

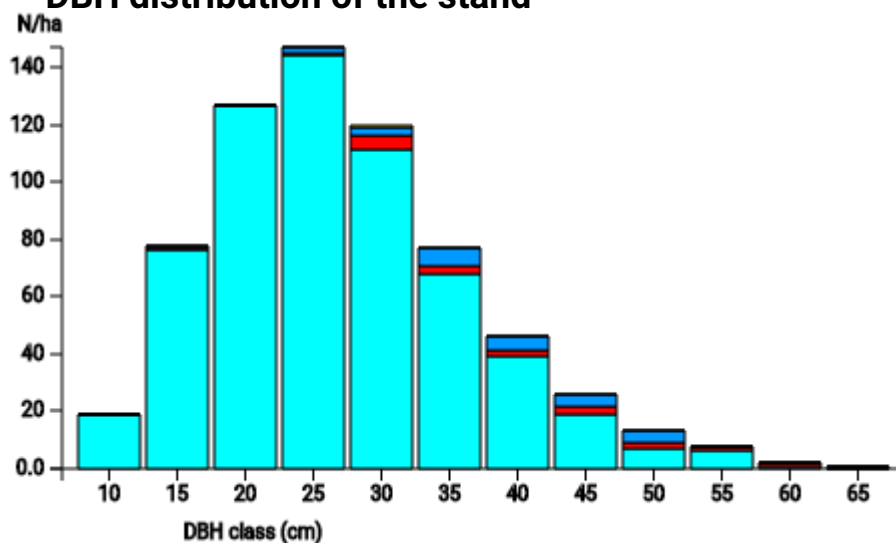
02/03/2021 Gruppo C

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 %)

common beech: 86.8 %
 silver fir: 7.7 %
 sycamore maple: 5.4 %
 goat willow: 0.1 %

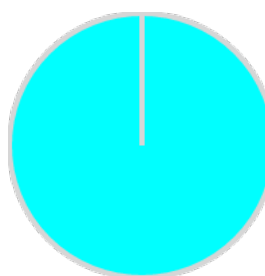
DBH distribution of the stand**Initial stand (details by tree species)**

Tree species	N/ha	Basal area (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
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 treesVolume: 50.1 m³Basal area: 4.7 m²

Economic value: 4264 €

Habitat value: 1608 pts.

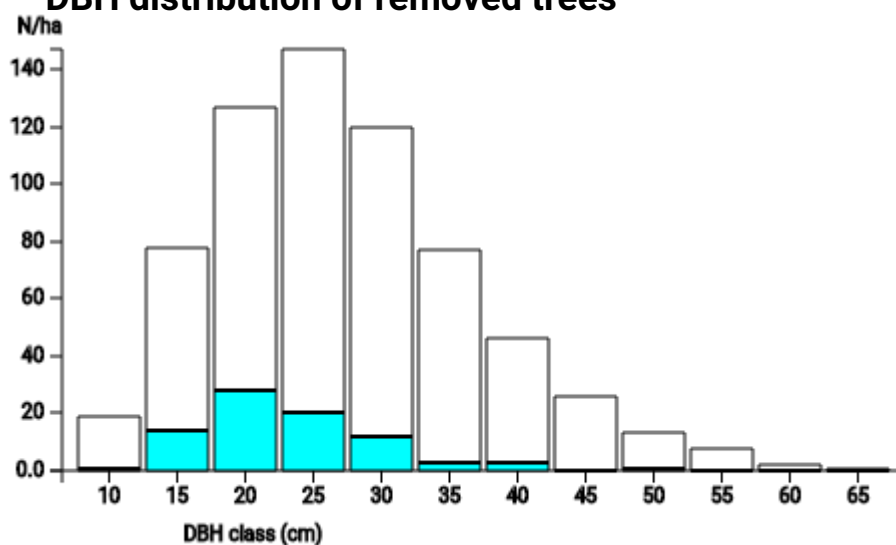
Removed trees (N in %)

