

11/06/2021 Sardegna gruppo C 11giu

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

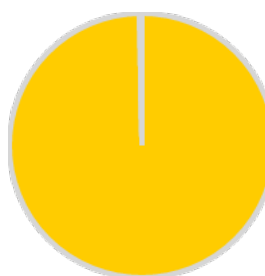
Natural forest community: Galio scabri-Quercetum ilicis

Mean annual temperature: 16.3 C;

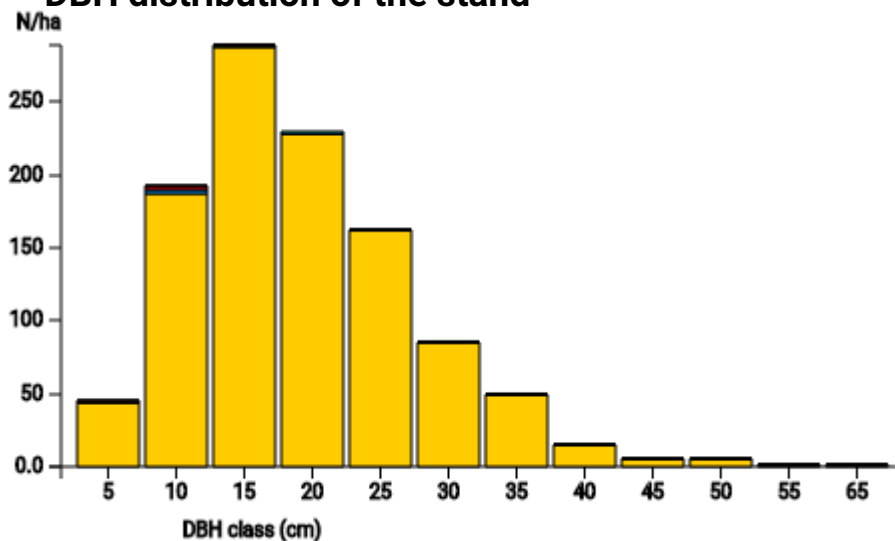
Mean annual precipitation: 674 mm; Ownership: Public

(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 %

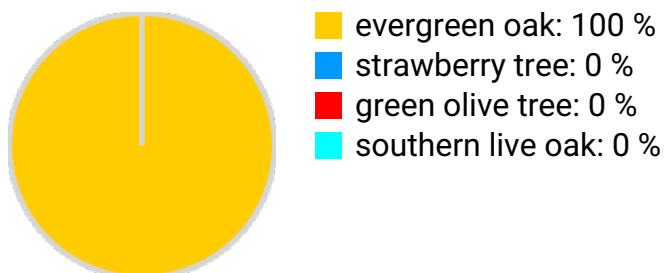
DBH distribution of the stand**Initial stand (details by tree species)**

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

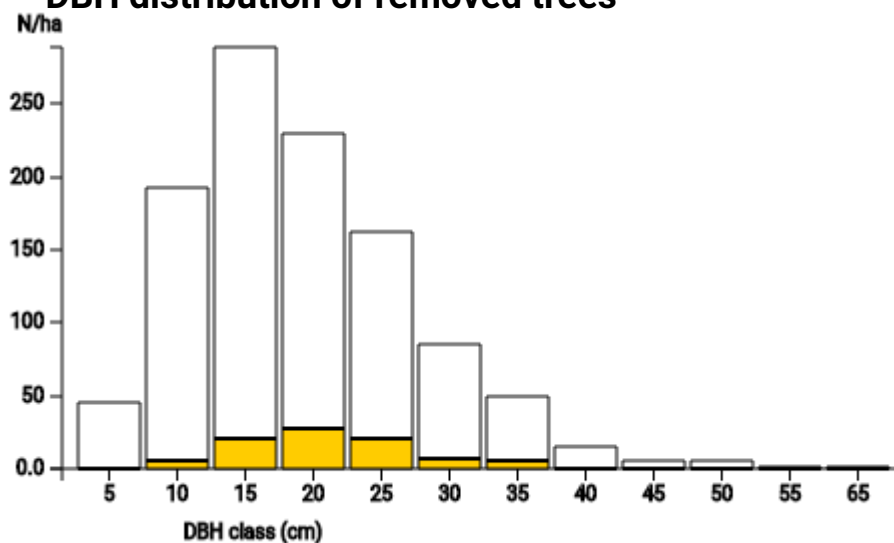
Removed trees

Volume: 34.3 m³
 Basal area: 3.9 m²
 Economic value: 4453 €
 Habitat value: 680 pts.

Removed trees (N in %)



