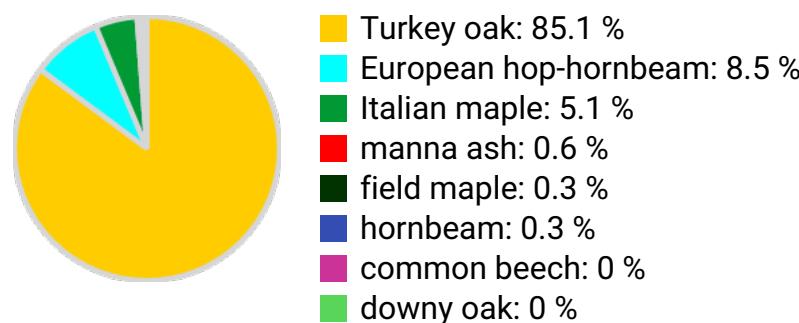
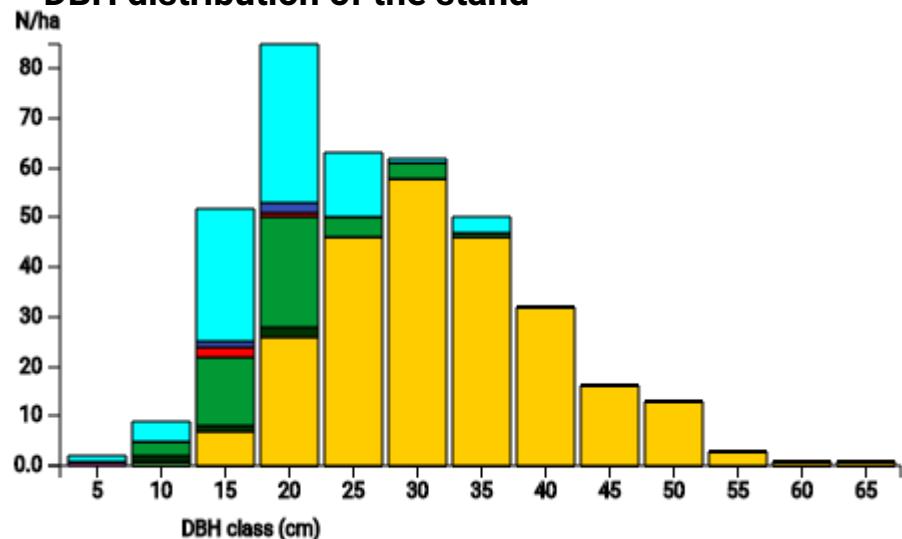


07/05/2021 Sala\_prod\_gruppoB\_07.05

**Site conditions**

Altitude: 870 m.a.s.l.  
 Geology / Bedrock: Alluvial and mixed beds  
 Soil type: Cambisol – Leptosol with Luvisol of the Central Appenino Mountains.  
 Natural forest community: Aceri obtusati-Querco cerridis sigmetum

Mean annual temperature: 12.4 C;  
 Mean annual precipitation: 1154 mm; Ownership: State-owned Agency "Sala"; Establishment: 2020

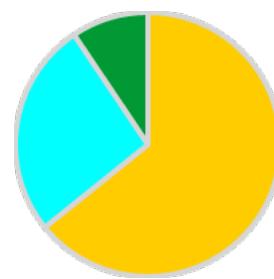
**Tree species distribution by volume (in %)****DBH distribution of the stand****Initial stand (details by tree species)**

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	81	3	34.6	2647	1669	101
Italian maple	47	1.8	20.8	1588	917	65
Turkey oak	249	24.7	346.4	26500	7807	401
common beech	1	0	0.2	16	0	0
downy oak	1	0	0.1	10	0	0
field maple	4	0.1	1.4	104	115	6
hornbeam	3	0.1	1.3	101	24	1
manna ash	3	0.1	2.3	174	38	4
Total	389	29.9	407.1	31140	10570	578

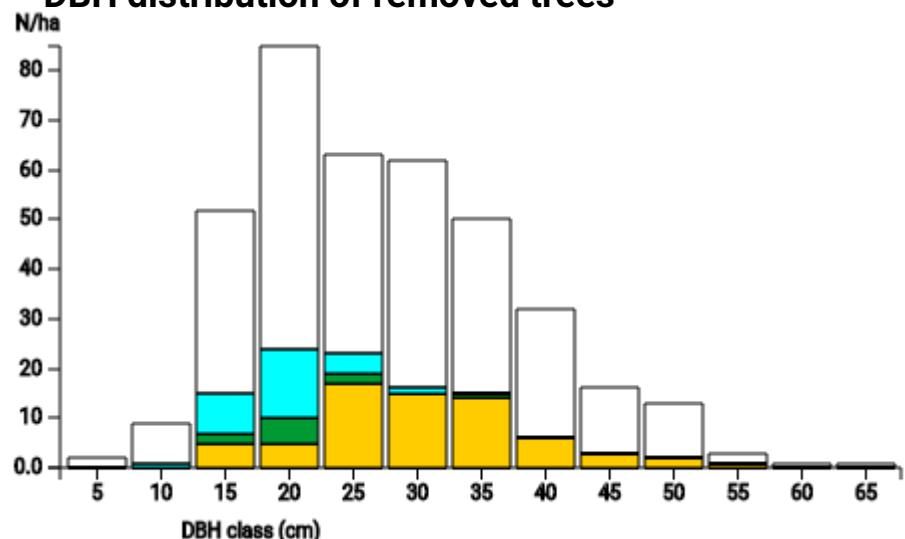
**Removed trees**Volume: 101.7 m<sup>3</sup>Basal area: 7.5 m<sup>2</sup>