common beech: 100 %

silver fir: 0 %

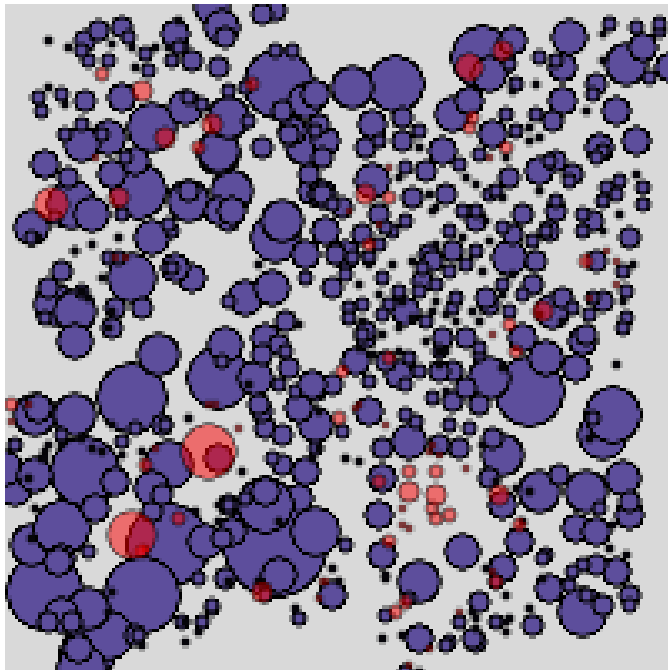
sycamore maple: 0 %

goat willow: 0 %

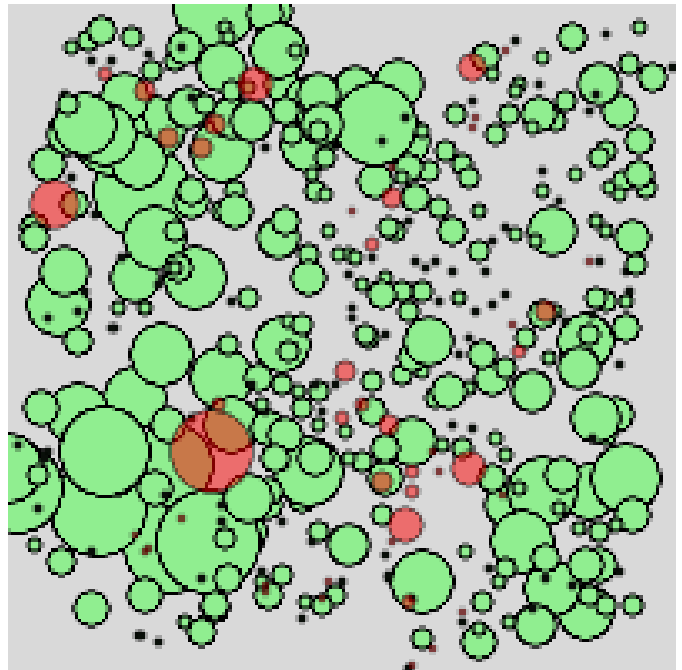
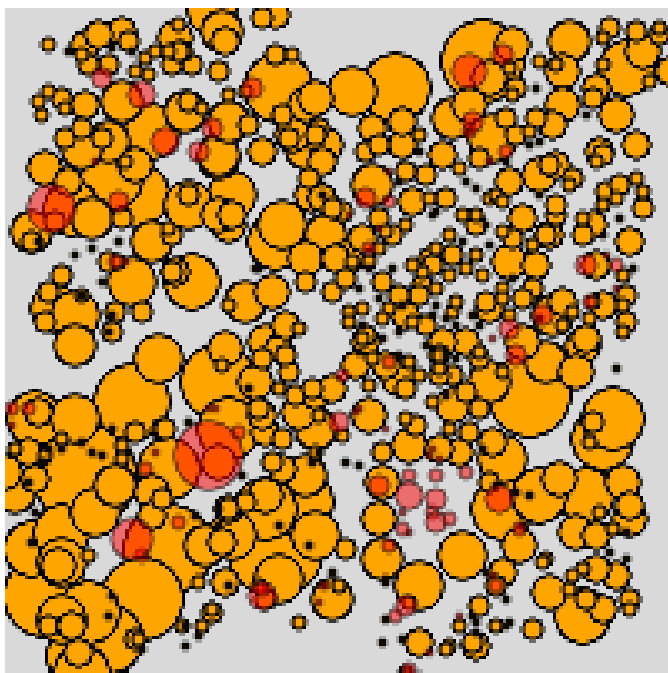
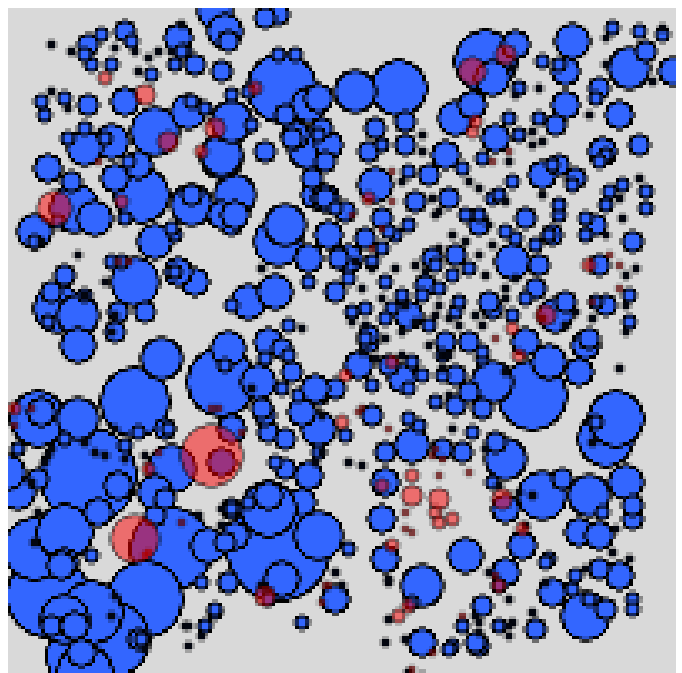
DBH distribution of removed trees**Removed trees (details by tree species)**

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	82	4.7	50.2	4264	1608	106
goat willow	0	0	0	0	0	0
silver fir	0	0	0	0	0	0
sycamore maple	0	0	0	0	0	0
Total	82	4.7	50.2	4264	1608	106

Economic value [EUR]



Habitat value

Basal area [m²]Volume [m³]**Description:**

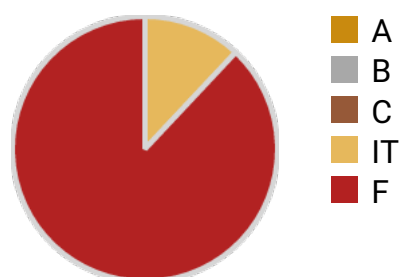
Red circles (removed trees); circle size according to numerical values (e.g. large circles mean high values); trees with very low values (e.g. habitat value "0") are not visible.

