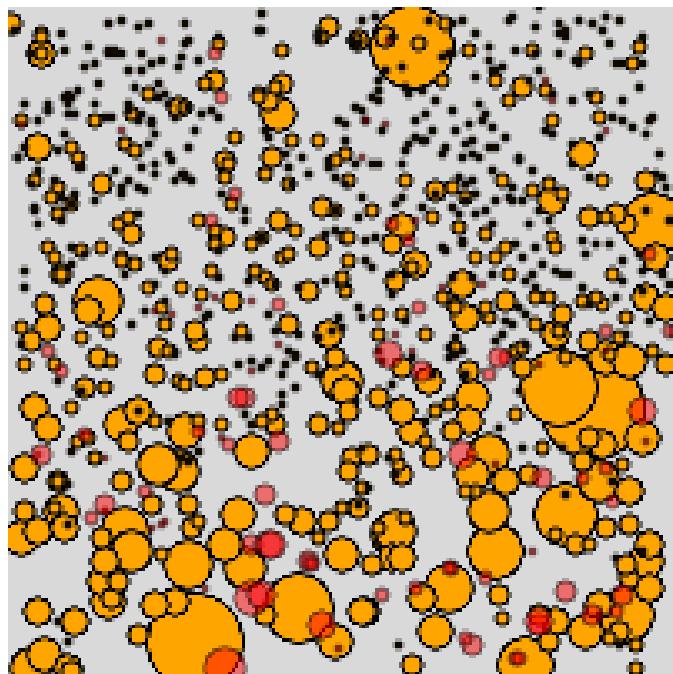
Volume [m³]
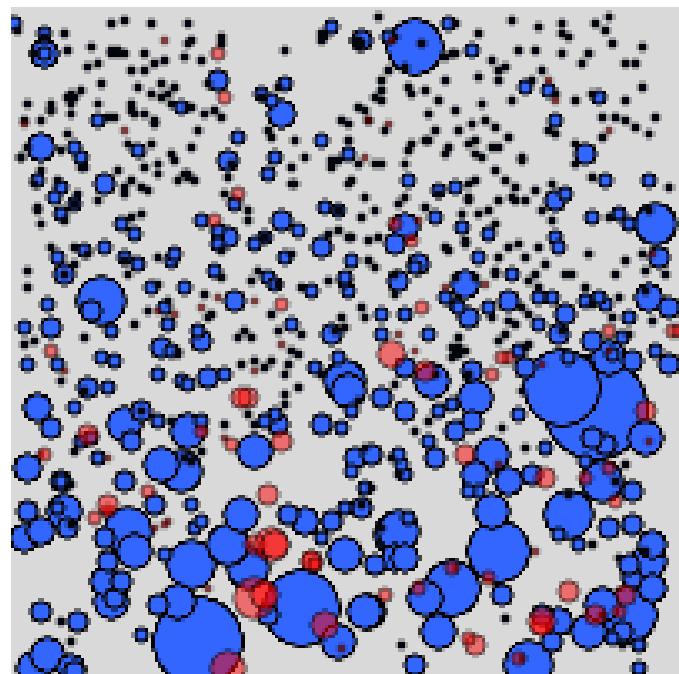
Description:

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: 6233 €
Percentage of total stand value: 12.5 %
Stand value after harvest: 43682 €

Economic value by tree species [€]

Tree species	Total	Per m³
evergreen oak	6233	130
strawberry tree	0	0
green olive tree	0	0
southern live oak	0	0
Total	6233	130

Wood quality distribution (m³ in %)
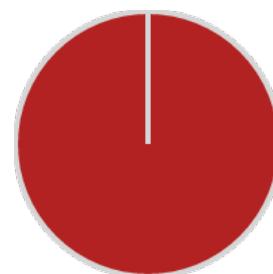
- A
- B
- C
- IT
- F

Quality class	m³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	0	0
Fuelwood	48	100

Habitat values

Total habitat value of removed trees: 956 pts.
Percentage of total stand value: 10.1 %
Stand value after harvest: 8490 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m³	Microhabitats [N]
evergreen oak	956	19.9	156
strawberry tree	0	0	0
green olive tree	0	0	0
southern live oak	0	0	0
Total	956	19.9	156

Habitat value (points) of removed trees by species (in %)
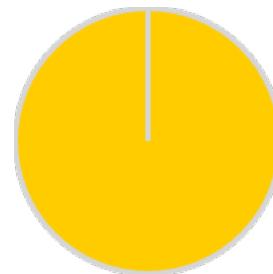
- evergreen oak (100 %)
- strawberry tree (0 %)
- green olive tree (0 %)
- southern live oak (0 %)

Remaining stand

Volume: 336.6 m³
Basal area: 40.4 m²
Economic value: 43682 €
Habitat value: 8490 pts.