Economic value: 7785 €

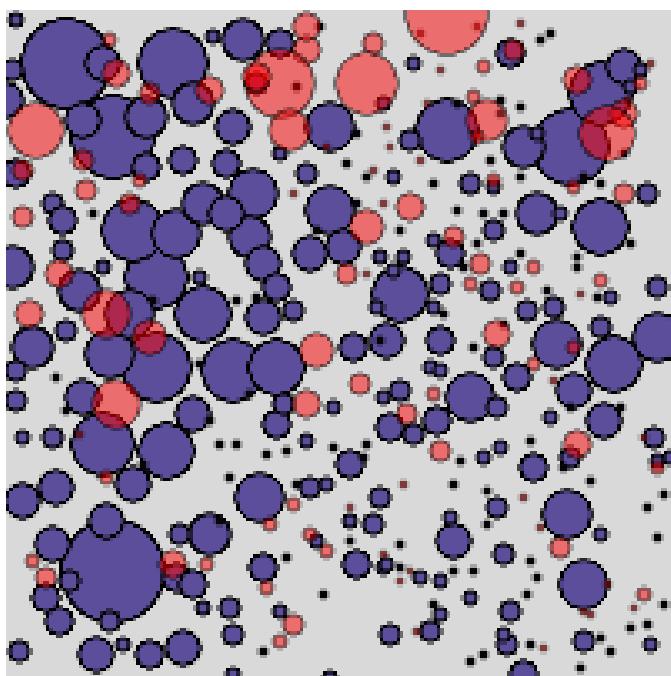
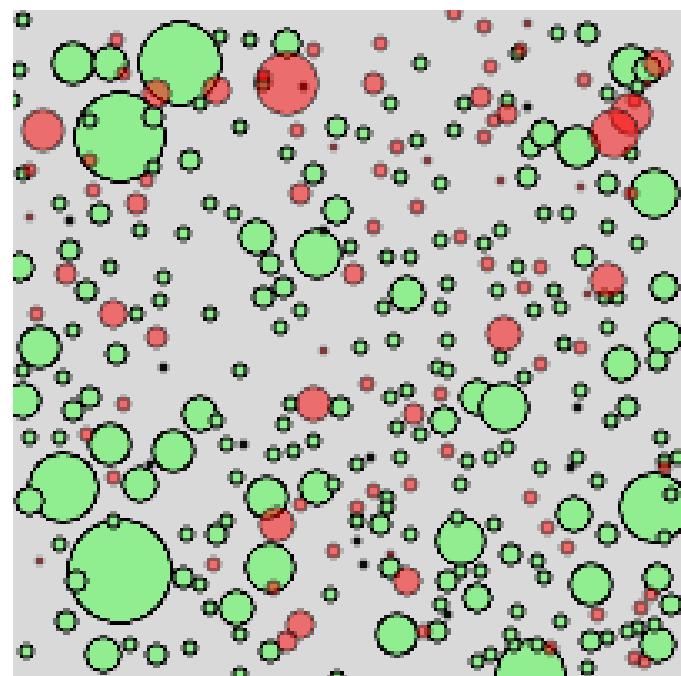
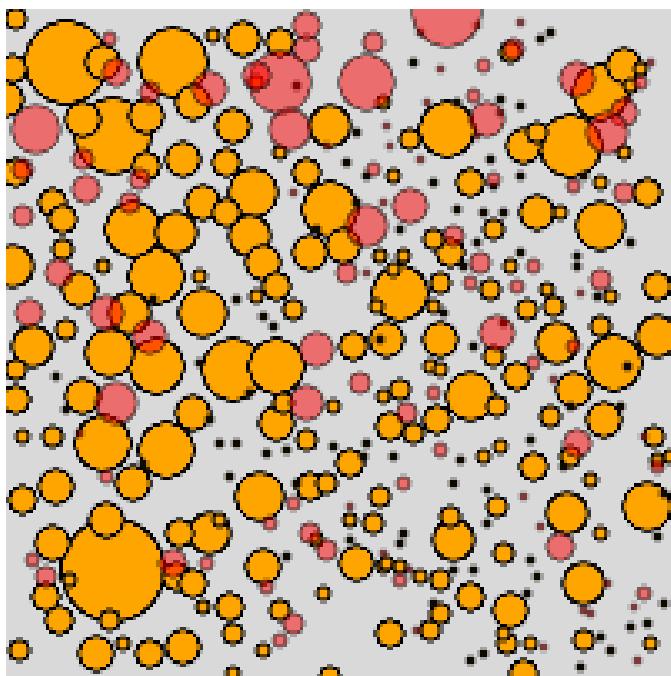
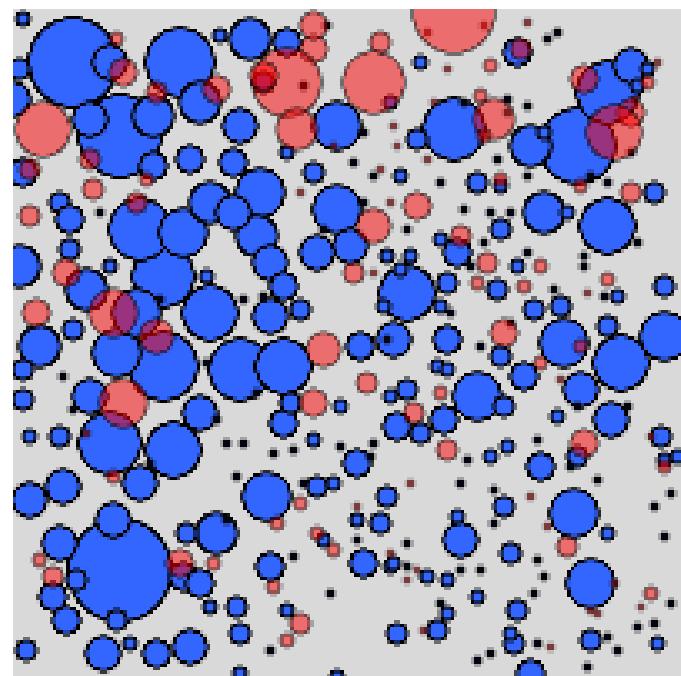
Habitat value: 2611 pts.

