

02/03/2021 Gruppo B turno 2

Site conditions

Altitude: 1270 m.a.s.l.

Forest ecological region: Tuscany

Geology / Bedrock: Sandstone

Soil type: Brown podzolic soil

Natural forest community:

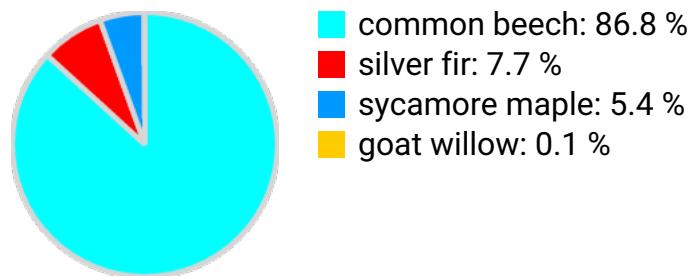
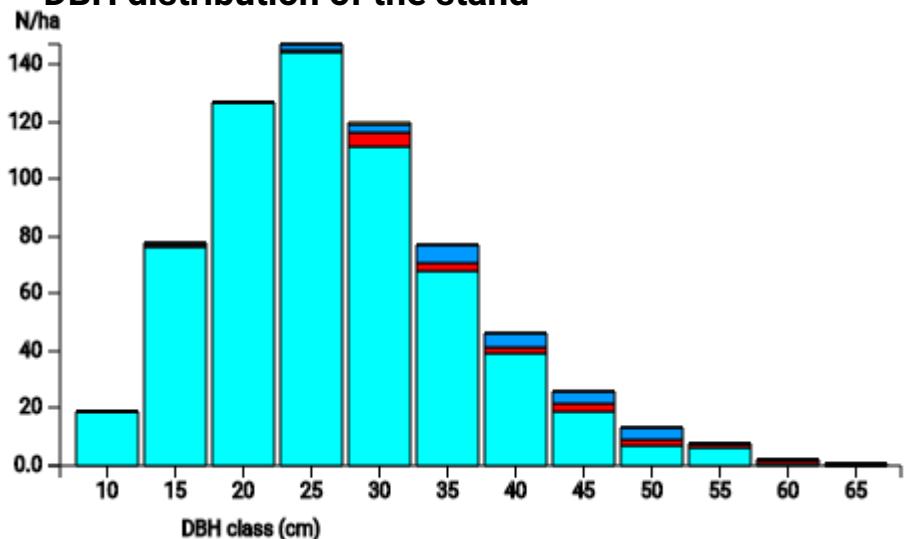
Asperulo-Fagetum

Mean annual temperature: 8.7 C;

Mean annual precipitation: 1642

mm; Ownership: State;

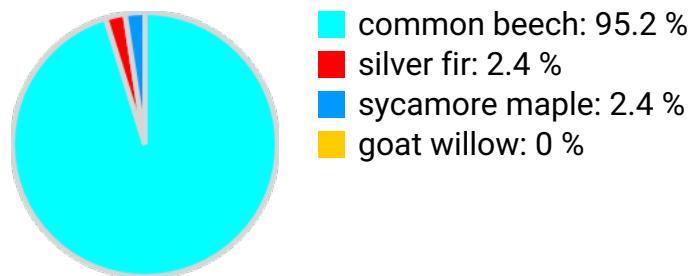
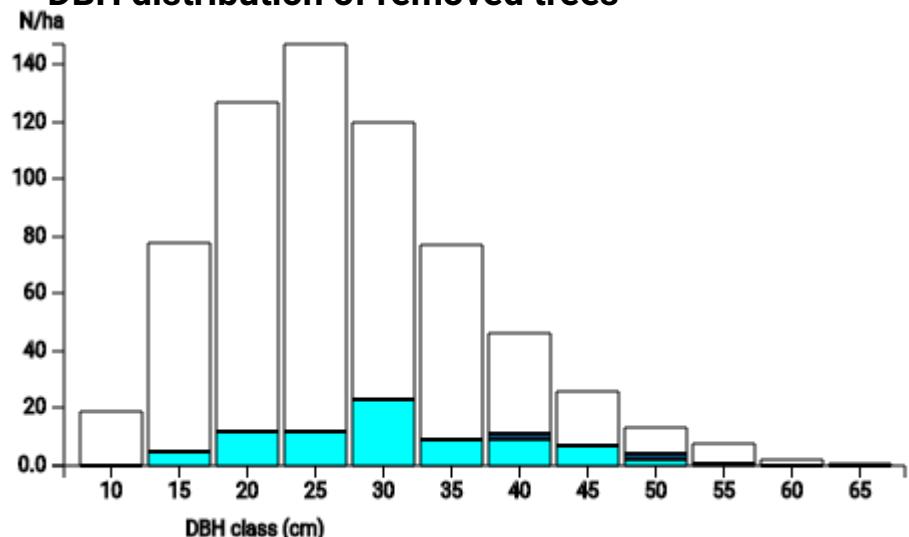
Establishment: 2020