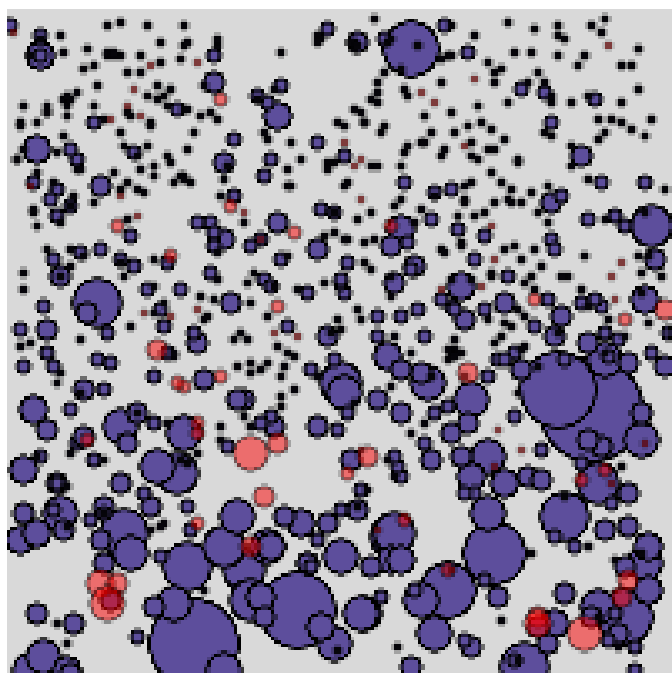
DBH distribution of removed trees



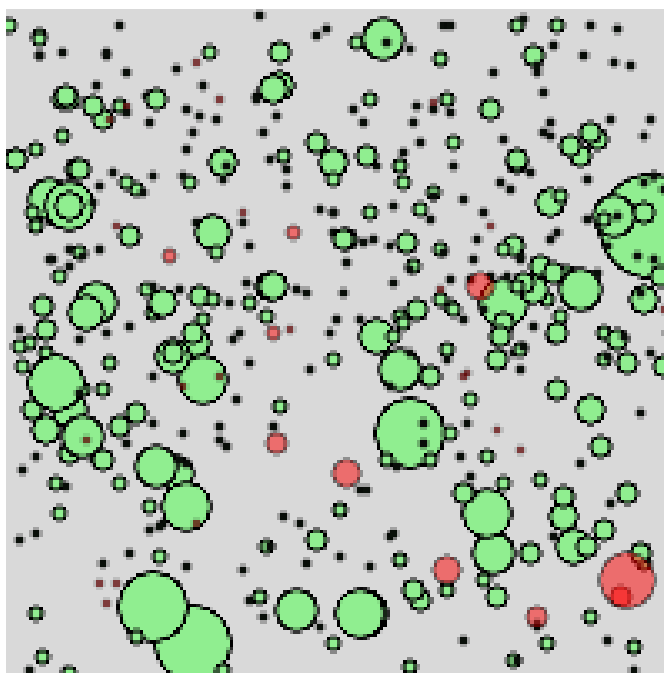
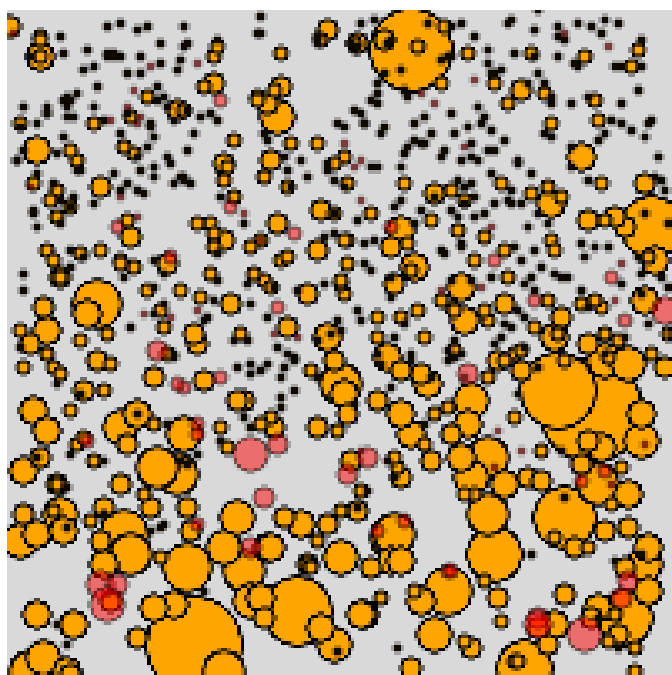
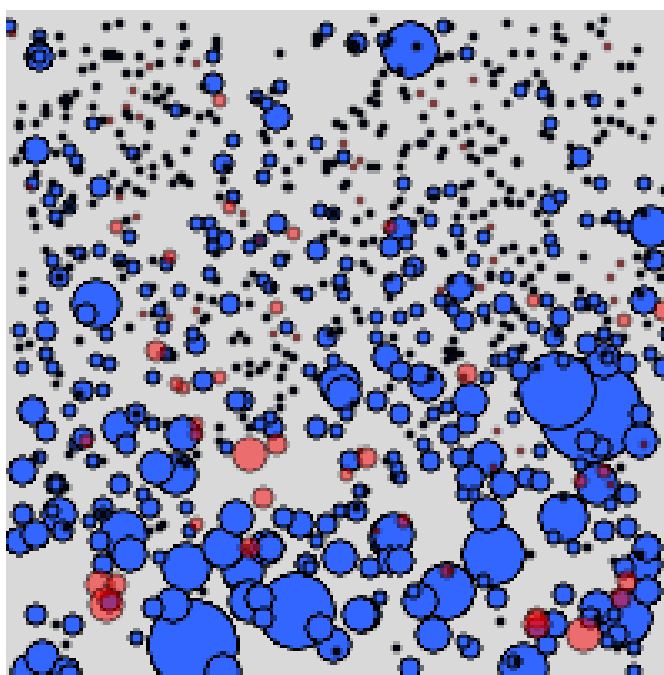
Removed trees (details by tree species)

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	86	3.9	34.3	4453	680	121
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	86	3.9	34.3	4453	680	121

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.