**Removed trees (N in %)**

- Turkey oak: 64.2 %
- European hop-hornbeam: 26.4 %
- Italian maple: 9.4 %
- common beech: 0 %
- downy oak: 0 %
- field maple: 0 %
- manna ash: 0 %
- hornbeam: 0 %

**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)
European hop-hornbeam	28	1	12.1	924	579	36
Italian maple	10	0.5	6	457	163	13
Turkey oak	68	6	83.7	6404	1869	94
common beech	0	0	0	0	0	0
downy oak	0	0	0	0	0	0
field maple	0	0	0	0	0	0
hornbeam	0	0	0	0	0	0
manna ash	0	0	0	0	0	0
Total	106	7.5	101.8	7785	2611	143

**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**

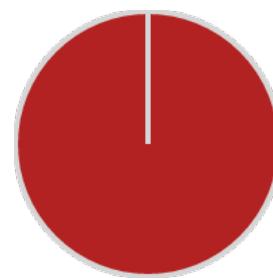
Total value of removed trees: 7785 €

Percentage of total stand value: 25 %

Stand value after harvest: 23355 €

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

Tree species	Total	Per m <sup>3</sup>
common beech	0	0
downy oak	0	0
Turkey oak	6404	76
field maple	0	0
Italian maple	457	77
manna ash	0	0
hornbeam	0	0
European hop-hornbeam	924	77
Total	7785	76

**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	101.8	100

**Habitat values**

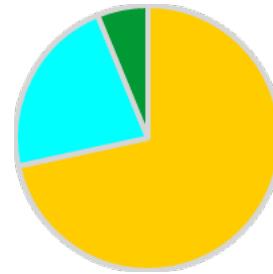
Total habitat value of removed trees: 2611 pts.

Percentage of total stand value: 24.7 %

Stand value after harvest: 7959 pts.

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

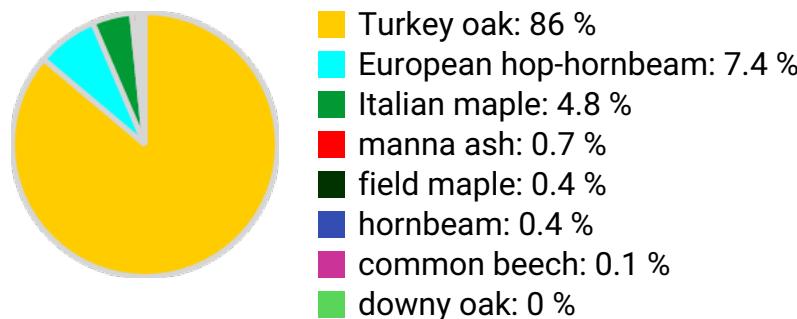
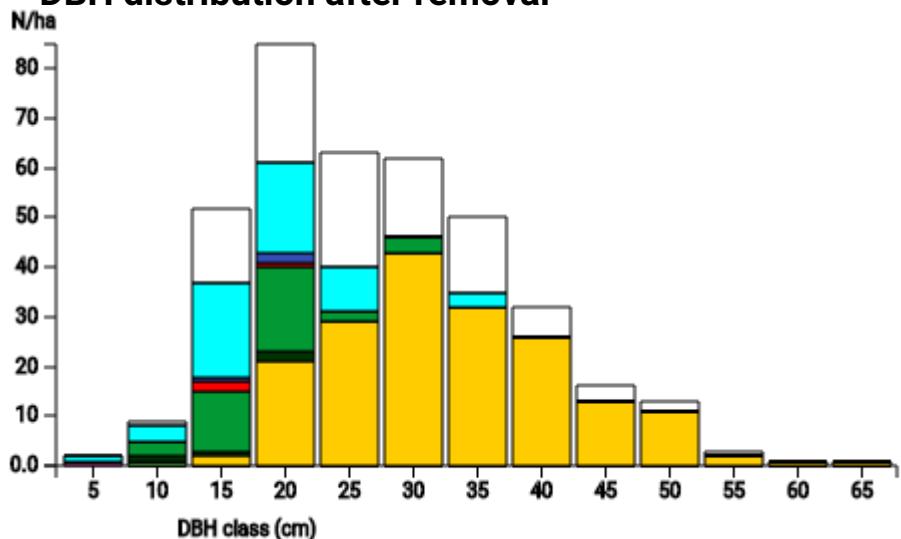
Tree species	Total	Per m <sup>3</sup>	Microhabitats [N]
common beech	0	0	0
downy oak	0	0	0
Turkey oak	1869	22.3	94
field maple	0	0	0
Italian maple	163	27.3	13
manna ash	0	0	0
hornbeam	0	0	0
European hop-hornbeam	579	48	36
Total	2611	25.7	143

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

- Turkey oak (71.6 %)
- European hop-hornbeam (22.2 %)
- Italian maple (6.2 %)
- common beech (0 %)
- downy oak (0 %)
- field maple (0 %)
- manna ash (0 %)
- hornbeam (0 %)

**Remaining stand**

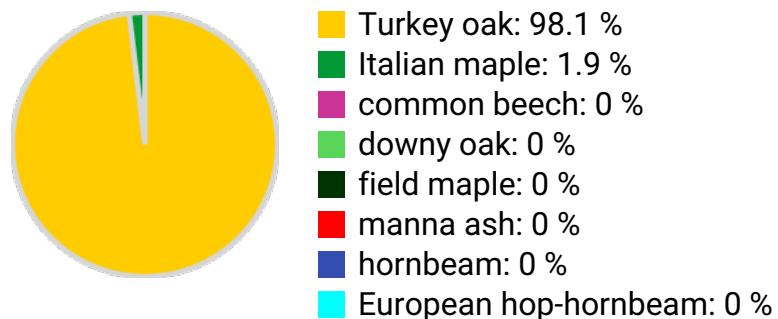
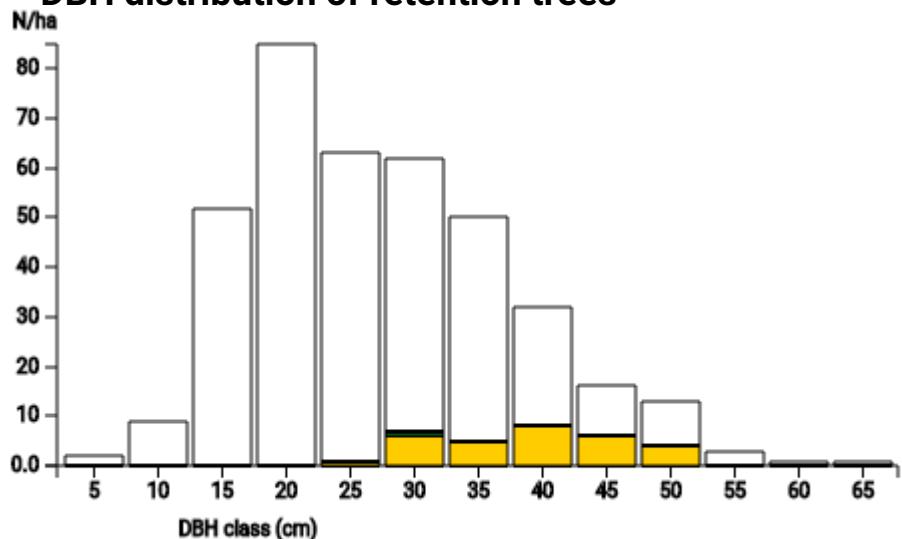
Volume: 305.3 m<sup>3</sup>  
 Basal area: 22.3 m<sup>2</sup>  
 Economic value: 23355 €  
 Habitat value: 7959 pts.