Remaining trees by volume (m³ in %)

■ evergreen oak: 99.8 %
■ strawberry tree: 0.1 %
■ green olive tree: 0.1 %
■ southern live oak: 0.1 %
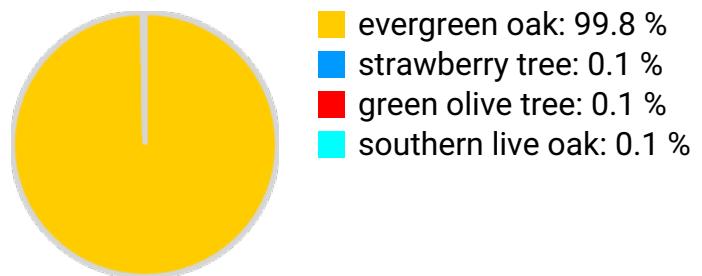
DBH distribution after removal
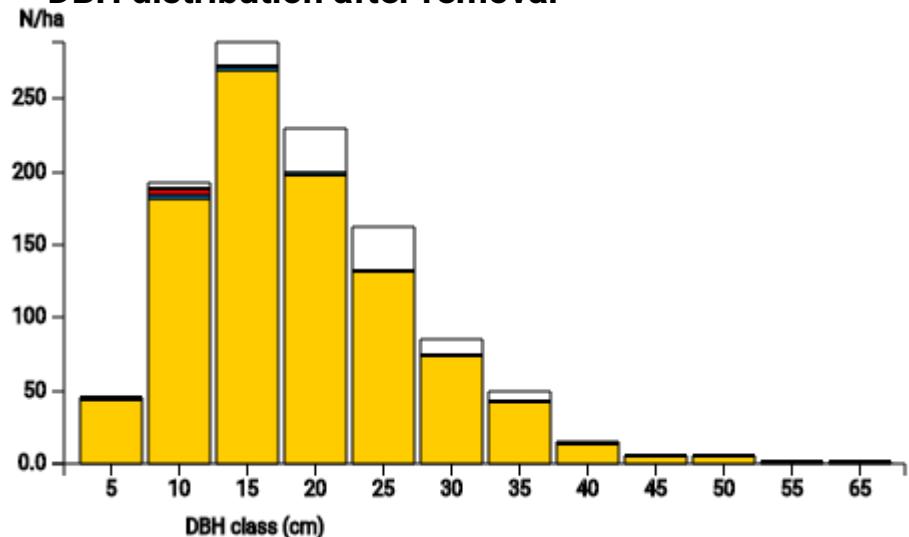
Remaining stand (details by tree species)

Tree species	N/ha	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	971	39.4	335.2	43578	8446	1220
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	981	39.5	336	43682	8490	1225

Retention trees

Volume: 59.2 m³
Elite trees: 40
Habitat trees: 10
Economic value: 7700 €
Habitat value: 1128 pts.

Retention trees by volume (m³ in %)

- evergreen oak: 100 %
- strawberry tree: 0 %
- green olive tree: 0 %
- southern live oak: 0 %
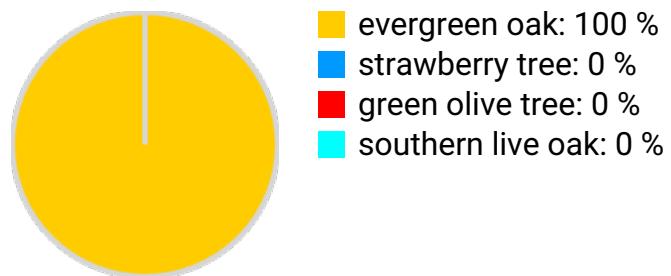
DBH distribution of retention trees
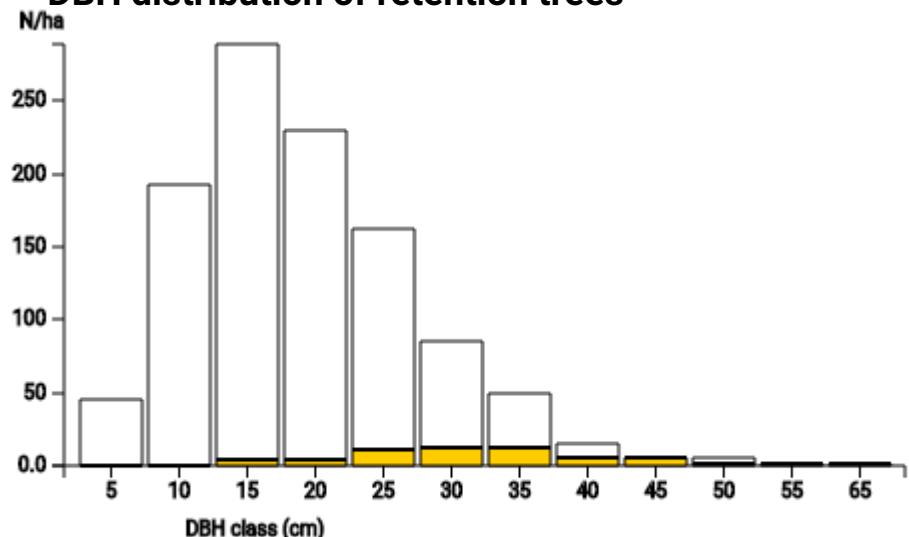
Retained trees (details by tree species)

Tree species	N/ha	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	59	6.3	59.2	7700	1128	134
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	59	6.3	59.2	7700	1128	134