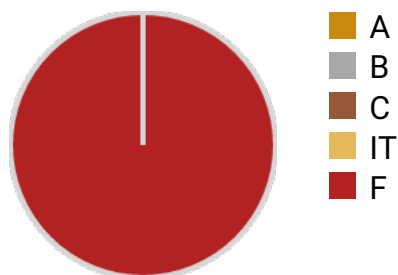
Economic values

Total value of removed trees: 4453 €
 Percentage of total stand value: 8.9 %
 Stand value after harvest: 45462 €

Economic value by tree species [€]

Tree species	Total	Per m ³
evergreen oak	4453	130
strawberry tree	0	0
green olive tree	0	0
southern live oak	0	0
Total	4453	130

Wood quality distribution (m³ in %)



Quality class	m ³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	0	0
Fuelwood	34.3	100

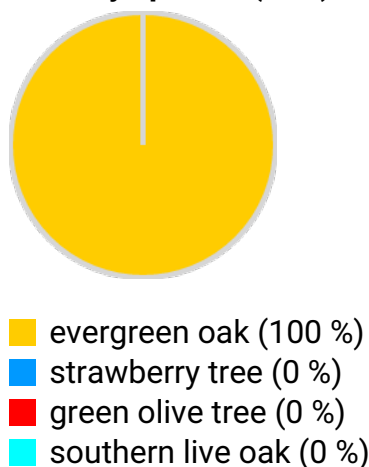
Habitat values

Total habitat value of removed trees: 680 pts.
 Percentage of total stand value: 7.2 %
 Stand value after harvest: 8766 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m ³	Microhabitats [N]
evergreen oak	680	19.9	121
strawberry tree	0	0	0
green olive tree	0	0	0
southern live oak	0	0	0
Total	680	19.9	121

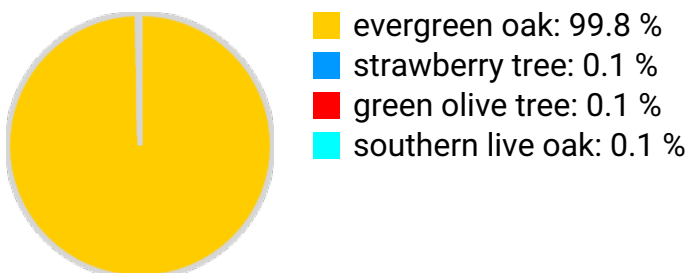
Habitat value (points) of removed trees by species (in %)



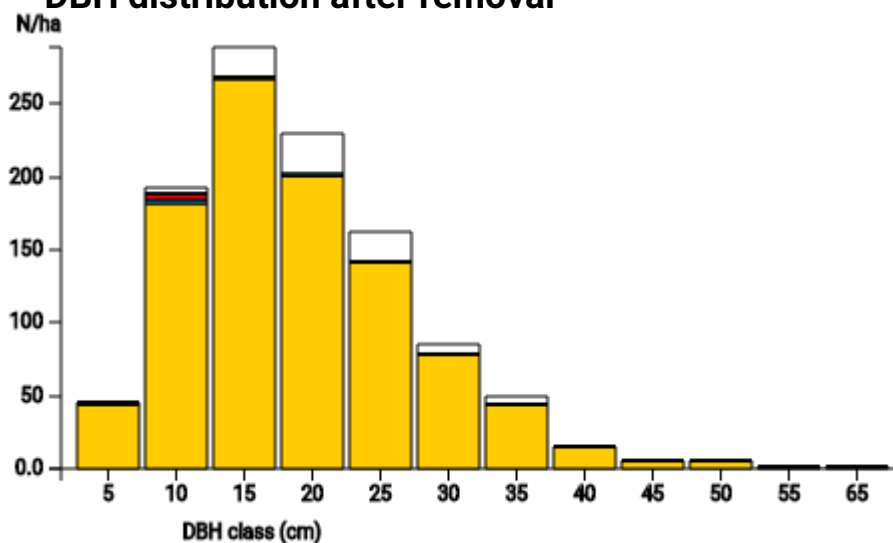
Remaining stand

Volume: 350.3 m³
 Basal area: 41.8 m²
 Economic value: 45462 €
 Habitat value: 8766 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	988	40.7	348.9	45358	8722	1255
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	998	40.9	349.7	45462	8766	1260

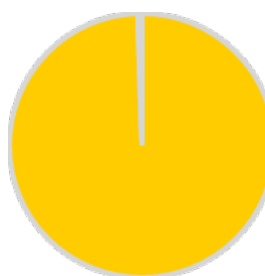
Retention treesVolume: 39.9 m³

Elite trees: 40

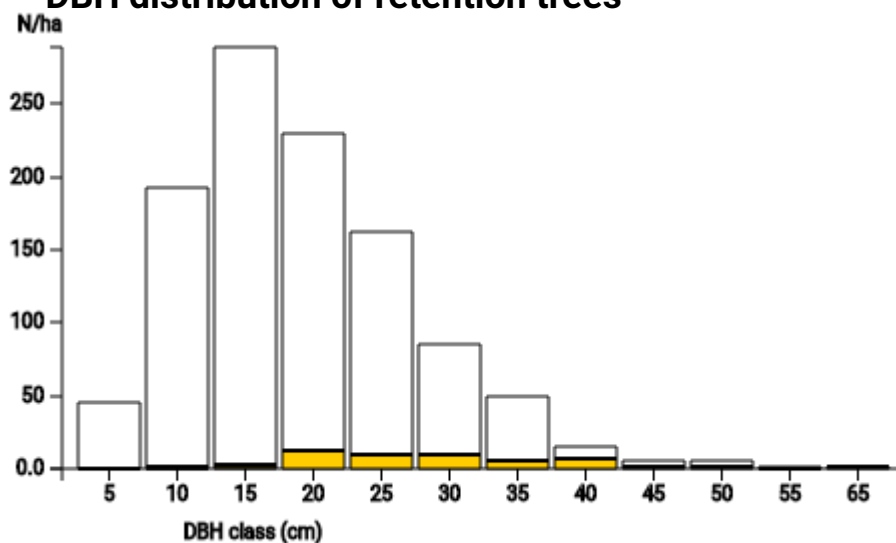
Habitat trees: 11

Economic value: 5187 €

Habitat value: 1049 pts.