**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)
European hop-hornbeam	53	2	22.5	1723	1090	65
Italian maple	37	1.4	14.8	1130	754	52
Turkey oak	181	18.7	262.7	20096	5938	307
common beech	1	0	0.2	16	0	0
downy oak	1	0	0.1	10	0	0
field maple	4	0.1	1.4	104	115	6
hornbeam	3	0.1	1.3	101	24	1
manna ash	3	0.1	2.3	174	38	4
Total	283	22.3	305.3	23355	7959	435

**Retention trees**

Volume: 63.7 m<sup>3</sup>  
 Elite trees: 31  
 Habitat trees: 0  
 Economic value: 4874 €  
 Habitat value: 927 pts.

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

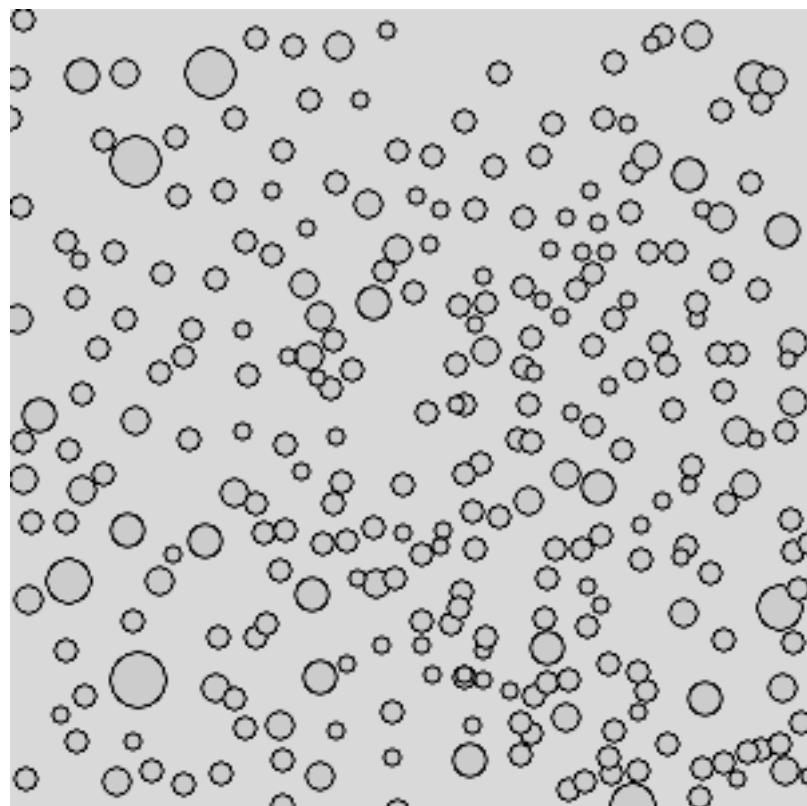
Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	0	0	0	0	0	0
Italian maple	1	0.1	1.2	93	40	2
Turkey oak	30	4.1	62.5	4780	887	48
common beech	0	0	0	0	0	0
downy oak	0	0	0	0	0	0
field maple	0	0	0	0	0	0
hornbeam	0	0	0	0	0	0
manna ash	0	0	0	0	0	0
Total	31	4.2	63.7	4874	927	50

Number of habitat trees	[N]	0
Habitat value	pts.	0
	[% of total]	0
Economic value	[€]	0
	[% of total]	0
Number of microhabitats	[N]	0
	[% of total]	0

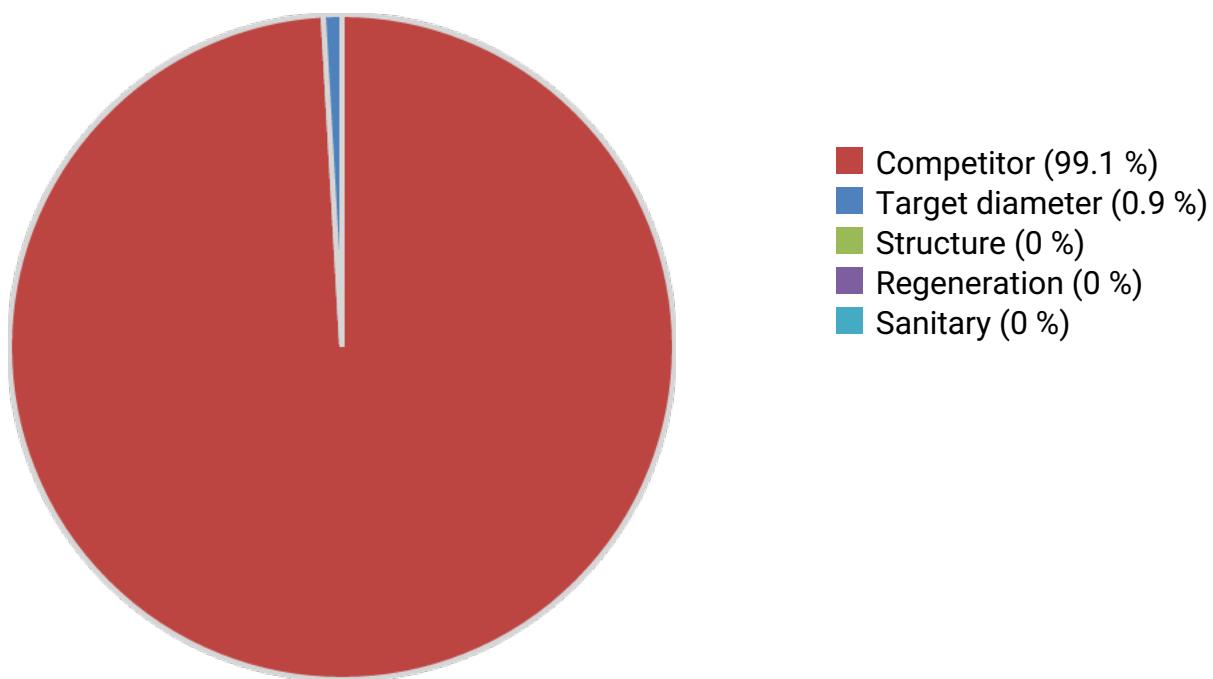
## Habitat tree distribution by species (N in %)