Number of habitat trees	[N]	10
Habitat value	pts.	636
	[% of total]	6.7
Economic value	[€]	2216
	[% of total]	4.4
Number of microhabitats	[N]	56
	[% of total]	4.1

Habitat tree distribution by species (N in %)

■ evergreen oak: 100 %
■ strawberry tree: 0 %
■ green olive tree: 0 %
■ southern live oak: 0 %
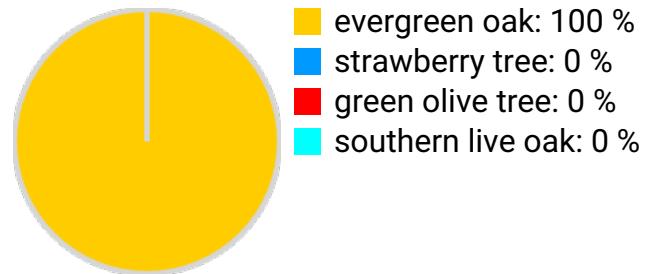
Spatial distribution of habitat trees
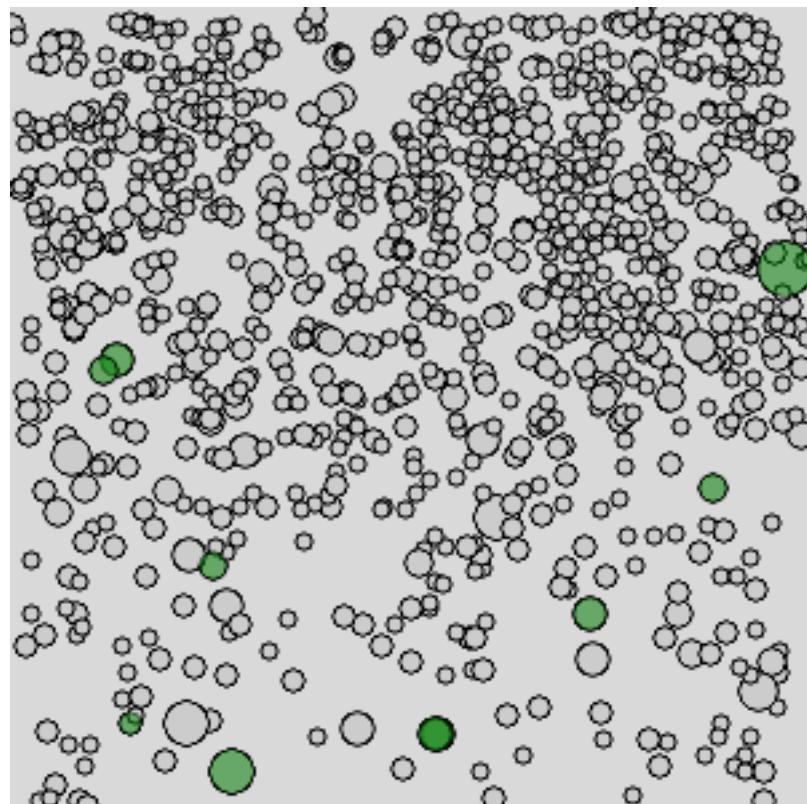
Reasons for removal
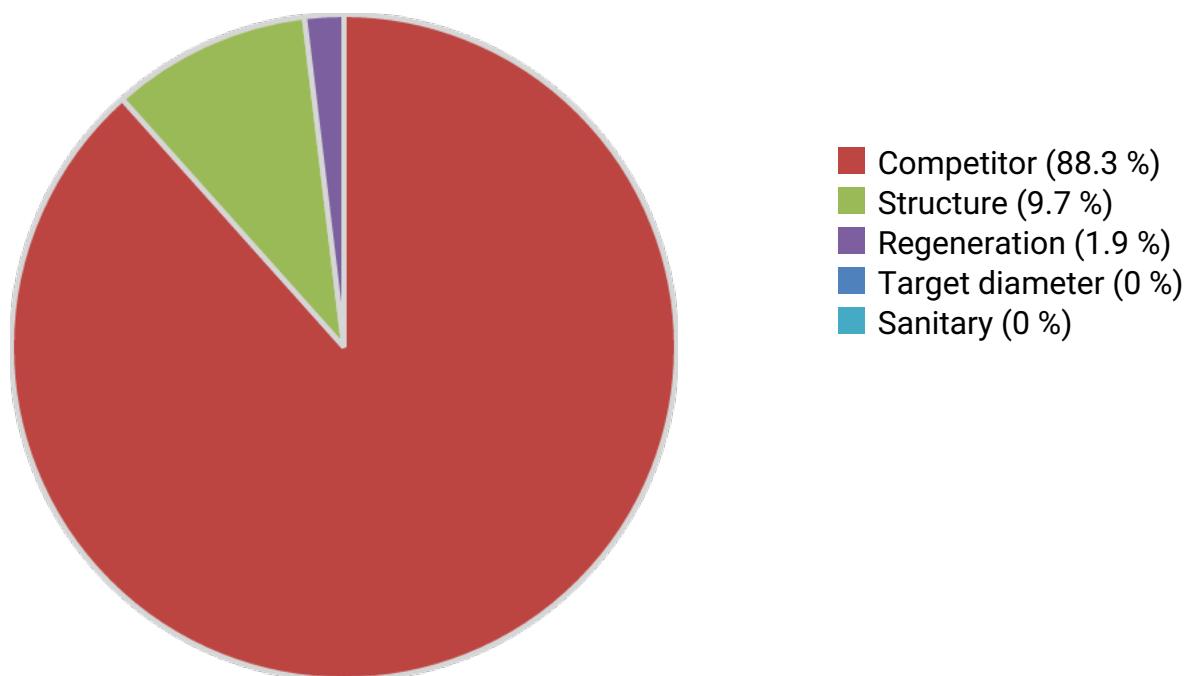
- Competitor (88.3 %)
- Structure (9.7 %)
- Regeneration (1.9 %)
- Target diameter (0 %)
- Sanitary (0 %)