Retention trees by volume (m³ in %)

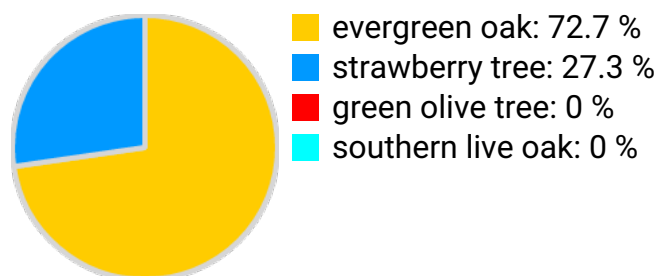
- evergreen oak: 99.5 %
- strawberry tree: 0.5 %
- green olive tree: 0 %
- southern live oak: 0 %

DBH distribution of retention trees**Retained trees (details by tree species)**

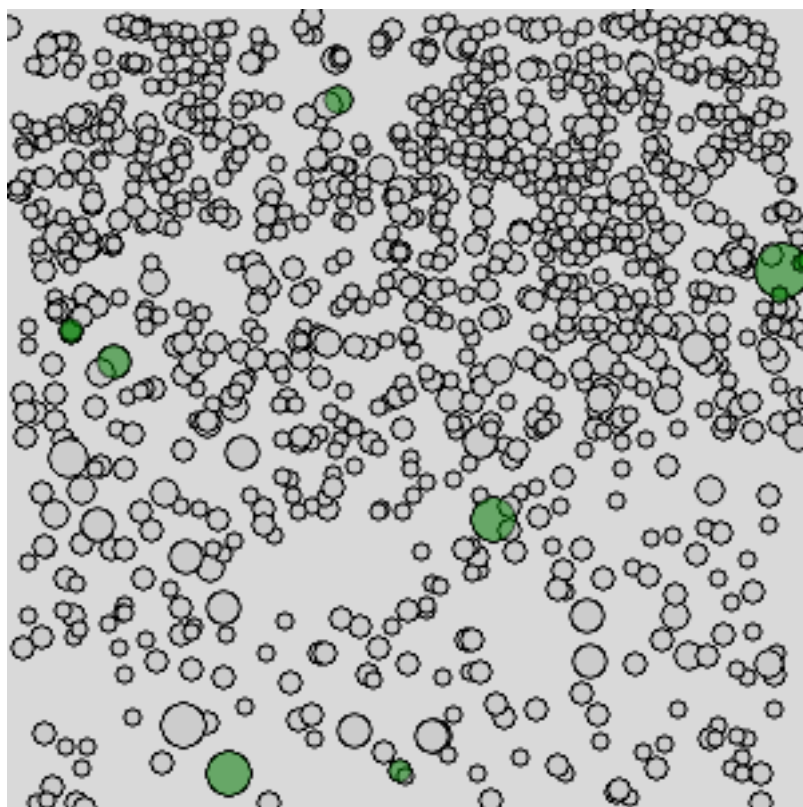
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
evergreen oak	50	4.4	39.7	5160	1049	112
green olive tree	0	0	0	0	0	0
southern live oak	0	0	0	0	0	0
strawberry tree	3	0	0.2	26	0	0
Total	53	4.4	39.9	5187	1049	112

Number of habitat trees	[N]	11
Habitat value	pts.	479
	[% of total]	5.1
Economic value	[€]	1228
	[% of total]	2.5
Number of microhabitats	[N]	48
	[% of total]	3.5

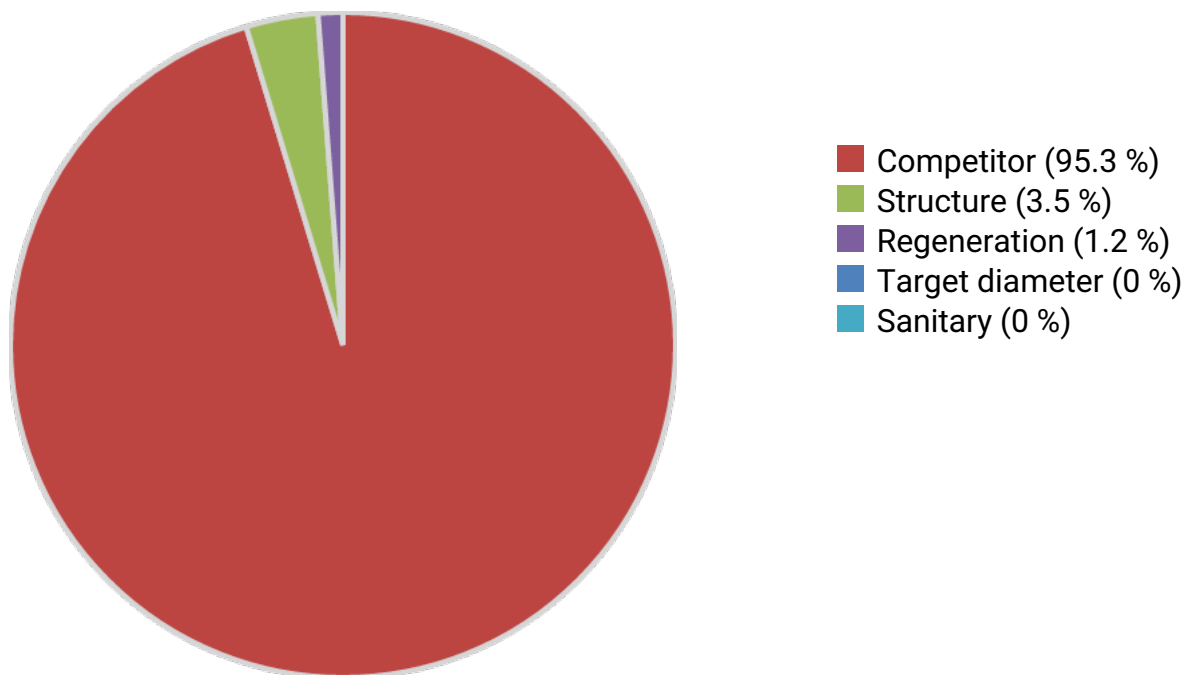
Habitat tree distribution by species (N in %)