Economic values

Total value of removed trees: 4264 €
 Percentage of total stand value: 9.1 %
 Stand value after harvest: 42522 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	4264	85
silver fir	0	0
sycamore maple	0	0
goat willow	0	0
Total	4264	85

**Wood quality distribution
(m³ in %)**

Quality class	m ³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	6	12
Fuelwood	44.1	88

Habitat values

Total habitat value of removed trees: 1608 pts.
 Percentage of total stand value: 7.4 %
 Stand value after harvest: 20133 pts.

Habitat value by tree species [pts.]

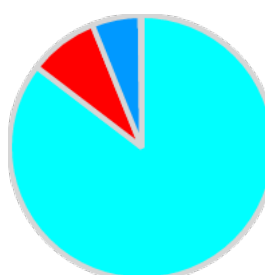
Tree species	Total	Per m ³	Microhabitats [N]
common beech	1608	32.1	106
silver fir	0	0	0
sycamore maple	0	0	0
goat willow	0	0	0
Total	1608	32.1	106

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

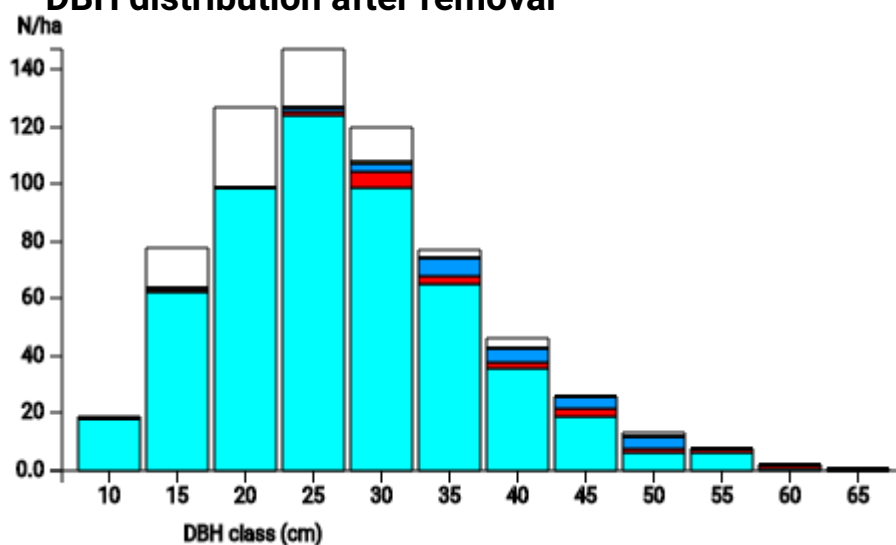
Remaining standVolume: 507.7 m³Basal area: 46.2 m²

Economic value: 42522 €

Habitat value: 20133 pts.

Remaining trees by volume (m³ in %)

common beech: 85.5 %
 silver fir: 8.5 %
 sycamore maple: 5.9 %
 goat willow: 0.2 %

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	535	39.6	433.8	36983	18200	1177
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	582	46.2	507.7	42522	20133	1304

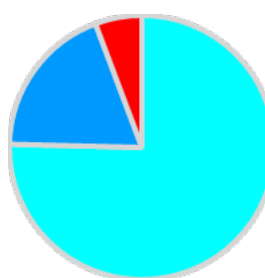
Retention treesVolume: 45.3 m³

Elite trees: 21

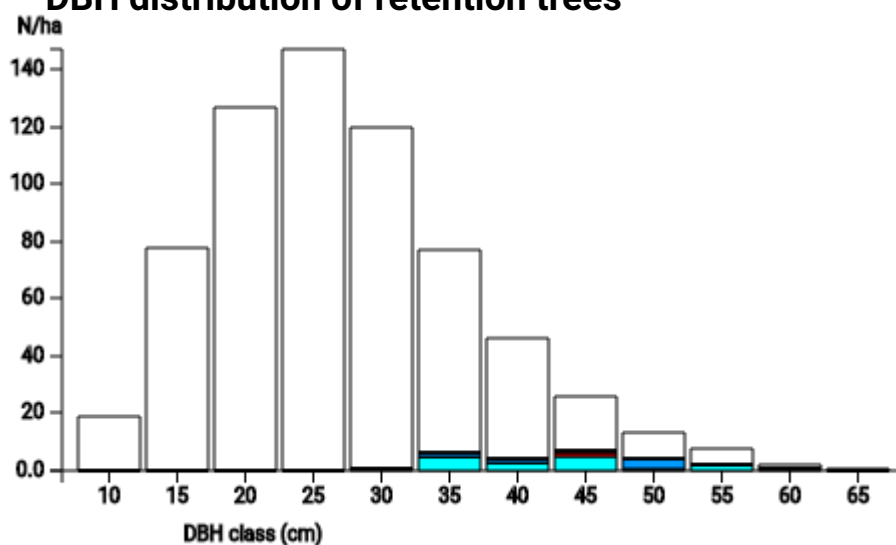
Habitat trees: 3

Economic value: 3681 €

Habitat value: 1971 pts.