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

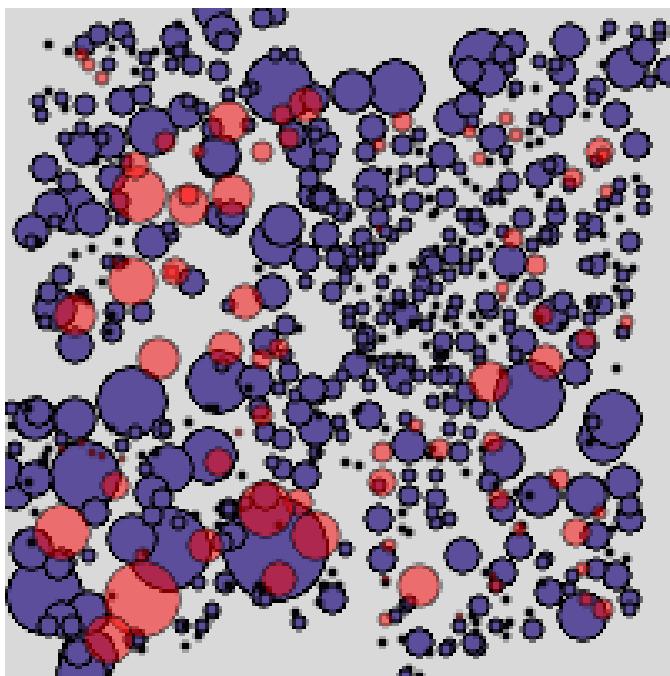
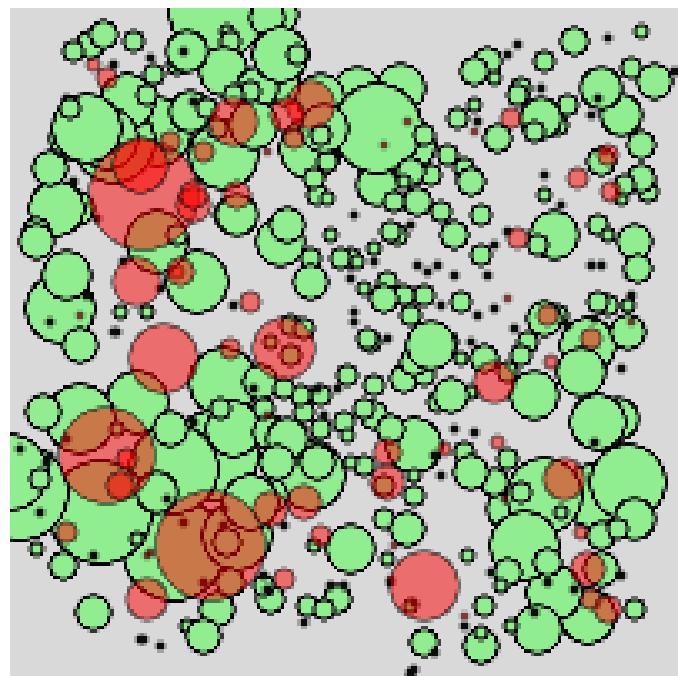
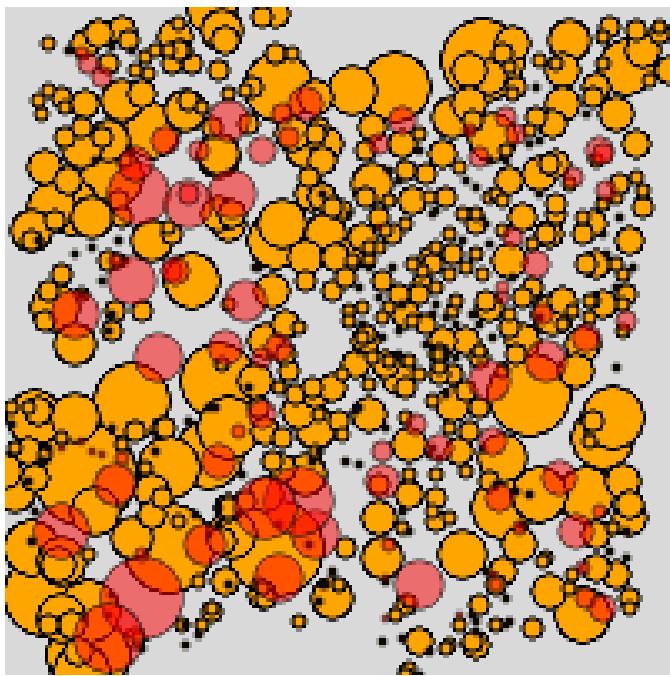
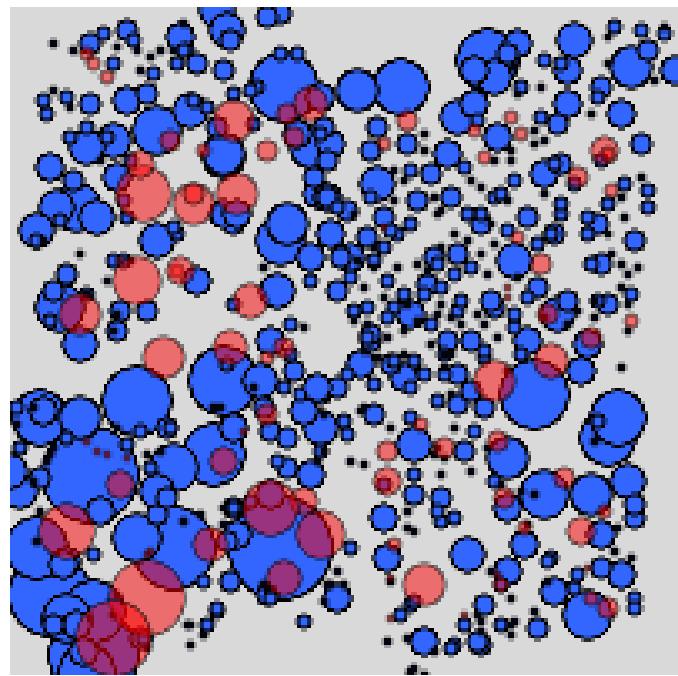
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	617	44.3	484	41247	19808	1283
goat willow	1	0.1	0.8	70	24	3
silver fir	21	3.3	43.1	3060	245	25
sycamore maple	25	3.2	29.9	2409	1664	99
Total	664	50.8	557.9	46786	21741	1410

Removed trees

Volume: 91.1 m³
 Basal area: 8 m²
 Economic value: 7657 €
 Habitat value: 3648 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)
common beech	80	7.3	83.4	7096	3520	226
goat willow	0	0	0	0	0	0
silver fir	2	0.4	4.8	319	0	0
sycamore maple	2	0.4	2.9	241	128	10
Total	84	8	91.1	7657	3648	236

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.