Reasons for retention
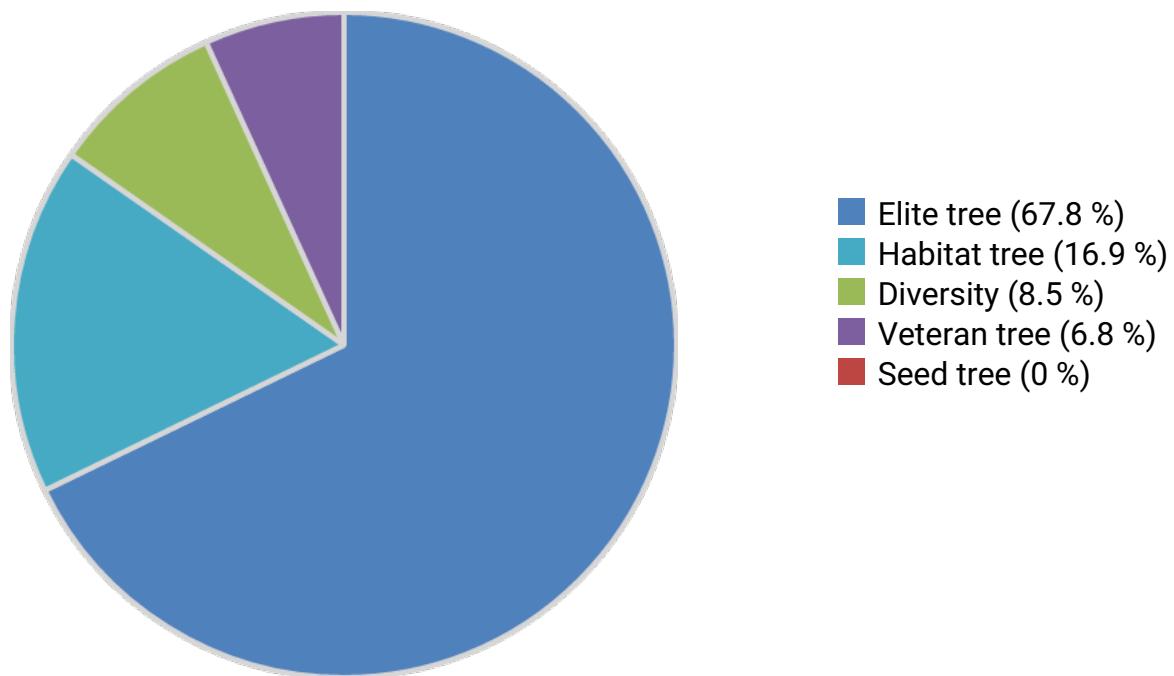
- Elite tree (67.8 %)
- Habitat tree (16.9 %)
- Diversity (8.5 %)
- Veteran tree (6.8 %)
- Seed tree (0 %)