Retention trees by volume (m³ in %)

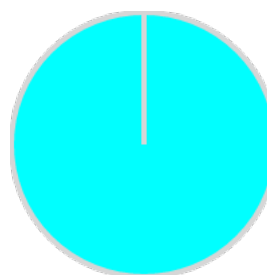
- common beech: 75.4 %
- sycamore maple: 18.9 %
- silver fir: 5.7 %
- goat willow: 0 %

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)
common beech	18	2.9	34.1	2900	1522	78
goat willow	0	0	0	0	0	0
silver fir	1	0.2	2.6	176	3	1
sycamore maple	6	1.1	8.6	605	446	27
Total	25	4.2	45.2	3681	1971	106

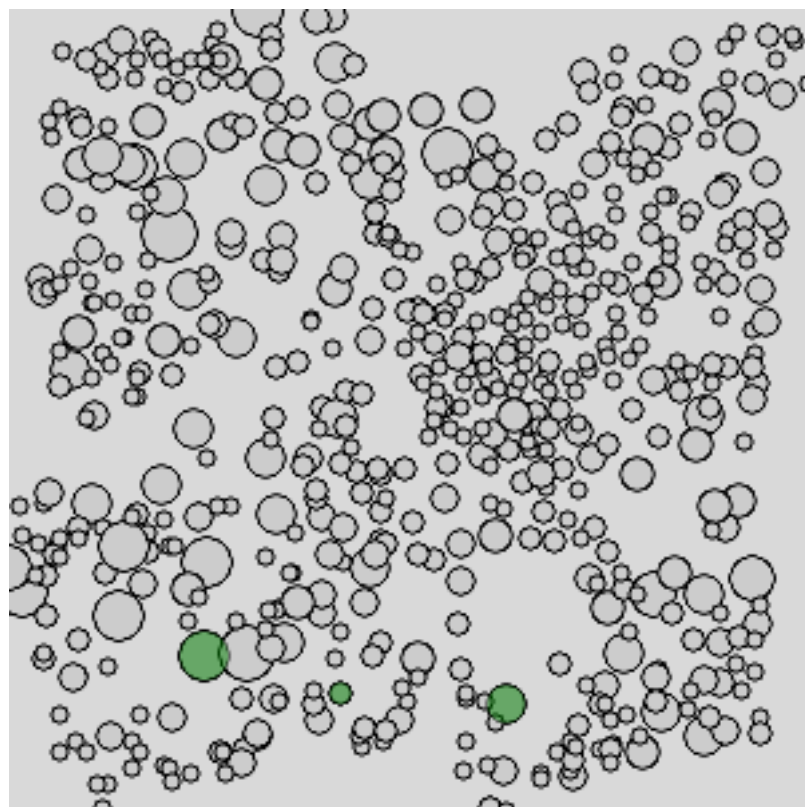
Number of habitat trees	[N]	3
Habitat value	pts.	392
	[% of total]	1.8
Economic value	[€]	636
	[% of total]	1.4
Number of microhabitats	[N]	21
	[% of total]	1.5