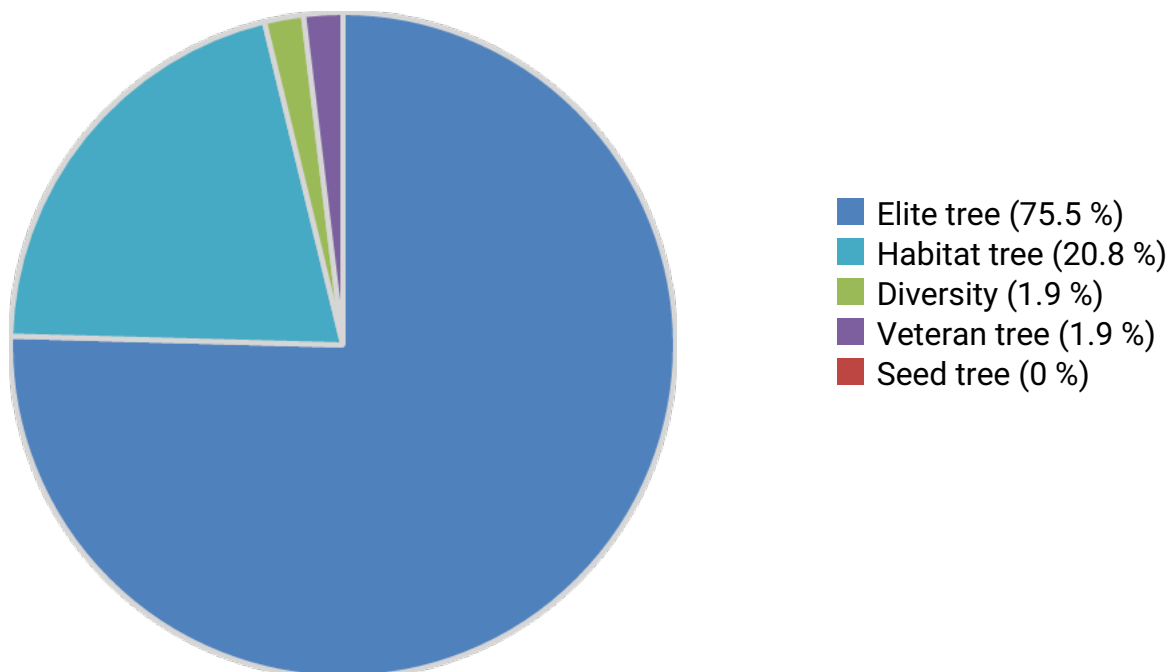
Spatial distribution of habitat trees



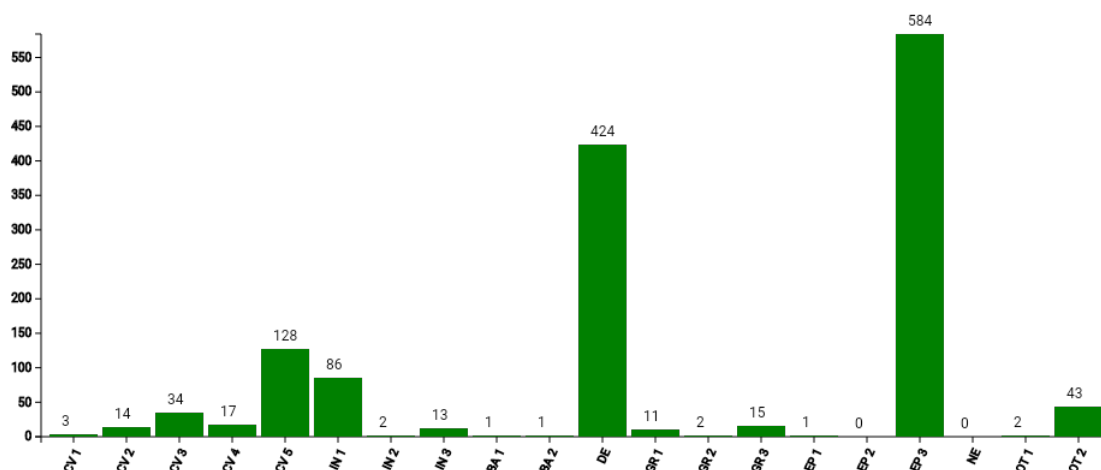
Reasons for removal



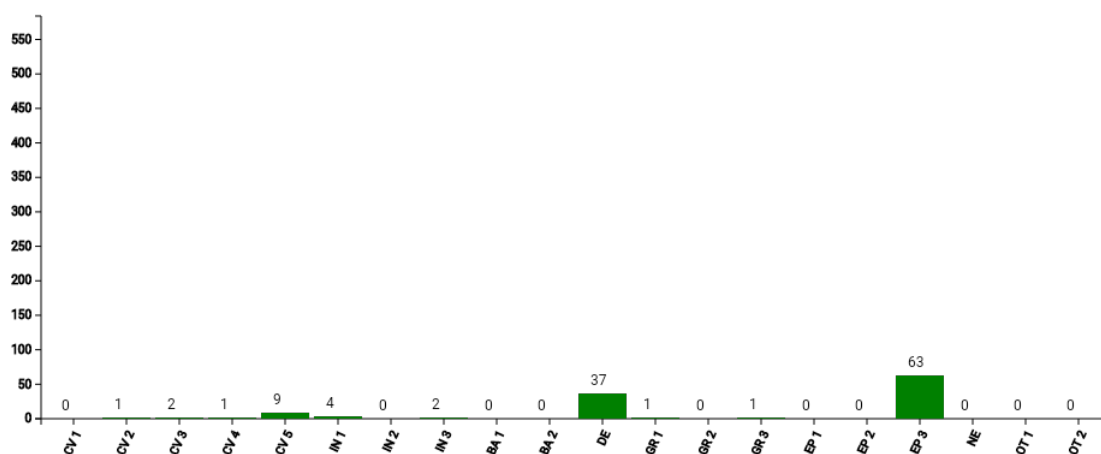
Reasons for retention