Distribution of tree microhabitats by code (N total)
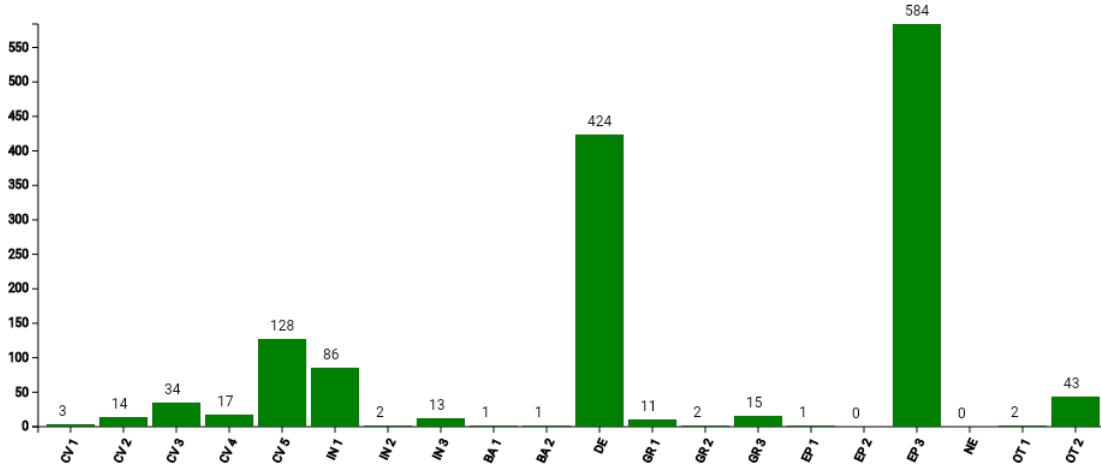
Removed tree microhabitats by code (N removed)
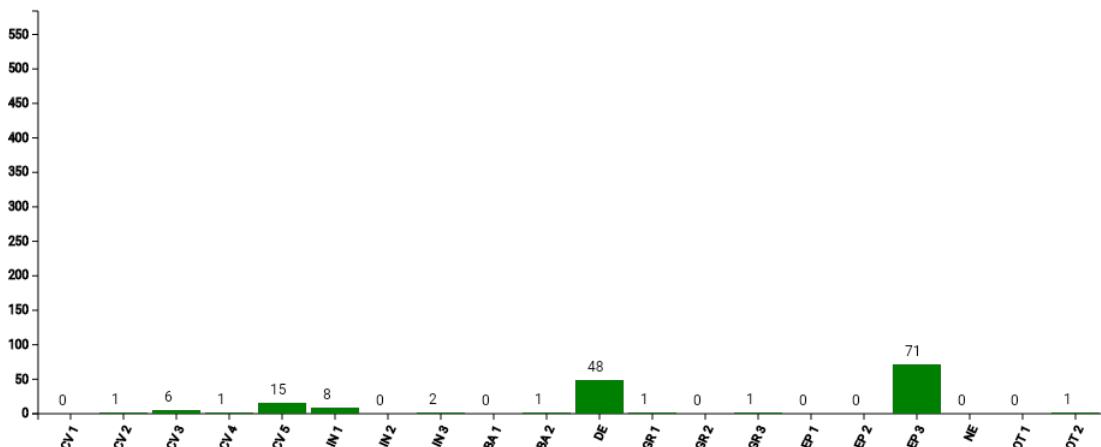
Remaining tree microhabitats by code (N after harvest)
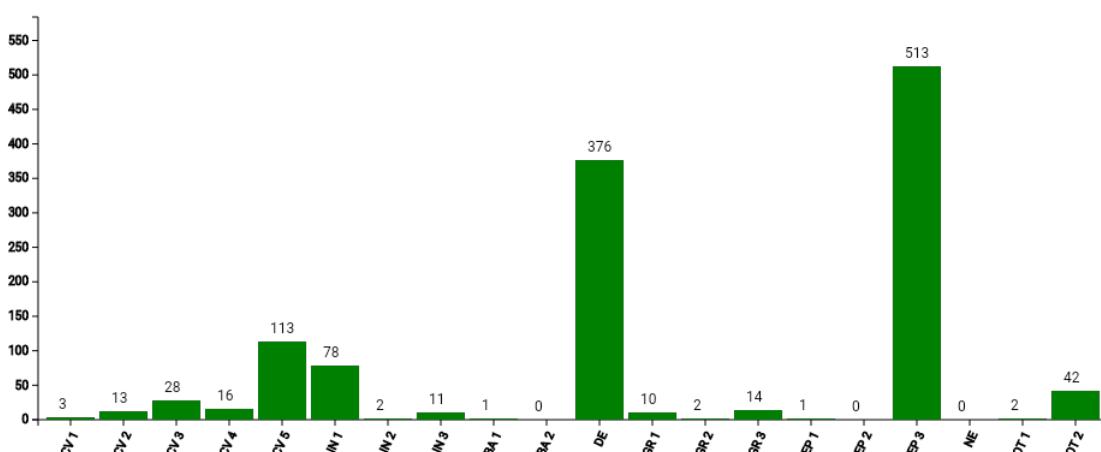
For more details on codes consult the field guide "Catalogue of tree microhabitats" or the tree microhabitat app.