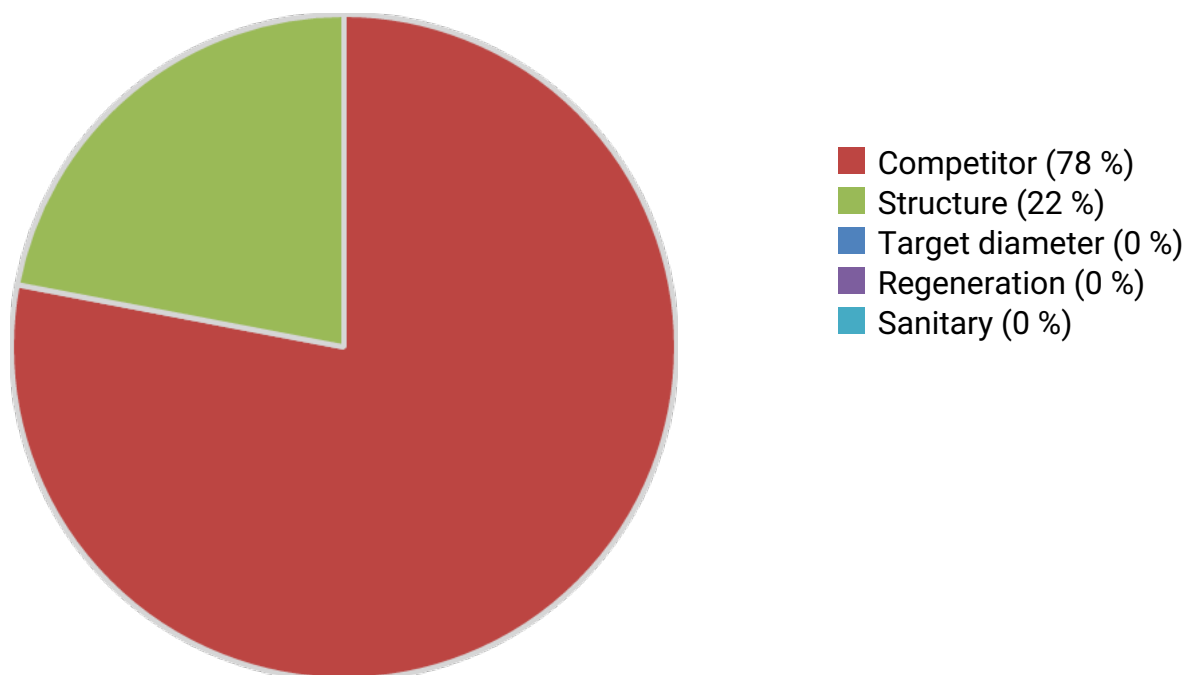
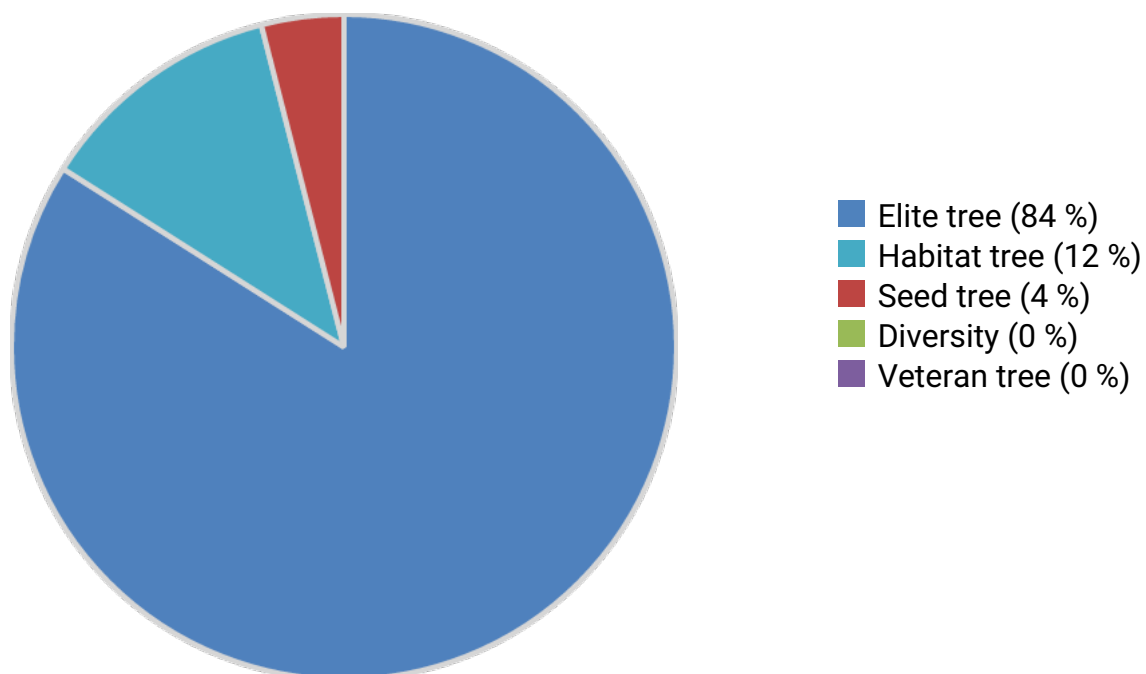
Habitat tree distribution by species (N in %)