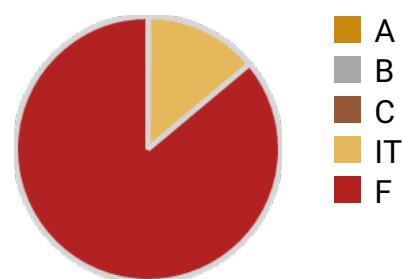
Economic values

Total value of removed trees: 7657 €
 Percentage of total stand value: 16.4 %
 Stand value after harvest: 39130 €

Economic value by tree species [€]

Tree species	Total	Per m³
common beech	7096	85
silver fir	319	66
sycamore maple	241	85
goat willow	0	0
Total	7657	84

Wood quality distribution (m³ in %)



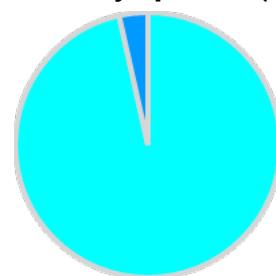
Habitat values

Total habitat value of removed trees: 3648 pts.
 Percentage of total stand value: 16.8 %
 Stand value after harvest: 18093 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m³	Microhabitats [N]
common beech	3520	42.2	226
silver fir	0	0	0
sycamore maple	128	44.9	10
goat willow	0	0	0
Total	3648	40	236

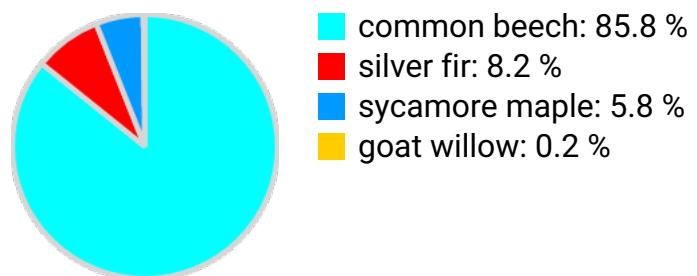
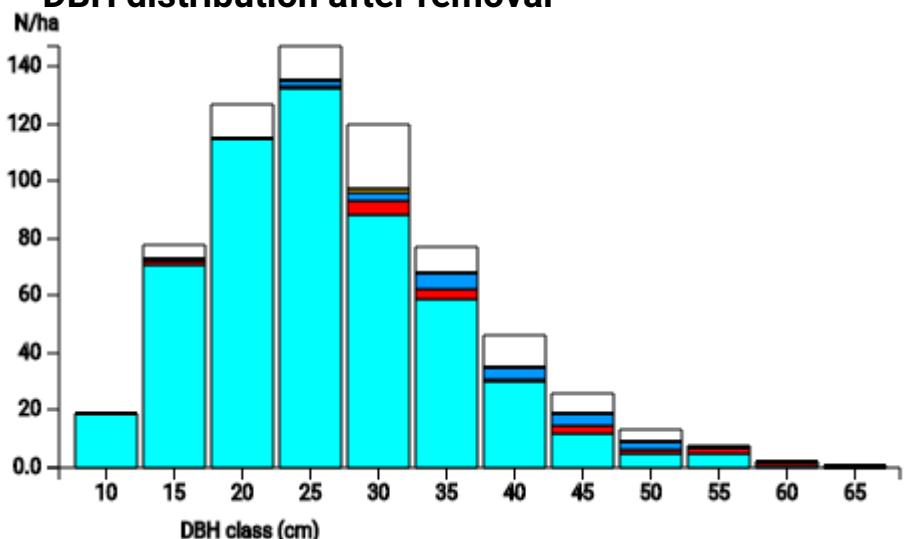
Habitat value (points) of removed trees by species (in %)



common beech	(96.5 %)
sycamore maple	(3.5 %)
silver fir	(0 %)
goat willow	(0 %)

Remaining stand

Volume: 466.7 m³
 Basal area: 42.8 m²
 Economic value: 39130 €
 Habitat value: 18093 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)
common beech	537	36.9	400.6	34151	16288	1057
goat willow	1	0.1	0.8	70	24	3
silver fir	19	2.9	38.3	2741	245	25
sycamore maple	23	2.9	27.1	2167	1536	89
Total	580	42.8	466.7	39130	18093	1174