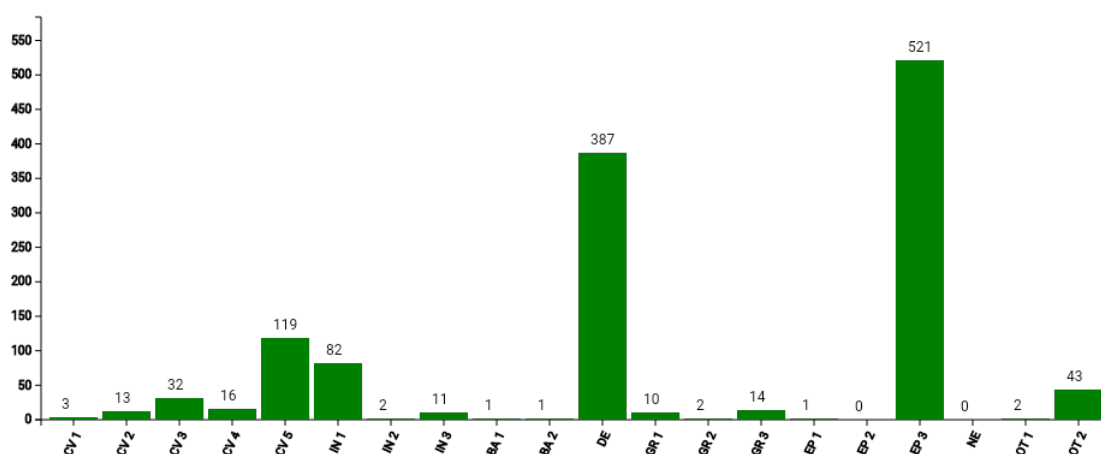
Distribution of tree microhabitats by code (N total)



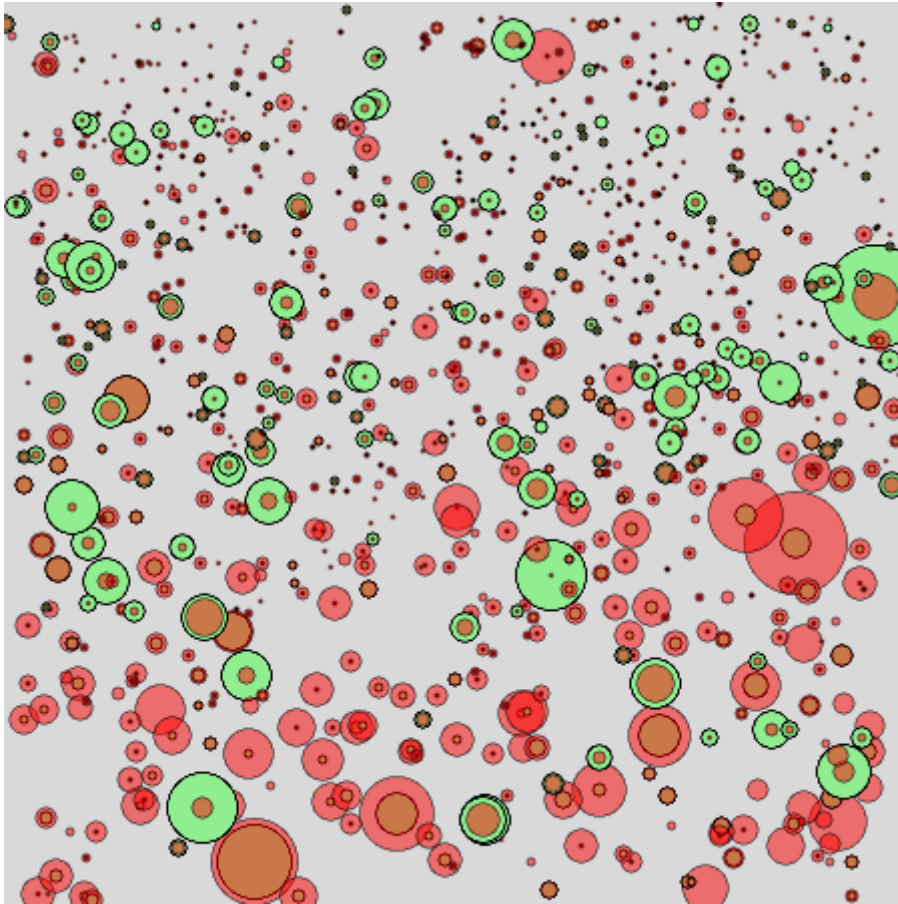
Removed tree microhabitats by code (N removed)



