

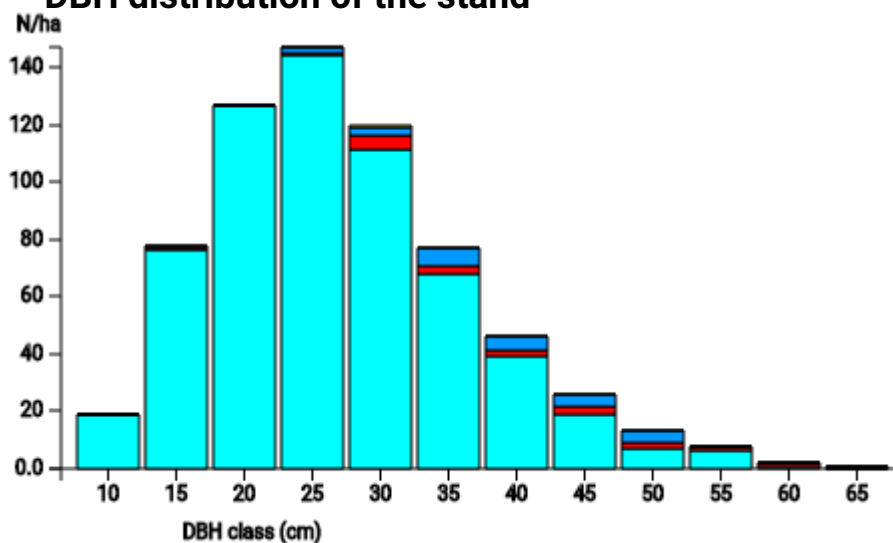
Site conditions

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



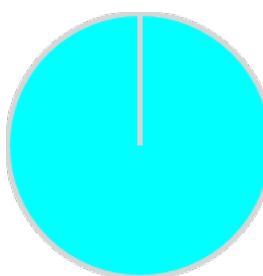
Initial stand (details by tree species)

Tree species	N/ha	Basal area (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 trees

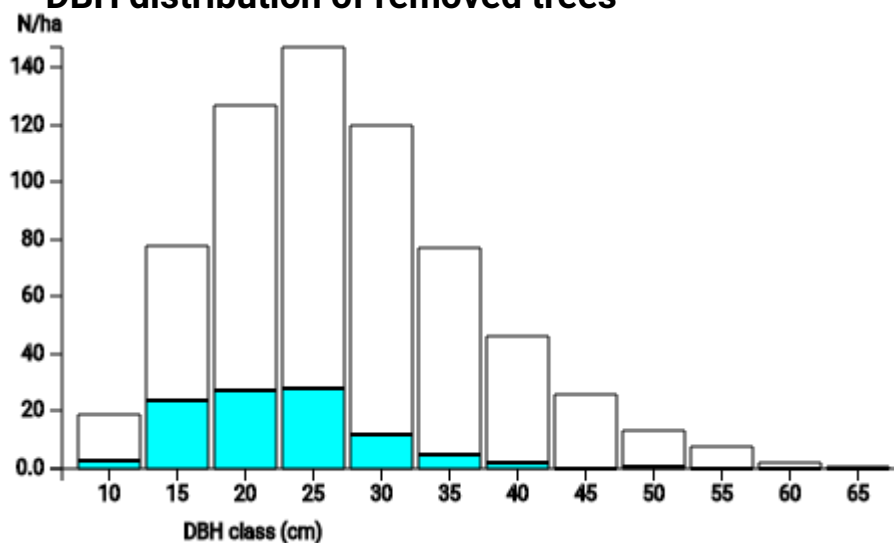
Volume: 56 m³
 Basal area: 5.3 m²
 Economic value: 4779 €
 Habitat value: 1893 pts.