- common beech: NaN %
- downy oak: NaN %
- Turkey oak: NaN %
- field maple: NaN %
- Italian maple: NaN %
- manna ash: NaN %
- hornbeam: NaN %
- European hop-hornbeam: NaN %

## Spatial distribution of habitat trees

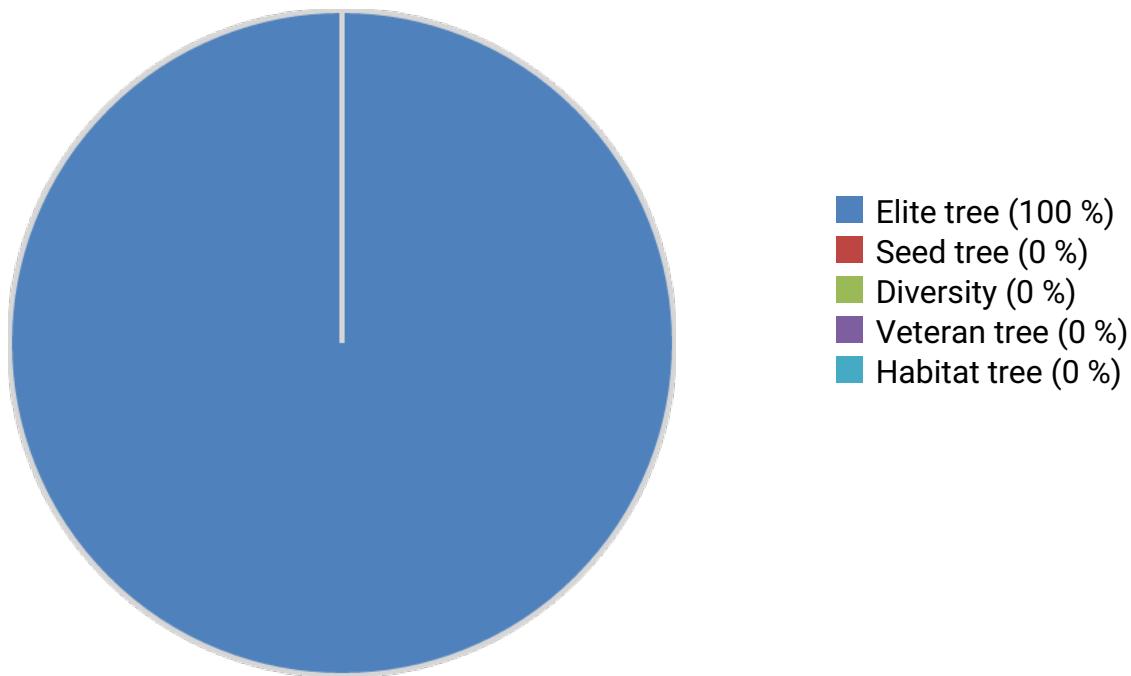


## Reasons for removal

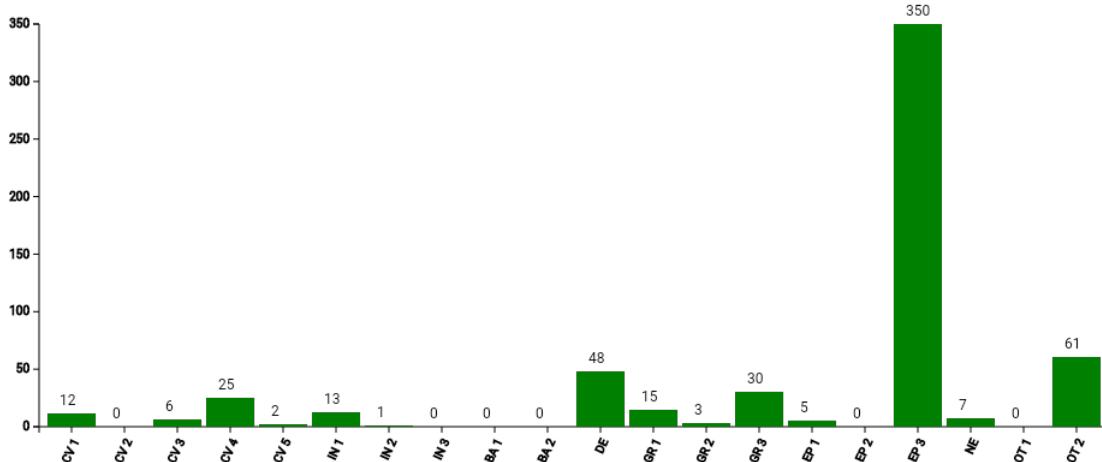
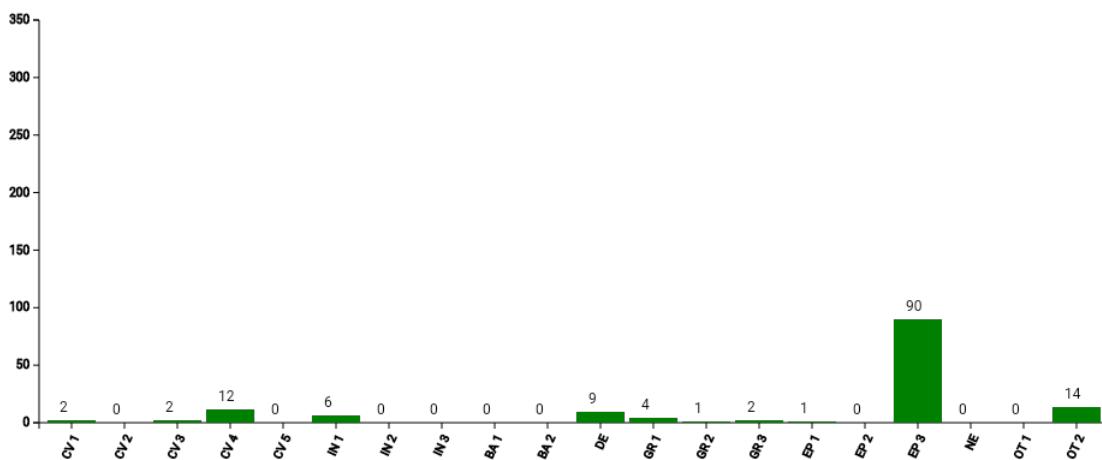
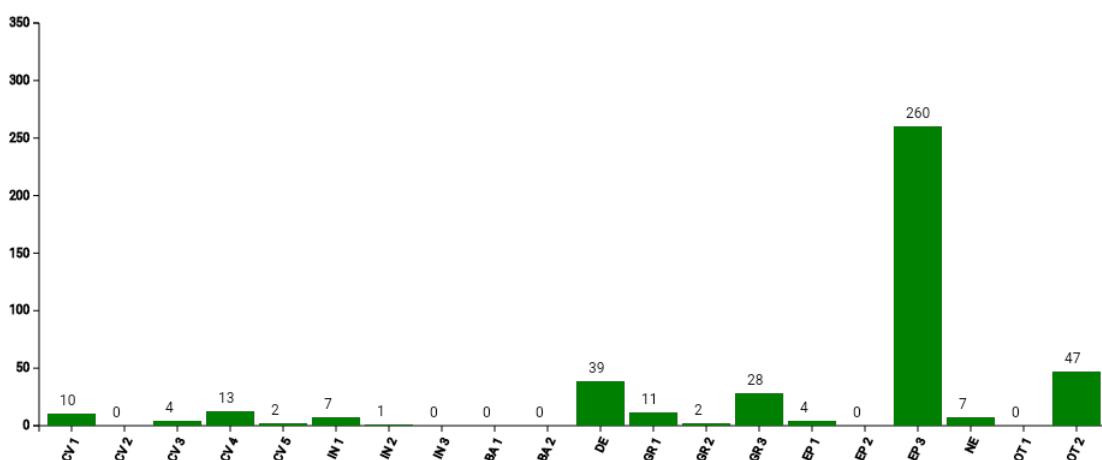