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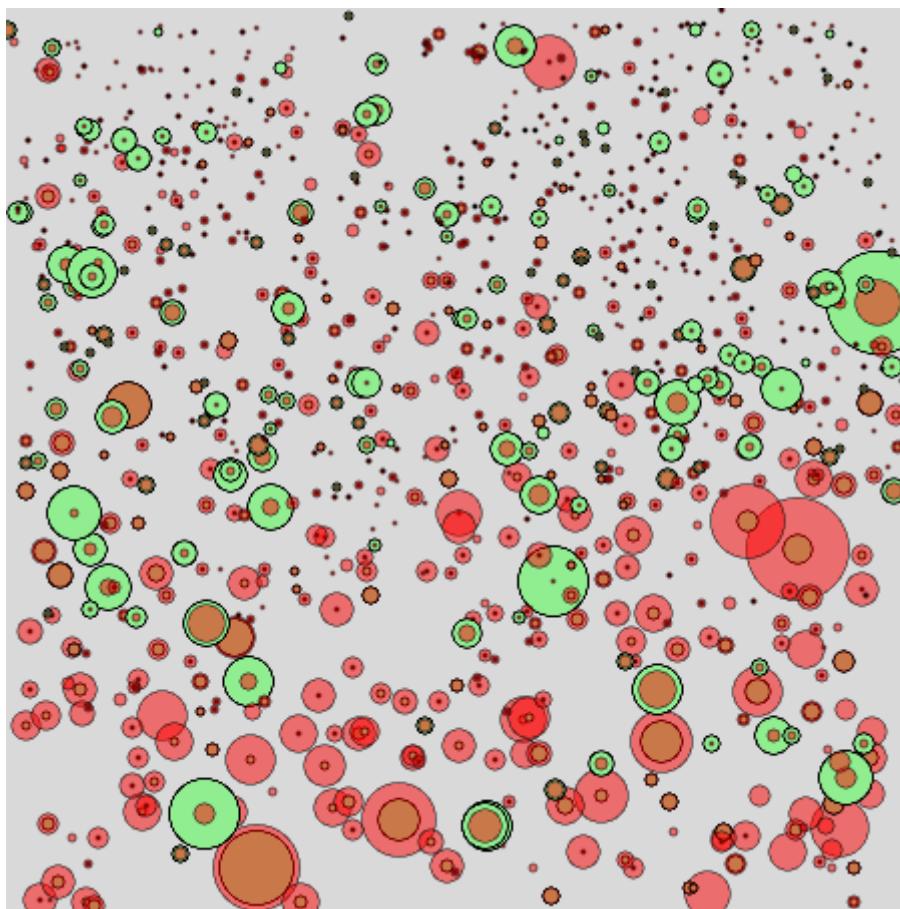
Description:
Overlay of economic and habitat value: red circles (economic value), green circles (habitat value); circle size according to numerical values (e.g. large circles mean high values); trees with very low values are not visible. Trees where both values overlap considerably represent so called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