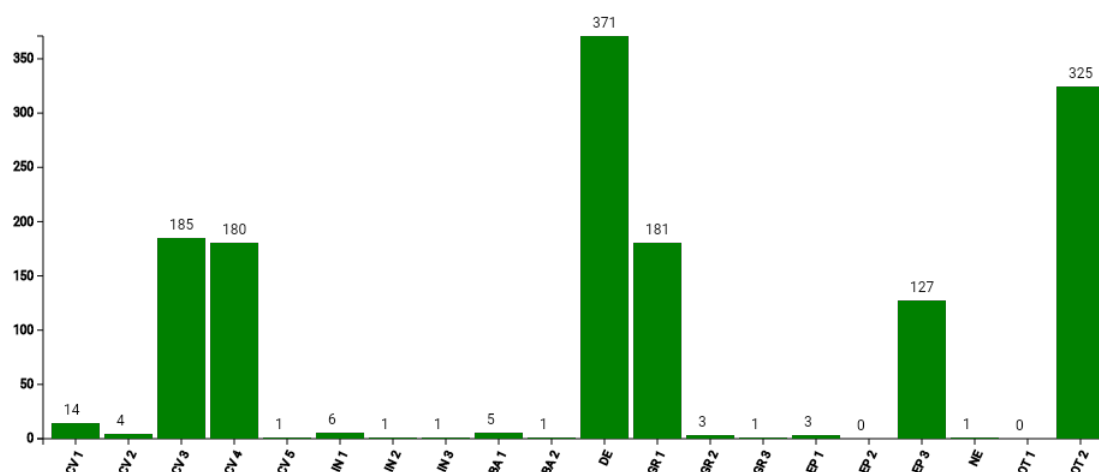
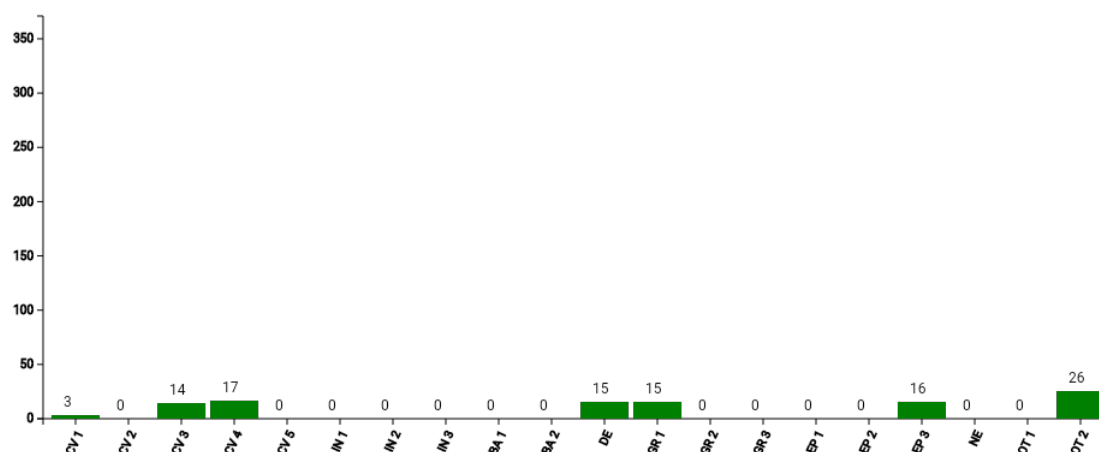
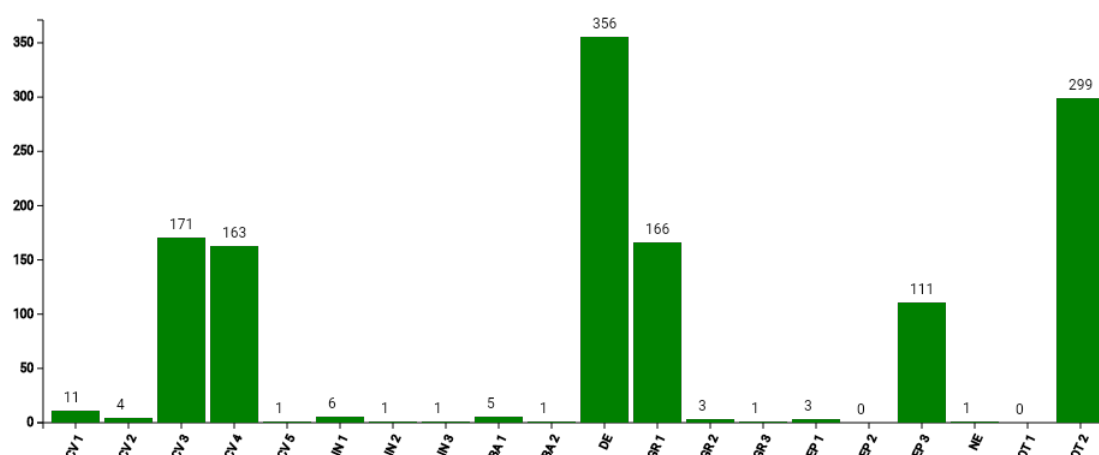