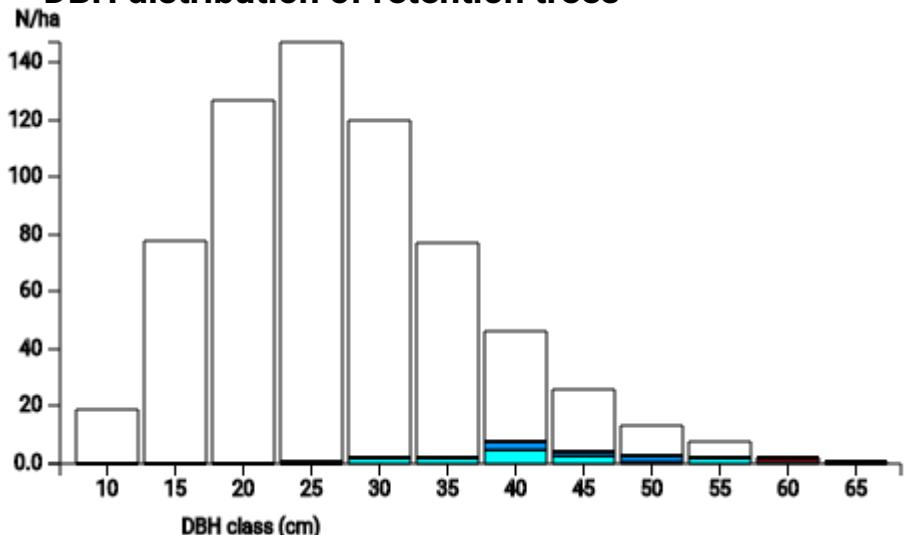
Retention treesVolume: 49.9 m³

Elite trees: 23

Habitat trees: 2

Economic value: 4046 €

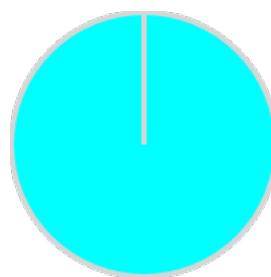
Habitat value: 1921 pts.

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)
common beech	16	2.7	31.9	2708	1353	78
goat willow	0	0	0	0	0	0
silver fir	2	0.7	9	688	40	7
sycamore maple	7	1.1	9.1	650	528	29
Total	25	4.4	49.9	4046	1921	114

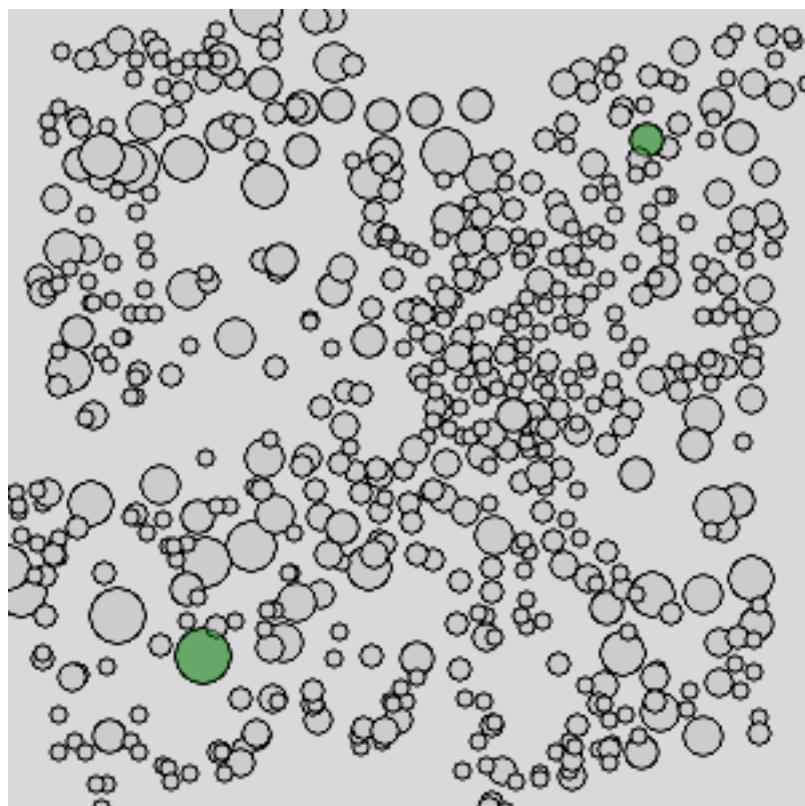
Number of habitat trees	[N]	2
Habitat value	pts.	296
	[% of total]	1.4
Economic value	[€]	393
	[% of total]	0.8
Number of microhabitats	[N]	15
	[% of total]	1.1

Habitat tree distribution by species (N in %)