■ Competitor (99.1 %)  
■ Target diameter (0.9 %)  
■ Structure (0 %)  
■ Regeneration (0 %)  
■ Sanitary (0 %)

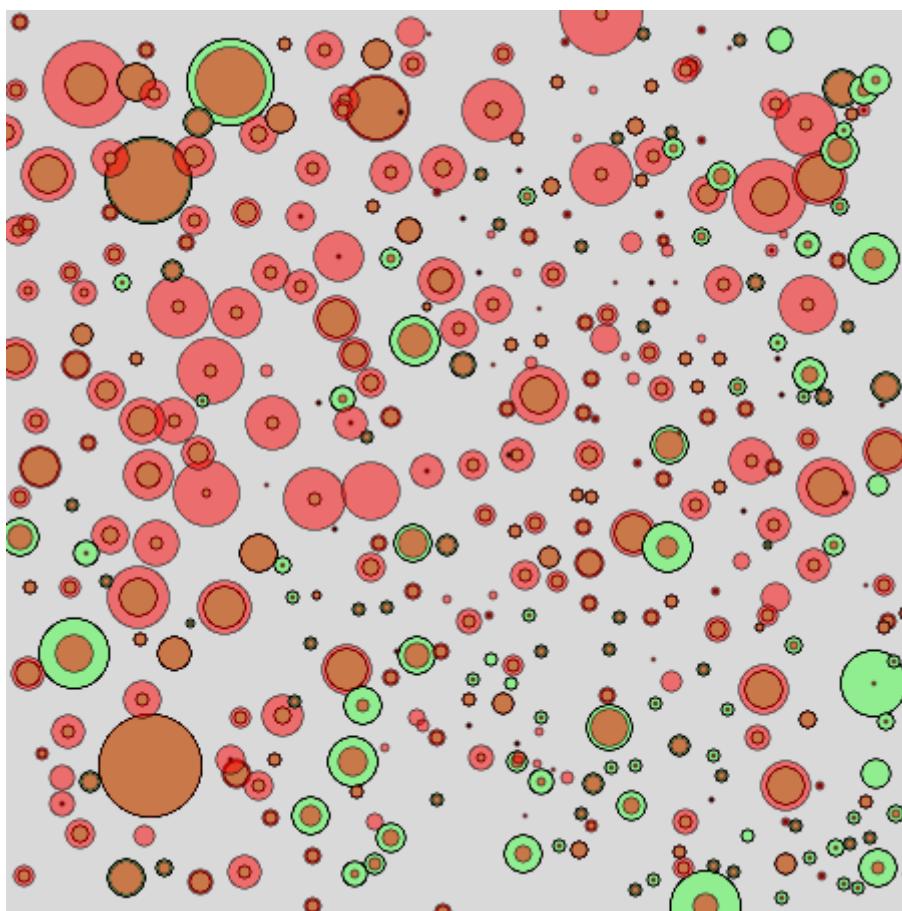
## Reasons for retention



■ Elite tree (100 %)  
■ Seed tree (0 %)  
■ Diversity (0 %)  
■ Veteran tree (0 %)  
■ Habitat 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 <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Turkey oak (287) <i>Quercus cerris</i>	57	0.26	4.3	330	24	Competitor
Turkey oak (10) <i>Quercus cerris</i>	54	0.23	3.5	269	106	Competitor
Turkey oak (298) <i>Quercus cerris</i>	50	0.2	3.3	252	30	Competitor
Turkey oak (28) <i>Quercus cerris</i>	46.5	0.17	2.7	205	66	Competitor
Turkey oak (86) <i>Quercus cerris</i>	45	0.16	2.4	183	24	Competitor
Turkey oak (327) <i>Quercus cerris</i>	45	0.16	2.7	208	76	Target diameter
Turkey oak (360) <i>Quercus cerris</i>	43	0.15	1.9	149	24	Competitor
Turkey oak (22) <i>Quercus cerris</i>	42	0.14	2.1	163	24	Competitor
Turkey oak (315) <i>Quercus cerris</i>	41	0.13	2	152	24	Competitor
Turkey oak (92) <i>Quercus cerris</i>	41	0.13	1.6	122	60	Competitor
Turkey oak (68) <i>Quercus cerris</i>	40.5	0.13	2.3	178	52	Competitor
Turkey oak (76) <i>Quercus cerris</i>	40	0.13	1.8	134	6	Competitor
Turkey oak (75) <i>Quercus cerris</i>	39.5	0.12	1.7	131	36	Competitor
Turkey oak (161) <i>Quercus cerris</i>	38	0.11	1.4	109	60	Competitor
Turkey oak (345) <i>Quercus cerris</i>	38	0.11	1.3	101	24	Competitor
Turkey oak (305) <i>Quercus cerris</i>	38	0.11	1.6	123	24	Competitor
Turkey oak (20) <i>Quercus cerris</i>	38	0.11	1.6	123	50	Competitor
Turkey oak (38) <i>Quercus cerris</i>	36	0.1	1.1	81	24	Competitor
Turkey oak (6) <i>Quercus cerris</i>	36	0.1	1.4	111	0	Competitor
Turkey oak (132) <i>Quercus cerris</i>	36	0.1	1.5	111	4	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus cerris						
Turkey oak (8) Quercus cerris	35.5	0.1	1.3	98	24	Competitor
Turkey oak (14) Quercus cerris	35.5	0.1	1.6	122	24	Competitor
Turkey oak (67) Quercus cerris	35.5	0.1	1.4	106	24	Competitor
Turkey oak (11) Quercus cerris	35	0.1	1.5	116	18	Competitor
Turkey oak (195) Quercus cerris	35	0.1	1.4	109	0	Competitor
Italian maple (313) <i>Acer opalus</i>	35	0.1	1.3	101	64	Competitor
Turkey oak (226) Quercus cerris	34.5	0.09	1.2	94	24	Competitor
Turkey oak (146) Quercus cerris	33.5	0.09	0.9	72	48	Competitor
Turkey oak (362) Quercus cerris	33.5	0.09	1.1	87	40	Competitor
Turkey oak (357) Quercus cerris	33.5	0.09	1.1	86	24	Competitor
Turkey oak (293) Quercus cerris	33.5	0.09	1.2	89	24	Competitor
Turkey oak (134) Quercus cerris	33	0.09	1.2	94	0	Competitor
Turkey oak (19) Quercus cerris	33	0.09	1.2	93	50	Competitor
Turkey oak (41) Quercus cerris	32.5	0.08	1.2	89	12	Competitor
Turkey oak (187) Quercus cerris	32.5	0.08	1	80	24	Competitor
Turkey oak (29) Quercus cerris	32	0.08	1	79	24	Competitor
European hop-hornbeam (373) <i>Ostrya carpinifolia</i>	32	0.08	0.9	66	58	Competitor
Turkey oak (124) Quercus cerris	31.5	0.08	0.9	65	0	Competitor
Turkey oak (189) Quercus cerris	31.5	0.08	1.1	81	36	Competitor