- common beech: 100 %
- silver fir: 0 %
- sycamore maple: 0 %
- goat willow: 0 %

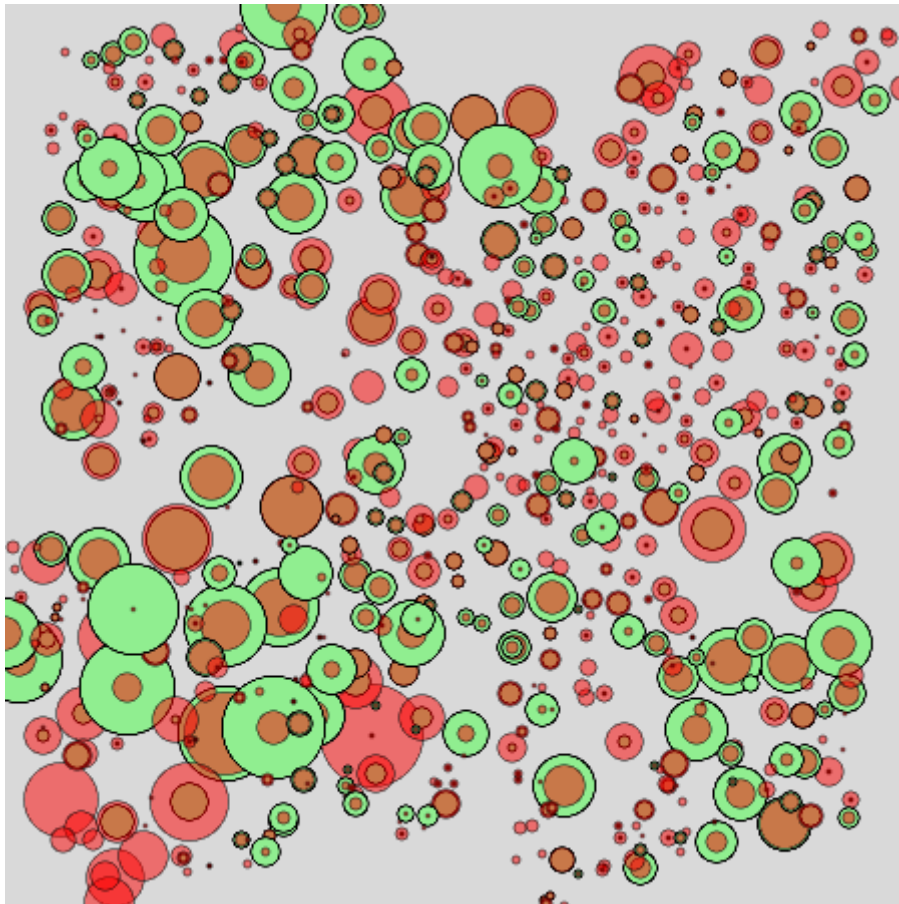
Spatial distribution of habitat trees



Reasons for removal**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 (m²)	Volume (m³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (411) Fagus sylvatica	54.5	0.23	2.8	232	180	Competitor
common beech (333) Fagus sylvatica	44.7	0.16	1.7	144	114	Competitor
common beech (456) Fagus sylvatica	43.4	0.15	2.1	180	22	Competitor
common beech (108) Fagus sylvatica	40	0.13	1.4	118	56	Competitor
common beech (270) Fagus sylvatica	36.2	0.1	1.1	90	42	Competitor
common beech (624) Fagus sylvatica	35	0.1	1	80	36	Structure
common beech (574) Fagus sylvatica	35	0.1	1.1	90	8	Competitor
common beech (272) Fagus sylvatica	34.7	0.1	1.1	92	42	Competitor
common beech (396) Fagus sylvatica	33.5	0.09	0.9	77	12	Structure
common beech (535) Fagus sylvatica	33	0.09	0.9	80	44	Competitor
common beech (87) Fagus sylvatica	32.6	0.08	0.9	79	8	Competitor
common beech (34) Fagus sylvatica	32.1	0.08	0.8	68	14	Competitor
common beech (639) Fagus sylvatica	31.6	0.08	0.6	54	44	Structure
common beech (169) Fagus sylvatica	31.3	0.08	0.8	70	0	Competitor
common beech (256) Fagus sylvatica	31.2	0.08	0.7	63	44	Competitor
common beech (228) Fagus sylvatica	30.9	0.08	0.8	68	84	Competitor
common beech (549) Fagus sylvatica	30.8	0.08	0.8	67	21	Competitor
common beech (245) Fagus sylvatica	30.4	0.07	0.9	73	42	Competitor
common beech (607) Fagus sylvatica	30	0.07	0.9	74	3	Structure
common beech (547) Fagus sylvatica	29.6	0.07	0.8	66	36	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (283) Fagus sylvatica	29.4	0.07	0.7	57	36	Competitor
common beech (605) Fagus sylvatica	29.2	0.07	0.7	62	0	Structure
common beech (293) Fagus sylvatica	29	0.07	0.8	69	0	Competitor
common beech (650) Fagus sylvatica	28.7	0.07	0.7	58	36	Competitor
common beech (635) Fagus sylvatica	28.6	0.06	0.8	67	26	Competitor
common beech (104) Fagus sylvatica	28.5	0.06	0.7	60	12	Competitor
common beech (606) Fagus sylvatica	28.1	0.06	0.7	60	0	Structure
common beech (103) Fagus sylvatica	28	0.06	0.6	52	12	Competitor
common beech (581) Fagus sylvatica	28	0.06	0.8	66	0	Competitor
common beech (595) Fagus sylvatica	27.8	0.06	0.7	60	6	Structure
common beech (648) Fagus sylvatica	27.7	0.06	0.7	58	48	Competitor
common beech (623) Fagus sylvatica	27.7	0.06	0.6	54	29	Structure
common beech (187) Fagus sylvatica	27.2	0.06	0.6	53	0	Competitor
common beech (434) Fagus sylvatica	26.9	0.06	0.7	58	6	Competitor
common beech (560) Fagus sylvatica	25.7	0.05	0.6	47	0	Competitor
common beech (657) Fagus sylvatica	25.4	0.05	0.5	47	0	Competitor
common beech (154) Fagus sylvatica	25.2	0.05	0.5	42	48	Competitor
common beech (81) Fagus sylvatica	25.2	0.05	0.5	44	6	Competitor
common beech (661) Fagus sylvatica	25.1	0.05	0.5	41	21	Competitor
common beech (494) Fagus sylvatica	24.8	0.05	0.6	47	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (33) Fagus sylvatica	24.7	0.05	0.5	40	0	Competitor
common beech (608) Fagus sylvatica	24.6	0.05	0.5	43	9	Structure
common beech (437) Fagus sylvatica	24.1	0.05	0.5	44	18	Competitor
common beech (387) Fagus sylvatica	24	0.05	0.4	37	0	Competitor
common beech (584) Fagus sylvatica	24	0.05	0.5	40	71	Structure
common beech (13) Fagus sylvatica	24	0.05	0.4	35	3	Competitor
common beech (297) Fagus sylvatica	23.9	0.05	0.5	38	0	Competitor
common beech (182) Fagus sylvatica	23.9	0.05	0.5	43	27	Competitor
common beech (471) Fagus sylvatica	23.8	0.04	0.5	40	0	Competitor
common beech (458) Fagus sylvatica	23.8	0.04	0.5	43	12	Competitor
common beech (637) Fagus sylvatica	23.7	0.04	0.5	46	15	Structure
common beech (398) Fagus sylvatica	23.3	0.04	0.5	39	12	Competitor
common beech (627) Fagus sylvatica	23.2	0.04	0.4	36	72	Structure
common beech (180) Fagus sylvatica	23	0.04	0.5	40	12	Competitor
common beech (153) Fagus sylvatica	22.8	0.04	0.4	32	8	Competitor
common beech (168) Fagus sylvatica	22.7	0.04	0.4	36	6	Competitor
common beech (374) Fagus sylvatica	22.6	0.04	0.4	33	12	Competitor
common beech (550) Fagus sylvatica	22.6	0.04	0.4	36	0	Competitor
common beech (492) Fagus sylvatica	22.5	0.04	0.3	28	0	Competitor
common beech (310) Fagus sylvatica	22.4	0.04	0.4	31	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (405) Fagus sylvatica	22.2	0.04	0.4	30	6	Competitor
common beech (609) Fagus sylvatica	21.8	0.04	0.4	32	0	Structure
common beech (604) Fagus sylvatica	21.1	0.04	0.4	31	12	Competitor
common beech (369) Fagus sylvatica	21	0.04	0.4	30	0	Competitor
common beech (90) Fagus sylvatica	21	0.04	0.3	26	0	Competitor
common beech (11) Fagus sylvatica	20.5	0.03	0.3	26	0	Competitor
common beech (298) Fagus sylvatica	20.4	0.03	0.3	29	0	Competitor
common beech (30) Fagus sylvatica	19.8	0.03	0.3	24	0	Competitor
common beech (370) Fagus sylvatica	19.8	0.03	0.3	28	12	Competitor
common beech (625) Fagus sylvatica	19.7	0.03	0.3	29	0	Structure
common beech (404) Fagus sylvatica	19.2	0.03	0.3	25	36	Competitor
common beech (644) Fagus sylvatica	19.2	0.03	0.3	21	0	Competitor
common beech (610) Fagus sylvatica	19.2	0.03	0.2	20	14	Structure
common beech (642) Fagus sylvatica	19.1	0.03	0.3	23	50	Competitor
common beech (582) Fagus sylvatica	19	0.03	0.3	26	0	Competitor
common beech (628) Fagus sylvatica	19	0.03	0.3	24	0	Structure
common beech (645) Fagus sylvatica	18.9	0.03	0.3	23	36	Competitor
common beech (611) Fagus sylvatica	18.7	0.03	0.3	24	0	Structure
common beech (632) Fagus sylvatica	16.4	0.02	0.2	21	15	Competitor
common beech (427) Fagus sylvatica	16	0.02	0.2	18	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (457) Fagus sylvatica	15.9	0.02	0.2	20	12	Competitor
common beech (626) Fagus sylvatica	13.5	0.01	0.1	9	0	Structure