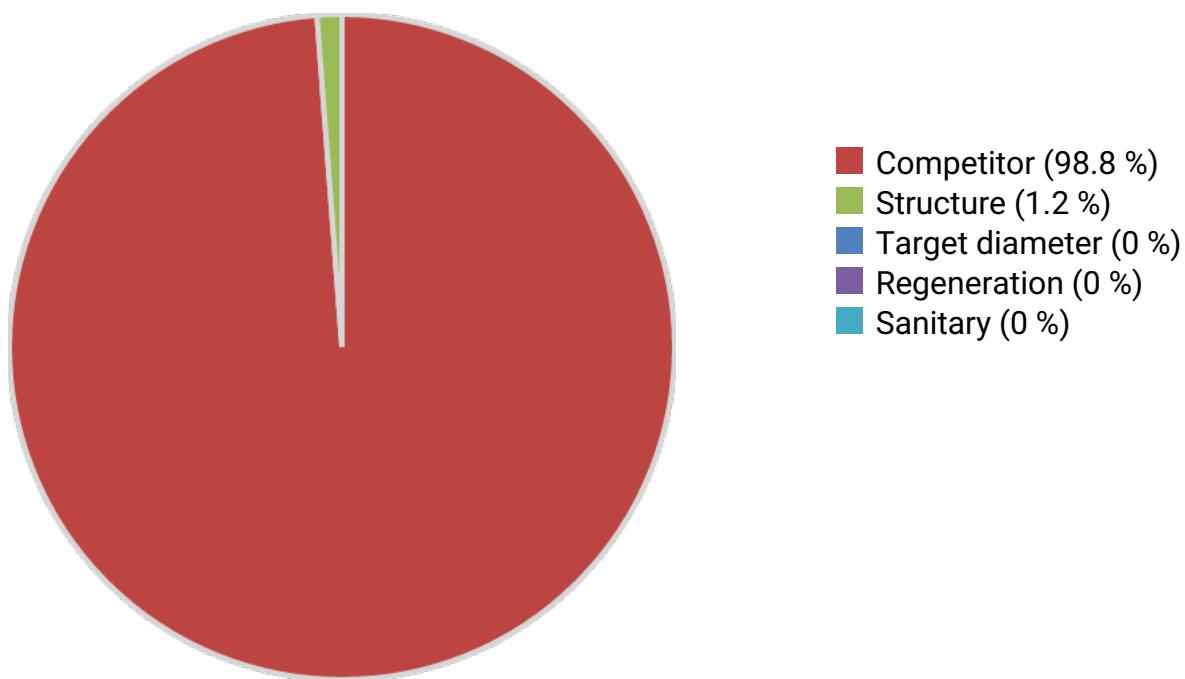


- common beech: 100 %
- silver fir: 0 %
- sycamore maple: 0 %
- goat willow: 0 %

Spatial distribution of habitat trees

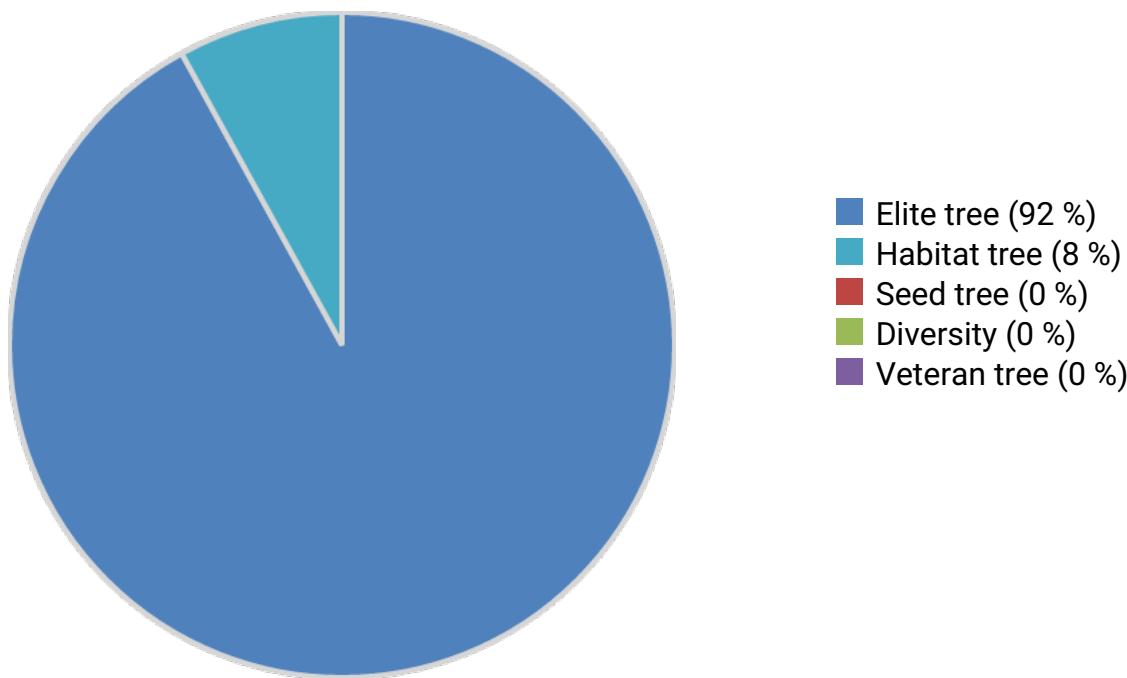


Reasons for removal

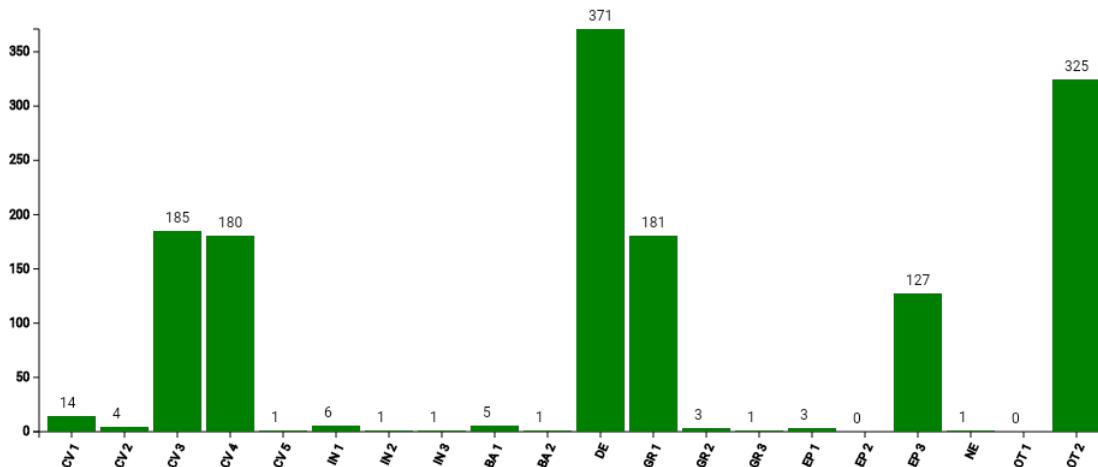
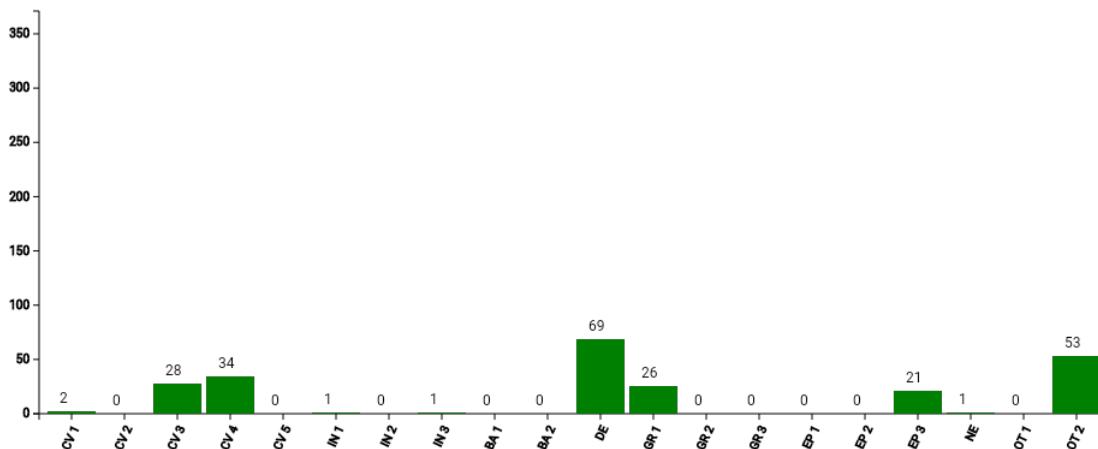
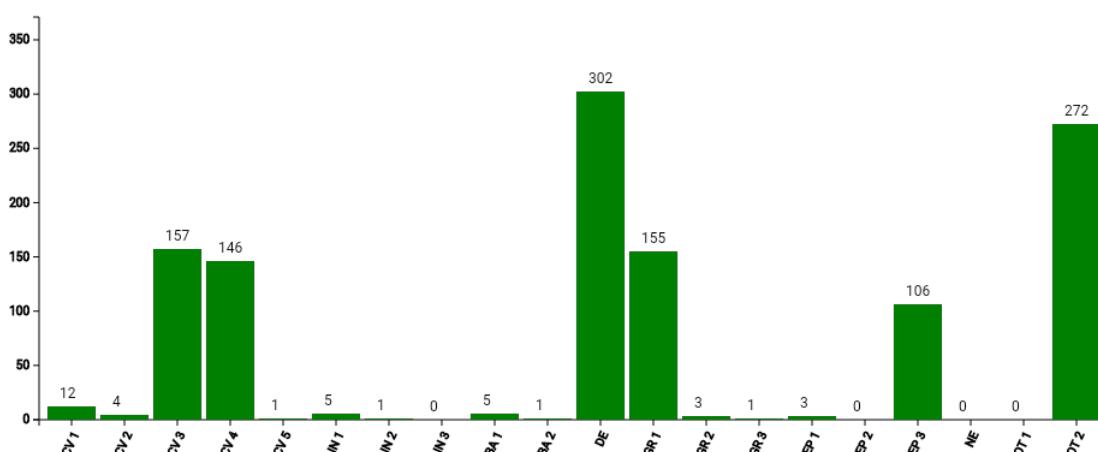


Competitor (98.8 %)
Structure (1.2 %)
Target diameter (0 %)
Regeneration (0 %)
Sanitary (0 %)