Turkey oak (285) Quercus cerris	31	0.08	1.2	89	24	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Turkey oak (126) <i>Quercus cerris</i>	30.5	0.07	0.8	60	24	Competitor
Turkey oak (30) <i>Quercus cerris</i>	30	0.07	0.9	69	24	Competitor
Turkey oak (369) <i>Quercus cerris</i>	29.5	0.07	1	79	24	Competitor
Italian maple (330) <i>Acer opalus</i>	29.5	0.07	1	73	24	Competitor
Turkey oak (44) <i>Quercus cerris</i>	29	0.07	0.9	73	32	Competitor
Turkey oak (37) <i>Quercus cerris</i>	29	0.07	0.9	65	24	Competitor
Turkey oak (206) <i>Quercus cerris</i>	28.5	0.06	0.9	70	24	Competitor
Turkey oak (123) <i>Quercus cerris</i>	28	0.06	0.7	57	60	Competitor
Italian maple (166) <i>Acer opalus</i>	28	0.06	0.8	60	24	Competitor
Turkey oak (114) <i>Quercus cerris</i>	28	0.06	0.9	66	19	Competitor
Turkey oak (184) <i>Quercus cerris</i>	28	0.06	0.8	64	24	Competitor
European hop-hornbeam (302) <i>Ostrya carpinifolia</i>	27.5	0.06	0.8	59	30	Competitor
Turkey oak (2) <i>Quercus cerris</i>	27.5	0.06	0.8	64	24	Competitor
Turkey oak (371) <i>Quercus cerris</i>	27	0.06	0.7	56	24	Competitor
Turkey oak (143) <i>Quercus cerris</i>	27	0.06	0.6	48	24	Competitor
Turkey oak (129) <i>Quercus cerris</i>	27	0.06	0.7	52	24	Competitor
Turkey oak (154) <i>Quercus cerris</i>	27	0.06	0.6	49	36	Competitor
European hop-hornbeam (336) <i>Ostrya carpinifolia</i>	26.5	0.06	0.6	47	14	Competitor
Turkey oak (381) <i>Quercus cerris</i>	26	0.05	0.7	55	0	Competitor
Turkey oak (295) <i>Quercus cerris</i>	26	0.05	0.7	52	24	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
Quercus cerris						
Turkey oak (379) Quercus cerris	25.5	0.05	0.6	45	24	Competitor
European hop-hornbeam (229) Ostrya carpinifolia	25.5	0.05	0.7	55	24	Competitor
European hop-hornbeam (310) Ostrya carpinifolia	25.5	0.05	0.6	50	7	Competitor
Turkey oak (107) Quercus cerris	25	0.05	0.6	47	24	Competitor
Turkey oak (219) Quercus cerris	24.5	0.05	0.5	41	24	Competitor
Turkey oak (173) Quercus cerris	24	0.05	0.6	44	24	Competitor
Turkey oak (260) Quercus cerris	24	0.05	0.5	41	44	Competitor
European hop-hornbeam (200) Ostrya carpinifolia	24	0.05	0.7	51	24	Competitor
European hop-hornbeam (340) Ostrya carpinifolia	23.5	0.04	0.5	38	24	Competitor
Italian maple (333) Acer opalus	23.5	0.04	0.6	42	8	Competitor
Italian maple (316) Acer opalus	23	0.04	0.6	45	24	Competitor
Turkey oak (102) Quercus cerris	23	0.04	0.5	38	24	Competitor
Italian maple (263) Acer opalus	23	0.04	0.4	31	4	Competitor
European hop-hornbeam (344) Ostrya carpinifolia	22.5	0.04	0.4	33	0	Competitor
European hop-hornbeam (48) Ostrya carpinifolia	22	0.04	0.5	35	38	Competitor
European hop-hornbeam (321) Ostrya carpinifolia	22	0.04	0.4	34	28	Competitor
Italian maple (286) Acer opalus	22	0.04	0.5	35	4	Competitor
European hop-hornbeam (322) Ostrya carpinifolia	22	0.04	0.5	38	6	Competitor
European hop-hornbeam (246) Ostrya carpinifolia	21.5	0.04	0.5	35	24	Competitor
European hop-hornbeam (35) Ostrya carpinifolia	21.5	0.04	0.5	41	6	Competitor