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (443) Fagus sylvatica	60.7	0.29	3.8	326	212	Habitat tree
common beech (107) Fagus sylvatica	59	0.27	2.9	251	63	Elite tree
common beech (218) Fagus sylvatica	55	0.24	3.2	271	76	Elite tree
sycamore maple (403) Acer pseudoplatanus	52.2	0.21	1.4	0	120	Seed tree
sycamore maple (575) Acer pseudoplatanus	52	0.21	1.4	120	88	Elite tree
common beech (426) Fagus sylvatica	50.1	0.2	2.3	196	183	Elite tree
sycamore maple (292) Acer pseudoplatanus	50	0.2	1.4	121	0	Elite tree
common beech (320) Fagus sylvatica	49.7	0.19	2.2	190	66	Elite tree
silver fir (472) Abies alba	49.1	0.19	2.6	176	3	Elite tree
common beech (271) Fagus sylvatica	48.2	0.18	2.2	190	142	Elite tree
sycamore maple (260) Acer pseudoplatanus	47.6	0.18	1.4	122	134	Elite tree
common beech (629) Fagus sylvatica	46.8	0.17	2	166	136	Habitat tree
common beech (299) Fagus sylvatica	46.2	0.17	2.1	180	105	Elite tree
common beech (391) Fagus sylvatica	45.2	0.16	1.7	144	44	Habitat tree
sycamore maple (89) Acer pseudoplatanus	44	0.15	1.4	122	52	Elite tree
common beech (244) Fagus sylvatica	43	0.15	1.8	154	142	Elite tree
common beech (170) Fagus sylvatica	41.8	0.14	1.5	129	81	Elite tree
common beech (282) Fagus sylvatica	40.6	0.13	1.4	116	114	Elite tree
common beech (548) Fagus sylvatica	39	0.12	1.2	107	39	Elite tree
common beech (643) Fagus sylvatica	38.7	0.12	1.1	96	55	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
sycamore maple (576) <i>Acer pseudoplatanus</i>	36.8	0.11	1.4	120	52	Elite tree
common beech (633) <i>Fagus sylvatica</i>	35.8	0.1	1.2	98	52	Elite tree
common beech (647) <i>Fagus sylvatica</i>	35.6	0.1	1.2	105	0	Elite tree
common beech (31) <i>Fagus sylvatica</i>	35.5	0.1	1	84	12	Elite tree
common beech (181) <i>Fagus sylvatica</i>	34.6	0.09	1.1	95	0	Elite tree