Removed trees

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (450) Quercus ilex	42	0.14	1.3	174	16	Competitor
evergreen oak (437) Quercus ilex	39	0.12	1.4	179	10	Competitor
evergreen oak (425) Quercus ilex	37	0.11	1.2	160	14	Competitor
evergreen oak (508) Quercus ilex	36.5	0.11	0.8	110	8	Competitor
evergreen oak (438) Quercus ilex	36	0.1	1	134	14	Competitor
evergreen oak (458) Quercus ilex	36	0.1	1	130	10	Competitor
evergreen oak (586) Quercus ilex	35	0.1	0.9	116	12	Competitor
evergreen oak (579) Quercus ilex	35	0.1	0.9	121	10	Structure
evergreen oak (426) Quercus ilex	33.5	0.09	1	127	10	Competitor
evergreen oak (489) Quercus ilex	33	0.09	0.8	100	12	Competitor
evergreen oak (573) Quercus ilex	32	0.08	0.8	103	30	Competitor
evergreen oak (391) Quercus ilex	32	0.08	0.8	105	4	Competitor
evergreen oak (574) Quercus ilex	32	0.08	0.7	89	0	Competitor
evergreen oak (598) Quercus ilex	32	0.08	0.7	88	4	Competitor
evergreen oak (475) Quercus ilex	32	0.08	0.8	107	4	Competitor
evergreen oak (427) Quercus ilex	31	0.08	0.8	106	4	Structure
evergreen oak (351) Quercus ilex	30.5	0.07	0.7	90	4	Regeneration
evergreen oak (587) Quercus ilex	30	0.07	0.7	94	6	Competitor
evergreen oak (589) Quercus ilex	30	0.07	0.8	100	14	Competitor
evergreen oak (463) Quercus ilex	29	0.07	0.6	79	28	Competitor
evergreen oak (390) Quercus ilex	29	0.07	0.6	81	25	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (380) Quercus ilex	29	0.07	0.6	73	4	Competitor
evergreen oak (424) Quercus ilex	29	0.07	0.6	84	4	Competitor
evergreen oak (535) Quercus ilex	29	0.07	0.6	82	16	Competitor
evergreen oak (352) Quercus ilex	29	0.07	0.7	88	6	Regeneration
evergreen oak (399) Quercus ilex	29	0.07	0.7	91	4	Competitor
evergreen oak (470) Quercus ilex	28	0.06	0.5	65	4	Competitor
evergreen oak (361) Quercus ilex	28	0.06	0.6	82	59	Competitor
evergreen oak (597) Quercus ilex	28	0.06	0.6	79	12	Competitor
evergreen oak (428) Quercus ilex	28	0.06	0.7	88	10	Structure
evergreen oak (1072) Quercus ilex	28	0.06	0.5	70	20	Competitor
evergreen oak (231) Quercus ilex	27.5	0.06	0.6	74	14	Competitor
evergreen oak (540) Quercus ilex	27	0.06	0.5	65	8	Competitor
evergreen oak (327) Quercus ilex	27	0.06	0.6	73	20	Competitor
evergreen oak (1000) Quercus ilex	27	0.06	0.5	68	30	Competitor
evergreen oak (51) Quercus ilex	27	0.06	0.4	53	0	Competitor
evergreen oak (536) Quercus ilex	27	0.06	0.5	71	4	Competitor
evergreen oak (935) Quercus ilex	27	0.06	0.5	66	24	Competitor
evergreen oak (570) Quercus ilex	26	0.05	0.5	65	18	Competitor
evergreen oak (903) Quercus ilex	26	0.05	0.4	54	4	Competitor
evergreen oak (388) Quercus ilex	26	0.05	0.5	59	6	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (375) Quercus ilex	26	0.05	0.4	54	0	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 (518) Quercus ilex	25.5	0.05	0.5	63	4	Competitor
evergreen oak (568) Quercus ilex	25.5	0.05	0.6	79	28	Competitor
evergreen oak (592) Quercus ilex	25.5	0.05	0.5	69	0	Competitor
evergreen oak (1016) Quercus ilex	25	0.05	0.4	48	0	Competitor
evergreen oak (1078) Quercus ilex	25	0.05	0.4	58	10	Competitor
evergreen oak (216) Quercus ilex	25	0.05	0.4	55	4	Competitor
evergreen oak (601) Quercus ilex	24	0.05	0.4	52	18	Competitor
evergreen oak (464) Quercus ilex	24	0.05	0.4	58	4	Competitor
evergreen oak (412) Quercus ilex	24	0.05	0.4	58	0	Competitor
evergreen oak (562) Quercus ilex	24	0.05	0.4	49	4	Structure
evergreen oak (1079) Quercus ilex	24	0.05	0.4	52	6	Competitor
evergreen oak (429) Quercus ilex	24	0.05	0.4	55	4	Structure
evergreen oak (563) Quercus ilex	23.5	0.04	0.4	52	34	Structure
evergreen oak (109) Quercus ilex	23.5	0.04	0.4	49	8	Competitor
evergreen oak (567) Quercus ilex	23	0.04	0.4	51	4	Competitor
evergreen oak (602) Quercus ilex	23	0.04	0.3	45	12	Competitor
evergreen oak (325) Quercus ilex	22.5	0.04	0.4	47	4	Competitor
evergreen oak (403)	22	0.04	0.3	43	6	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (401) Quercus ilex	22	0.04	0.4	50	4	Competitor
evergreen oak (374) Quercus ilex	22	0.04	0.3	42	10	Competitor
evergreen oak (436) Quercus ilex	22	0.04	0.3	44	0	Competitor
evergreen oak (293) Quercus ilex	22	0.04	0.3	44	4	Competitor
evergreen oak (1029) Quercus ilex	22	0.04	0.3	42	20	Competitor
evergreen oak (291) Quercus ilex	21.5	0.04	0.3	41	14	Competitor
evergreen oak (279) Quercus ilex	21.5	0.04	0.3	40	16	Competitor
evergreen oak (410) Quercus ilex	21	0.04	0.3	44	10	Competitor
evergreen oak (581) Quercus ilex	21	0.04	0.3	37	4	Structure
evergreen oak (808) Quercus ilex	21	0.04	0.2	29	4	Competitor
evergreen oak (466) Quercus ilex	21	0.04	0.3	41	4	Competitor
evergreen oak (383) Quercus ilex	21	0.04	0.3	37	26	Competitor
evergreen oak (1082) Quercus ilex	21	0.04	0.3	41	0	Structure
evergreen oak (520) Quercus ilex	20.5	0.03	0.3	33	4	Competitor
evergreen oak (827) Quercus ilex	20	0.03	0.3	33	4	Competitor
evergreen oak (516) Quercus ilex	20	0.03	0.2	25	4	Competitor
evergreen oak (652) Quercus ilex	20	0.03	0.2	26	8	Competitor
evergreen oak (409) Quercus ilex	20	0.03	0.3	35	6	Competitor
evergreen oak (459) Quercus ilex	20	0.03	0.3	38	10	Competitor
evergreen oak (1004) Quercus ilex	19.5	0.03	0.3	33	34	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (281) Quercus ilex	19.5	0.03	0.3	34	20	Competitor
evergreen oak (750) Quercus ilex	19	0.03	0.2	28	4	Competitor
evergreen oak (400) Quercus ilex	19	0.03	0.3	37	4	Competitor
evergreen oak (718) Quercus ilex	19	0.03	0.2	24	4	Competitor
evergreen oak (751) Quercus ilex	19	0.03	0.2	29	4	Competitor
evergreen oak (762) Quercus ilex	19	0.03	0.2	27	0	Competitor
evergreen oak (1002) Quercus ilex	19	0.03	0.3	34	10	Competitor
evergreen oak (125) Quercus ilex	18.5	0.03	0.2	29	4	Competitor
evergreen oak (134) Quercus ilex	18	0.03	0.2	25	0	Competitor
evergreen oak (340) Quercus ilex	18	0.03	0.2	28	4	Structure
evergreen oak (379) Quercus ilex	18	0.03	0.2	24	12	Competitor
evergreen oak (318) Quercus ilex	16.5	0.02	0.2	24	4	Competitor
evergreen oak (292) Quercus ilex	16.5	0.02	0.2	24	4	Competitor
evergreen oak (560) Quercus ilex	16	0.02	0.2	20	24	Structure
evergreen oak (27) Quercus ilex	16	0.02	0.1	18	0	Competitor
evergreen oak (905) Quercus ilex	15.5	0.02	0.2	21	0	Competitor
evergreen oak (664) Quercus ilex	13.5	0.01	0.1	12	4	Competitor
evergreen oak (880) Quercus ilex	13	0.01	0.1	12	4	Competitor
evergreen oak (582) Quercus ilex	13	0.01	0.1	13	0	Competitor
evergreen oak (28) Quercus ilex	12	0.01	0.1	10	0	Competitor
evergreen oak (12)	12	0.01	0.1	9	0	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						