Tree	DBH (cm)	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
European hop-hornbeam (211) <i>Ostrya carpinifolia</i>	21	0.04	0.3	26	24	Competitor
European hop-hornbeam (272) <i>Ostrya carpinifolia</i>	21	0.04	0.4	30	24	Competitor
Turkey oak (277) <i>Quercus cerris</i>	21	0.04	0.3	21	24	Competitor
European hop-hornbeam (308) <i>Ostrya carpinifolia</i>	21	0.04	0.4	33	48	Competitor
European hop-hornbeam (231) <i>Ostrya carpinifolia</i>	20.5	0.03	0.3	26	4	Competitor
European hop-hornbeam (314) <i>Ostrya carpinifolia</i>	20.5	0.03	0.3	26	38	Competitor
Italian maple (377) <i>Acer opalus</i>	20	0.03	0.3	25	7	Competitor
European hop-hornbeam (300) <i>Ostrya carpinifolia</i>	20	0.03	0.3	26	0	Competitor
European hop-hornbeam (289) <i>Ostrya carpinifolia</i>	19.5	0.03	0.4	30	10	Competitor
Turkey oak (255) <i>Quercus cerris</i>	19.5	0.03	0.3	20	6	Competitor
European hop-hornbeam (288) <i>Ostrya carpinifolia</i>	19.5	0.03	0.4	31	24	Competitor
Italian maple (296) <i>Acer opalus</i>	19	0.03	0.3	26	0	Competitor
Turkey oak (238) <i>Quercus cerris</i>	19	0.03	0.2	18	24	Competitor
Turkey oak (363) <i>Quercus cerris</i>	18.5	0.03	0.3	25	0	Competitor
European hop-hornbeam (319) <i>Ostrya carpinifolia</i>	18	0.03	0.3	25	4	Competitor
Turkey oak (312) <i>Quercus cerris</i>	18	0.03	0.2	19	28	Competitor
Turkey oak (253) <i>Quercus cerris</i>	18	0.03	0.2	17	0	Competitor
Italian maple (174) <i>Acer opalus</i>	17.5	0.02	0.2	19	4	Competitor
European hop-hornbeam (196) <i>Ostrya carpinifolia</i>	17	0.02	0.3	20	0	Competitor
European hop-hornbeam (217) <i>Ostrya carpinifolia</i>	17	0.02	0.3	19	24	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Ostrya carpinifolia						
European hop-hornbeam (230)	16	0.02	0.3	19	24	Competitor
Ostrya carpinifolia						
European hop-hornbeam (270)	15	0.02	0.1	10	24	Competitor
Ostrya carpinifolia						
European hop-hornbeam (222)	13	0.01	0.1	7	24	Competitor
Ostrya carpinifolia						

**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>
Turkey oak (80) <i>Quercus cerris</i>	51.5	0.21	3.5	266	16	Elite tree
Turkey oak (101) <i>Quercus cerris</i>	51	0.2	3.3	253	66	Elite tree
Turkey oak (317) <i>Quercus cerris</i>	51	0.2	3.2	249	24	Elite tree
Turkey oak (306) <i>Quercus cerris</i>	50	0.2	3.2	246	24	Elite tree
Turkey oak (52) <i>Quercus cerris</i>	49	0.19	3.2	244	24	Elite tree
Turkey oak (47) <i>Quercus cerris</i>	48.5	0.19	2.5	189	4	Elite tree
Turkey oak (115) <i>Quercus cerris</i>	48	0.18	2.7	205	70	Elite tree
Turkey oak (70) <i>Quercus cerris</i>	48	0.18	2.7	210	24	Elite tree
Turkey oak (351) <i>Quercus cerris</i>	47	0.17	2.9	224	24	Elite tree
Turkey oak (232) <i>Quercus cerris</i>	45	0.16	2.5	192	64	Elite tree
Turkey oak (54) <i>Quercus cerris</i>	44	0.15	2.1	160	46	Elite tree
Turkey oak (212) <i>Quercus cerris</i>	44	0.15	2.5	189	60	Elite tree
Turkey oak (167) <i>Quercus cerris</i>	43.5	0.15	2.4	181	24	Elite tree
Turkey oak (69) <i>Quercus cerris</i>	43	0.15	2.4	184	24	Elite tree
Turkey oak (179) <i>Quercus cerris</i>	41.5	0.14	1.7	131	24	Elite tree
Turkey oak (25) <i>Quercus cerris</i>	41.5	0.14	2.1	157	36	Elite tree
Turkey oak (18) <i>Quercus cerris</i>	41	0.13	1.7	132	28	Elite tree
Turkey oak (361) <i>Quercus cerris</i>	40	0.13	1.9	147	24	Elite tree
Turkey oak (4) <i>Quercus cerris</i>	38.5	0.12	2	155	24	Elite tree
Turkey oak (191) <i>Quercus cerris</i>	37.5	0.11	1.6	123	45	Elite tree

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Quercus cerris						
Turkey oak (169) Quercus cerris	35	0.1	1.6	122	24	Elite tree
Turkey oak (40) Quercus cerris						
Italian maple (36) Acer opalus	34.5	0.09	1.2	93	40	Elite tree
Turkey oak (136) Quercus cerris	34	0.09	1.3	103	4	Elite tree
Turkey oak (294) Quercus cerris	33	0.09	1.3	101	24	Elite tree
Turkey oak (197) Quercus cerris	32	0.08	1.2	90	24	Elite tree
Turkey oak (223) Quercus cerris	32	0.08	1	79	24	Elite tree
Turkey oak (380) Quercus cerris	31	0.08	1.2	92	24	Elite tree
Turkey oak (145) Quercus cerris	30	0.07	0.9	66	0	Elite tree
Turkey oak (339) Quercus cerris	28	0.06	0.8	60	24	Elite tree