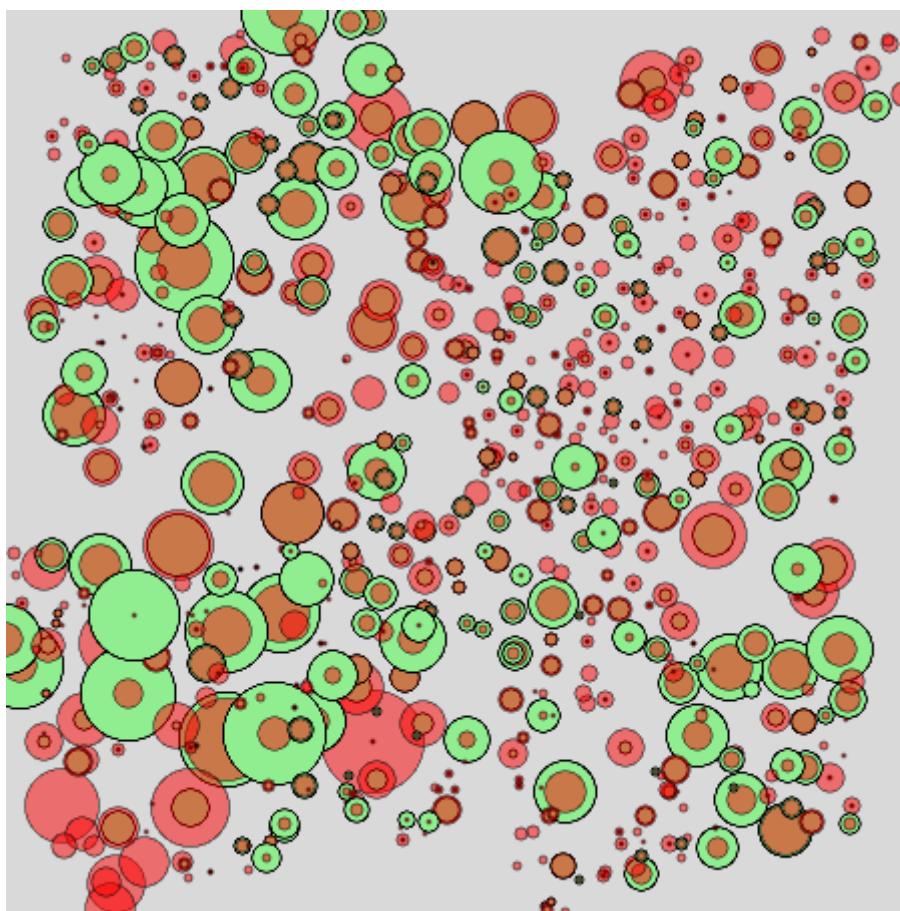
Reasons for retention



Elite tree (92 %)
Habitat tree (8 %)
Seed tree (0 %)
Diversity (0 %)
Veteran 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
common beech (459) <i>Fagus sylvatica</i>	57.7	0.26	3.6	306	82	Competitor
silver fir (480) <i>Abies alba</i>	53.2	0.22	3.5	197	0	Competitor
sycamore maple (358) <i>Acer pseudoplatanus</i>	53	0.22	1.4	120	68	Competitor
common beech (279) <i>Fagus sylvatica</i>	50.5	0.2	2.5	216	221	Competitor
common beech (389) <i>Fagus sylvatica</i>	50.2	0.2	2.5	210	66	Competitor
common beech (476) <i>Fagus sylvatica</i>	48.9	0.19	2.5	209	49	Competitor
common beech (629) <i>Fagus sylvatica</i>	46.8	0.17	2	166	136	Competitor
common beech (407) <i>Fagus sylvatica</i>	46.7	0.17	2.1	173	136	Competitor
common beech (357) <i>Fagus sylvatica</i>	46.2	0.17	2.2	189	44	Competitor
common beech (299) <i>Fagus sylvatica</i>	46.2	0.17	2.1	180	105	Competitor
common beech (242) <i>Fagus sylvatica</i>	45.5	0.16	2	172	51	Competitor
common beech (391) <i>Fagus sylvatica</i>	45.2	0.16	1.7	144	44	Competitor
common beech (261) <i>Fagus sylvatica</i>	44.4	0.16	1.8	152	74	Competitor
common beech (329) <i>Fagus sylvatica</i>	44.3	0.15	1.8	152	15	Competitor
common beech (536) <i>Fagus sylvatica</i>	43	0.15	1.7	139	32	Competitor
common beech (566) <i>Fagus sylvatica</i>	42.6	0.14	1.8	154	78	Competitor
common beech (424) <i>Fagus sylvatica</i>	42.3	0.14	1.6	134	231	Competitor
sycamore maple (455) <i>Acer pseudoplatanus</i>	42.3	0.14	1.4	121	60	Competitor
common beech (258) <i>Fagus sylvatica</i>	41.7	0.14	1.6	136	46	Competitor
common beech (235) <i>Fagus sylvatica</i>	41.1	0.13	1.8	152	96	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (529) <i>Fagus sylvatica</i>	40.5	0.13	1.4	117	33	Competitor
silver fir (412) <i>Abies alba</i>	40.4	0.13	1.4	122	0	Competitor
common beech (207) <i>Fagus sylvatica</i>	40.1	0.13	1.5	128	104	Competitor
common beech (385) <i>Fagus sylvatica</i>	39.7	0.12	1.5	126	45	Competitor
common beech (640) <i>Fagus sylvatica</i>	39.6	0.12	1.2	100	71	Competitor
common beech (280) <i>Fagus sylvatica</i>	38.5	0.12	1.3	113	120	Competitor
common beech (530) <i>Fagus sylvatica</i>	37.2	0.11	1.1	92	83	Competitor
common beech (565) <i>Fagus sylvatica</i>	35.8	0.1	1.1	95	27	Competitor
common beech (364) <i>Fagus sylvatica</i>	35.5	0.1	1.1	93	128	Competitor
common beech (574) <i>Fagus sylvatica</i>	35	0.1	1.1	90	8	Competitor
common beech (526) <i>Fagus sylvatica</i>	35	0.1	1.1	94	50	Competitor
common beech (275) <i>Fagus sylvatica</i>	35	0.1	1.2	101	62	Competitor
common beech (149) <i>Fagus sylvatica</i>	34.8	0.1	1	85	21	Competitor
common beech (379) <i>Fagus sylvatica</i>	34.8	0.1	0.9	79	20	Competitor
common beech (272) <i>Fagus sylvatica</i>	34.7	0.1	1.1	92	42	Competitor
common beech (23) <i>Fagus sylvatica</i>	34.2	0.09	1.1	98	12	Competitor
common beech (612) <i>Fagus sylvatica</i>	34	0.09	1	84	34	Competitor
common beech (519) <i>Fagus sylvatica</i>	33.6	0.09	0.9	77	42	Competitor
common beech (226) <i>Fagus sylvatica</i>	33.6	0.09	1.1	93	18	Competitor
common beech (58) <i>Fagus sylvatica</i>	33.6	0.09	1	89	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (216) <i>Fagus sylvatica</i>	33	0.09	0.9	80	48	Competitor