Retention trees

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (490) Quercus ilex	67	0.35	3.7	475	40	Habitat tree
evergreen oak (449) Quercus ilex	65.5	0.34	3.1	408	100	Habitat tree
evergreen oak (651) Quercus ilex	59	0.27	1.9	249	8	Elite tree
evergreen oak (977) Quercus ilex	53	0.22	1.6	204	140	Habitat tree
evergreen oak (603) Quercus ilex	50	0.2	1.6	209	0	Elite tree
evergreen oak (593) Quercus ilex	48	0.18	2	265	0	Elite tree
evergreen oak (286) Quercus ilex	47.5	0.18	1.6	208	60	Habitat tree
evergreen oak (431) Quercus ilex	47	0.17	1.7	220	10	Elite tree
evergreen oak (569) Quercus ilex	47	0.17	1.9	244	18	Elite tree
evergreen oak (411) Quercus ilex	46	0.17	1.8	231	0	Elite tree
evergreen oak (392) Quercus ilex	43	0.15	1.5	194	48	Habitat tree
evergreen oak (542) Quercus ilex	43	0.15	1.3	167	66	Habitat tree
evergreen oak (537) Quercus ilex	42	0.14	1.4	176	0	Elite tree
evergreen oak (430) Quercus ilex	42	0.14	1.5	197	10	Elite tree
evergreen oak (509) Quercus ilex	41	0.13	1.3	170	16	Elite tree
evergreen oak (515) Quercus ilex	40	0.13	1.2	161	4	Elite tree
evergreen oak (444) Quercus ilex	39.5	0.12	1.3	166	12	Habitat tree
evergreen oak (405) Quercus ilex	39	0.12	1.2	154	4	Elite tree
evergreen oak (583) Quercus ilex	38	0.11	1.1	147	4	Elite tree
evergreen oak (414) Quercus ilex	38	0.11	1.2	160	16	Veteran tree
evergreen oak (376)	38	0.11	1.2	150	10	Elite tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (389) Quercus ilex	38	0.11	1.1	147	4	Elite tree
evergreen oak (1003) Quercus ilex	37	0.11	1	125	4	Elite tree
evergreen oak (577) Quercus ilex	37	0.11	1.2	150	66	Habitat tree
evergreen oak (578) Quercus ilex	37	0.11	1.1	148	62	Habitat tree
evergreen oak (588) Quercus ilex	37	0.11	1	136	4	Elite tree
evergreen oak (576) Quercus ilex	37	0.11	1.3	169	24	Diversity
evergreen oak (904) Quercus ilex	35.5	0.1	0.9	120	4	Elite tree
evergreen oak (846) Quercus ilex	34	0.09	0.6	83	30	Elite tree
evergreen oak (354) Quercus ilex	34	0.09	0.8	106	4	Veteran tree
evergreen oak (1015) Quercus ilex	34	0.09	0.7	97	10	Elite tree
evergreen oak (289) Quercus ilex	33.5	0.09	0.7	97	42	Habitat tree
evergreen oak (440) Quercus ilex	32	0.08	0.7	95	6	Elite 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 (280) Quercus ilex	31.5	0.08	0.7	92	10	Elite tree
evergreen oak (476) Quercus ilex	31	0.08	0.7	89	52	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 (402) Quercus ilex	30	0.07	0.7	85	16	Elite tree
evergreen oak (1085) Quercus ilex	29.5	0.07	0.7	86	32	Veteran tree

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (465) Quercus ilex	29	0.07	0.6	84	8	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 (735) Quercus ilex	28	0.06	0.4	54	6	Elite tree
evergreen oak (303) Quercus ilex	28	0.06	0.5	65	4	Elite tree
evergreen oak (357) Quercus ilex	27	0.06	0.5	63	42	Diversity
evergreen oak (1081) Quercus ilex	27	0.06	0.6	78	10	Elite tree
evergreen oak (467) Quercus ilex	26	0.05	0.4	58	8	Elite tree
evergreen oak (330) Quercus ilex	26	0.05	0.5	70	20	Elite tree
evergreen oak (135) Quercus ilex	23	0.04	0.4	46	0	Elite tree
evergreen oak (590) Quercus ilex	21	0.04	0.4	47	0	Diversity
evergreen oak (469) Quercus ilex	21	0.04	0.3	39	0	Diversity
evergreen oak (780) Quercus ilex	20	0.03	0.2	29	4	Elite tree
evergreen oak (11) Quercus ilex	19	0.03	0.2	23	4	Elite tree
evergreen oak (127) Quercus ilex	18	0.03	0.2	30	32	Veteran tree
evergreen oak (341) Quercus ilex	18	0.03	0.2	29	10	Diversity
evergreen oak (120) Quercus ilex	15	0.02	0.1	16	4	Elite tree