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 (444) Quercus ilex	39.5	0.12	1.3	166	12	Competitor
evergreen oak (595) Quercus ilex	38	0.11	1.3	167	0	Competitor
evergreen oak (389) Quercus ilex	38	0.11	1.1	147	4	Structure
evergreen oak (434) Quercus ilex	35	0.1	0.9	113	6	Competitor
evergreen oak (586) Quercus ilex	35	0.1	0.9	116	12	Competitor
evergreen oak (1070) Quercus ilex	34	0.09	0.7	96	10	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	Regeneration
evergreen oak (435) Quercus ilex	32	0.08	0.7	93	10	Competitor
evergreen oak (321) Quercus ilex	31	0.08	0.8	99	4	Competitor
evergreen oak (585) Quercus ilex	31	0.08	0.7	86	24	Competitor
evergreen oak (571) Quercus ilex	30	0.07	0.7	89	70	Competitor
evergreen oak (390) Quercus ilex	29	0.07	0.6	81	25	Structure
evergreen oak (471) Quercus ilex	29	0.07	0.6	81	10	Competitor
evergreen oak (424) Quercus ilex	29	0.07	0.6	84	4	Competitor
evergreen oak (502) Quercus ilex	28.5	0.06	0.6	84	4	Competitor
evergreen oak (526) Quercus ilex	28.5	0.06	0.6	73	40	Structure
evergreen oak (241) Quercus ilex	28	0.06	0.6	74	20	Competitor
evergreen oak (335) Quercus ilex	28	0.06	0.6	72	4	Competitor
evergreen oak (336) Quercus ilex	28	0.06	0.5	67	10	Competitor
evergreen oak (543)	27.5	0.06	0.6	77	4	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (536) Quercus ilex	27	0.06	0.5	71	4	Competitor
evergreen oak (234) Quercus ilex	26.5	0.06	0.5	64	15	Competitor
evergreen oak (220) Quercus ilex	26	0.05	0.4	57	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 (375) Quercus ilex	26	0.05	0.4	54	0	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 (518) Quercus ilex	25.5	0.05	0.5	63	4	Competitor
evergreen oak (404) Quercus ilex	25	0.05	0.4	58	10	Competitor
evergreen oak (1069) Quercus ilex	25	0.05	0.5	60	0	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 (362) Quercus ilex	23.5	0.04	0.4	51	6	Competitor
evergreen oak (109) Quercus ilex	23.5	0.04	0.4	49	8	Competitor
evergreen oak (1034) Quercus ilex	23	0.04	0.4	52	4	Competitor
evergreen oak (544) Quercus ilex	23	0.04	0.3	38	4	Competitor
evergreen oak (1035) Quercus ilex	23	0.04	0.3	44	4	Competitor
evergreen oak (969) Quercus ilex	23	0.04	0.4	47	4	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (34) Quercus ilex	22	0.04	0.3	44	0	Competitor
evergreen oak (300) Quercus ilex	22	0.04	0.4	46	20	Competitor
evergreen oak (57) Quercus ilex	22	0.04	0.3	36	6	Competitor
evergreen oak (1017) Quercus ilex	22	0.04	0.3	37	0	Competitor
evergreen oak (293) Quercus ilex	22	0.04	0.3	44	4	Competitor
evergreen oak (870) Quercus ilex	21.5	0.04	0.3	41	4	Competitor
evergreen oak (212) Quercus ilex	21.5	0.04	0.3	35	4	Competitor
evergreen oak (121) Quercus ilex	21	0.04	0.3	42	4	Competitor
evergreen oak (1055) Quercus ilex	21	0.04	0.3	38	4	Competitor
evergreen oak (236) Quercus ilex	21	0.04	0.3	41	4	Competitor
evergreen oak (520) Quercus ilex	20.5	0.03	0.3	33	4	Competitor
evergreen oak (693) Quercus ilex	20.5	0.03	0.3	33	4	Competitor
evergreen oak (200) Quercus ilex	20.5	0.03	0.3	38	0	Competitor
evergreen oak (221) Quercus ilex	20.5	0.03	0.3	34	4	Competitor
evergreen oak (510) Quercus ilex	20	0.03	0.3	37	8	Competitor
evergreen oak (826) Quercus ilex	20	0.03	0.2	30	4	Competitor
evergreen oak (827) Quercus ilex	20	0.03	0.3	33	4	Competitor
evergreen oak (501) Quercus ilex	20	0.03	0.3	39	0	Competitor
evergreen oak (472) Quercus ilex	20	0.03	0.3	36	10	Competitor
evergreen oak (516) Quercus ilex	20	0.03	0.2	25	4	Competitor
evergreen oak (1004)	19.5	0.03	0.3	33	34	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (673) Quercus ilex	19	0.03	0.2	26	0	Competitor
evergreen oak (712) Quercus ilex	19	0.03	0.2	28	4	Competitor
evergreen oak (126) Quercus ilex	19	0.03	0.2	31	8	Competitor
evergreen oak (739) Quercus ilex	19	0.03	0.2	27	10	Competitor
evergreen oak (1002) Quercus ilex	19	0.03	0.3	34	10	Competitor
evergreen oak (317) Quercus ilex	18	0.03	0.2	27	4	Competitor
evergreen oak (290) Quercus ilex	18	0.03	0.2	23	4	Competitor
evergreen oak (538) Quercus ilex	17.5	0.02	0.2	22	0	Competitor
evergreen oak (814) Quercus ilex	17	0.02	0.2	21	0	Competitor
evergreen oak (492) Quercus ilex	17	0.02	0.2	27	6	Competitor
evergreen oak (61) Quercus ilex	16.5	0.02	0.2	21	0	Competitor
evergreen oak (292) Quercus ilex	16.5	0.02	0.2	24	4	Competitor
evergreen oak (103) Quercus ilex	16.5	0.02	0.2	25	8	Competitor
evergreen oak (926) Quercus ilex	16	0.02	0.2	20	8	Competitor
evergreen oak (70) Quercus ilex	16	0.02	0.2	22	4	Competitor
evergreen oak (783) Quercus ilex	15	0.02	0.1	18	4	Competitor
evergreen oak (120) Quercus ilex	15	0.02	0.1	16	4	Competitor
evergreen oak (640) Quercus ilex	15	0.02	0.1	15	4	Competitor
evergreen oak (219) Quercus ilex	15	0.02	0.1	18	6	Competitor
evergreen oak (298) Quercus ilex	14	0.02	0	4	10	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (834) Quercus ilex	14	0.02	0.1	15	4	Competitor
evergreen oak (302) Quercus ilex	14	0.02	0.1	16	0	Competitor
evergreen oak (73) Quercus ilex	10.5	0.01	0.1	7	4	Competitor
evergreen oak (837) Quercus ilex	10	0.01	0.1	8	4	Competitor