common beech (535) <i>Fagus sylvatica</i>	33	0.09	0.9	80	44	Competitor
common beech (40) <i>Fagus sylvatica</i>	32.8	0.08	1	83	36	Competitor
common beech (641) <i>Fagus sylvatica</i>	32.5	0.08	0.8	70	59	Competitor
common beech (262) <i>Fagus sylvatica</i>	31.6	0.08	0.8	72	55	Competitor
common beech (256) <i>Fagus sylvatica</i>	31.2	0.08	0.7	63	44	Competitor
common beech (289) <i>Fagus sylvatica</i>	31	0.08	0.7	63	22	Competitor
common beech (70) <i>Fagus sylvatica</i>	31	0.08	0.8	71	38	Competitor
common beech (383) <i>Fagus sylvatica</i>	30.8	0.08	0.8	69	6	Competitor
common beech (217) <i>Fagus sylvatica</i>	30.7	0.07	0.9	73	67	Competitor
common beech (621) <i>Fagus sylvatica</i>	30.5	0.07	0.8	66	3	Competitor
common beech (527) <i>Fagus sylvatica</i>	30.2	0.07	0.7	60	47	Competitor
common beech (82) <i>Fagus sylvatica</i>	30.2	0.07	0.8	65	0	Competitor
common beech (152) <i>Fagus sylvatica</i>	30.2	0.07	0.8	65	9	Competitor
common beech (24) <i>Fagus sylvatica</i>	30	0.07	0.7	64	48	Competitor
common beech (283) <i>Fagus sylvatica</i>	29.4	0.07	0.7	57	36	Competitor
common beech (83) <i>Fagus sylvatica</i>	29.2	0.07	0.8	67	39	Competitor
common beech (26) <i>Fagus sylvatica</i>	29.1	0.07	0.7	57	36	Competitor
common beech (502) <i>Fagus sylvatica</i>	28.5	0.06	0.6	53	20	Structure
common beech (276) <i>Fagus sylvatica</i>	28.5	0.06	0.7	59	32	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (102) <i>Fagus sylvatica</i>	28.5	0.06	0.6	52	6	Competitor
common beech (103) <i>Fagus sylvatica</i>	28	0.06	0.6	52	12	Competitor
common beech (581) <i>Fagus sylvatica</i>	28	0.06	0.8	66	0	Competitor
common beech (288) <i>Fagus sylvatica</i>	27.9	0.06	0.6	49	0	Competitor
common beech (528) <i>Fagus sylvatica</i>	26.9	0.06	0.5	44	72	Competitor
common beech (560) <i>Fagus sylvatica</i>	25.7	0.05	0.6	47	0	Competitor
common beech (76) <i>Fagus sylvatica</i>	25.6	0.05	0.5	45	0	Competitor
common beech (75) <i>Fagus sylvatica</i>	24.3	0.05	0.5	39	12	Competitor
common beech (387) <i>Fagus sylvatica</i>	24	0.05	0.4	37	0	Competitor
common beech (445) <i>Fagus sylvatica</i>	23.9	0.05	0.5	40	36	Competitor
common beech (297) <i>Fagus sylvatica</i>	23.9	0.05	0.5	38	0	Competitor
common beech (458) <i>Fagus sylvatica</i>	23.8	0.04	0.5	43	12	Competitor
common beech (637) <i>Fagus sylvatica</i>	23.7	0.04	0.5	46	15	Competitor
common beech (523) <i>Fagus sylvatica</i>	23.6	0.04	0.6	50	0	Competitor
common beech (168) <i>Fagus sylvatica</i>	22.7	0.04	0.4	36	6	Competitor
common beech (658) <i>Fagus sylvatica</i>	22.7	0.04	0.5	43	0	Competitor
common beech (452) <i>Fagus sylvatica</i>	21.6	0.04	0.4	30	0	Competitor
common beech (604) <i>Fagus sylvatica</i>	21.1	0.04	0.4	31	12	Competitor
common beech (655) <i>Fagus sylvatica</i>	20.2	0.03	0.3	29	8	Competitor
common beech (453) <i>Fagus sylvatica</i>	19.4	0.03	0.3	29	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (582) <i>Fagus sylvatica</i>	19	0.03	0.3	26	0	Competitor
common beech (454) <i>Fagus sylvatica</i>	16.8	0.02	0.2	20	202	Competitor
common beech (470) <i>Fagus sylvatica</i>	16.2	0.02	0.2	18	0	Competitor
common beech (457) <i>Fagus sylvatica</i>	15.9	0.02	0.2	20	12	Competitor

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
silver fir (469) <i>Abies alba</i>	65.5	0.34	4.3	277	34	Elite tree
silver fir (390) <i>Abies alba</i>	63.2	0.31	4.7	411	6	Elite tree
common beech (443) <i>Fagus sylvatica</i>	60.7	0.29	3.8	326	212	Habitat tree
common beech (546) <i>Fagus sylvatica</i>	58	0.26	3.1	264	96	Elite tree
common beech (218) <i>Fagus sylvatica</i>	55	0.24	3.2	271	76	Elite tree
common beech (150) <i>Fagus sylvatica</i>	53	0.22	2.4	207	104	Elite tree
sycamore maple (403) <i>Acer pseudoplatanus</i>	52.2	0.21	1.4	0	120	Elite tree
sycamore maple (292) <i>Acer pseudoplatanus</i>	50	0.2	1.4	121	0	Elite tree
common beech (540) <i>Fagus sylvatica</i>	49.8	0.2	2.3	198	118	Elite tree
common beech (522) <i>Fagus sylvatica</i>	48.2	0.18	1.9	159	129	Elite tree
sycamore maple (260) <i>Acer pseudoplatanus</i>	47.6	0.18	1.4	122	134	Elite tree
common beech (342) <i>Fagus sylvatica</i>	46.5	0.17	2.1	178	142	Elite tree
sycamore maple (89) <i>Acer pseudoplatanus</i>	44	0.15	1.4	122	52	Elite tree
common beech (596) <i>Fagus sylvatica</i>	44	0.15	1.7	143	30	Elite tree
common beech (243) <i>Fagus sylvatica</i>	43.7	0.15	1.9	159	26	Elite tree
common beech (244) <i>Fagus sylvatica</i>	43	0.15	1.8	154	142	Elite tree
common beech (534) <i>Fagus sylvatica</i>	42.2	0.14	1.5	130	38	Elite tree
sycamore maple (654) <i>Acer pseudoplatanus</i>	41.6	0.14	1.3	110	22	Elite tree
sycamore maple (359) <i>Acer pseudoplatanus</i>	41	0.13	1.4	120	148	Elite tree
common beech (71) <i>Fagus sylvatica</i>	40.5	0.13	1.5	128	6	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (384) <i>Fagus sylvatica</i>	39.5	0.12	1.3	113	28	Elite tree
common beech (622) <i>Fagus sylvatica</i>	37.7	0.11	1.5	125	113	Elite tree
common beech (367) <i>Fagus sylvatica</i>	33.3	0.09	1	85	9	Elite tree
common beech (67) <i>Fagus sylvatica</i>	30.6	0.07	0.8	67	84	Habitat tree
sycamore maple (25) <i>Acer pseudoplatanus</i>	27.9	0.06	0.6	55	52	Elite tree