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (449) Quercus ilex	65.5	0.34	3.1	408	100	Habitat tree
evergreen oak (977) Quercus ilex	53	0.22	1.6	204	140	Habitat tree
evergreen oak (286) Quercus ilex	47.5	0.18	1.6	208	60	Habitat tree
evergreen oak (569) Quercus ilex	47	0.17	1.9	244	18	Elite tree
evergreen oak (392) Quercus ilex	43	0.15	1.5	194	48	Elite tree
evergreen oak (537) Quercus ilex	42	0.14	1.4	176	0	Elite tree
evergreen oak (547) Quercus ilex	42	0.14	1.6	202	10	Elite tree
evergreen oak (430) Quercus ilex	42	0.14	1.5	197	10	Elite tree
evergreen oak (548) Quercus ilex	42	0.14	1.5	190	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 (580) Quercus ilex	38.5	0.12	1.1	148	14	Habitat tree
evergreen oak (376) Quercus ilex	38	0.11	1.2	150	10	Elite tree
evergreen oak (1003) Quercus ilex	37	0.11	1	125	4	Elite tree
evergreen oak (588) Quercus ilex	37	0.11	1	136	4	Elite tree
evergreen oak (496) Quercus ilex	37	0.11	0.1	19	96	Habitat tree
evergreen oak (1058) Quercus ilex	36	0.1	0.9	116	34	Elite tree
evergreen oak (572) Quercus ilex	34	0.09	1	125	0	Elite tree
evergreen oak (267) Quercus ilex	32	0.08	0.8	100	10	Habitat tree
evergreen oak (443) Quercus ilex	32	0.08	0.8	99	4	Elite tree
evergreen oak (1033)	31	0.08	0.7	95	62	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus ilex						
evergreen oak (930) Quercus ilex	31	0.08	0.8	106	4	Elite tree
evergreen oak (161) Quercus ilex	31	0.08	0.6	84	36	Veteran tree
evergreen oak (253) Quercus ilex	30.5	0.07	0.6	74	0	Elite tree
evergreen oak (500) Quercus ilex	30	0.07	0.6	83	4	Elite tree
evergreen oak (77) Quercus ilex	30	0.07	0.6	81	4	Elite tree
evergreen oak (74) Quercus ilex	29.5	0.07	0.5	67	38	Habitat tree
evergreen oak (1) Quercus ilex	29	0.07	0.5	59	21	Elite tree
evergreen oak (337) Quercus ilex	28.5	0.06	0.6	82	62	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	Diversity
evergreen oak (470) Quercus ilex	28	0.06	0.5	65	4	Elite tree
evergreen oak (361) Quercus ilex	28	0.06	0.6	82	59	Elite tree
evergreen oak (1030) Quercus ilex	28	0.06	0.6	75	4	Elite tree
evergreen oak (303) Quercus ilex	28	0.06	0.5	65	4	Elite tree
evergreen oak (199) Quercus ilex	27	0.06	0.5	65	4	Elite tree
evergreen oak (787) Quercus ilex	24	0.05	0.4	50	10	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 (941) Quercus ilex	23.5	0.04	0.4	51	4	Elite tree
evergreen oak (896) Quercus ilex	23	0.04	0.4	47	22	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
evergreen oak (680) Quercus ilex	23	0.04	0.3	35	8	Elite tree
evergreen oak (222) Quercus ilex	23	0.04	0.4	46	4	Elite tree
evergreen oak (122) Quercus ilex	22.5	0.04	0.3	45	0	Elite tree
evergreen oak (813) Quercus ilex	22	0.04	0.3	36	4	Elite tree
evergreen oak (852) Quercus ilex	21	0.04	0.3	38	24	Elite tree
evergreen oak (233) Quercus ilex	20.5	0.03	0.3	36	12	Elite tree
evergreen oak (851) Quercus ilex	20	0.03	0.3	33	30	Elite tree
evergreen oak (1013) Quercus ilex	18	0.03	0.2	27	4	Elite tree
evergreen oak (62) Quercus ilex	17	0.02	0.2	23	0	Elite tree
strawberry tree (950) Arbutus unedo	15	0.02	0.1	10	0	Habitat tree
strawberry tree (949) Arbutus unedo	13	0.01	0.1	7	0	Habitat tree
strawberry tree (978) [REPLACE_DEAD]Arbutus unedo	12	0.01	0.1	9	0	Habitat tree