Removed trees (N in %)



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

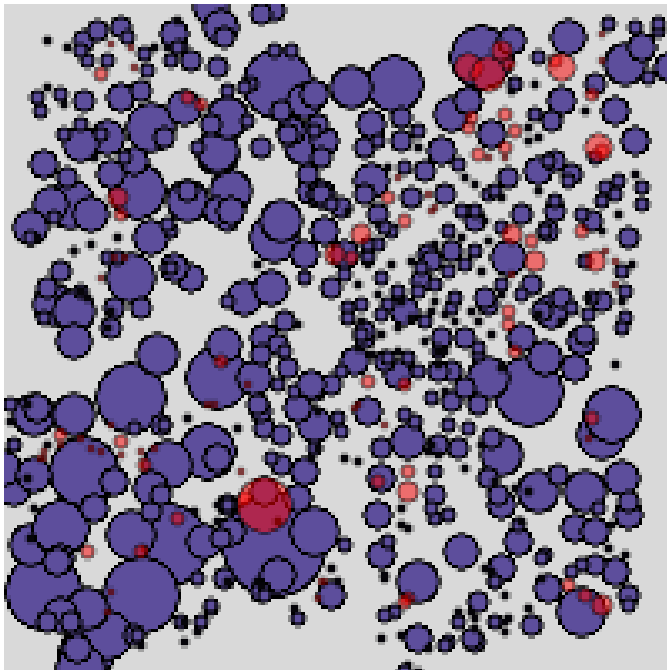
DBH distribution of removed trees



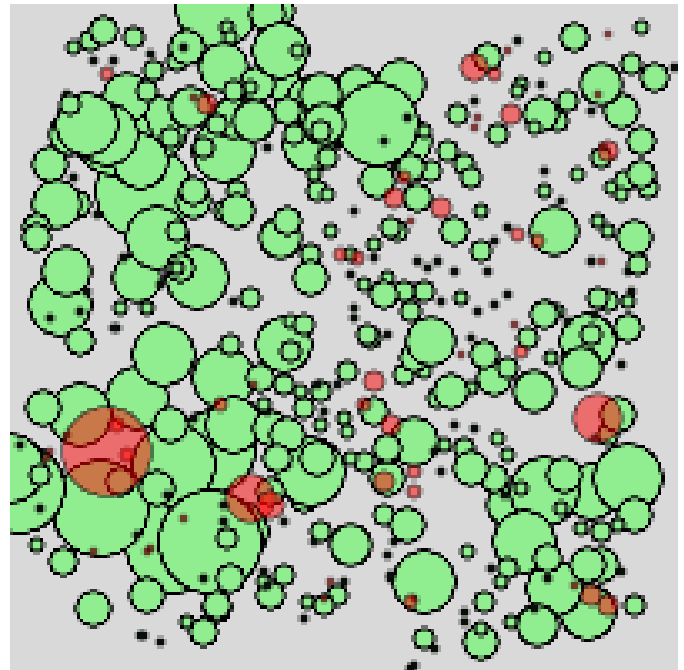
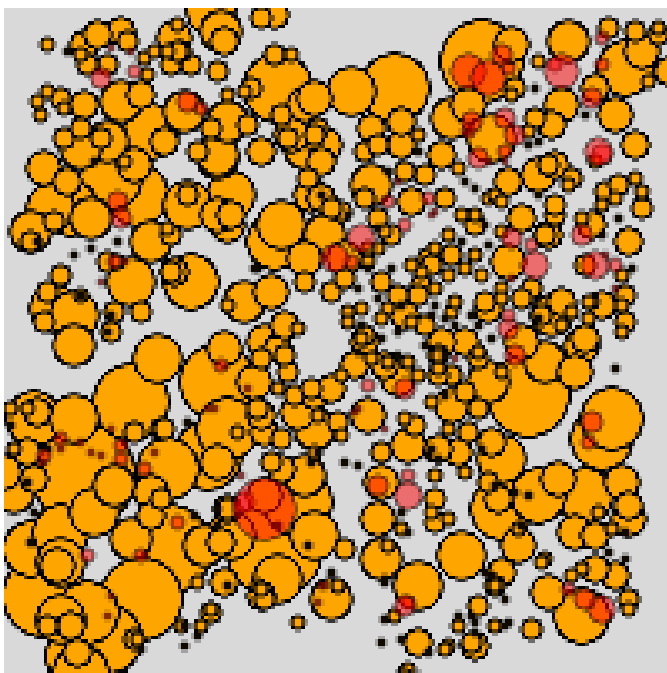
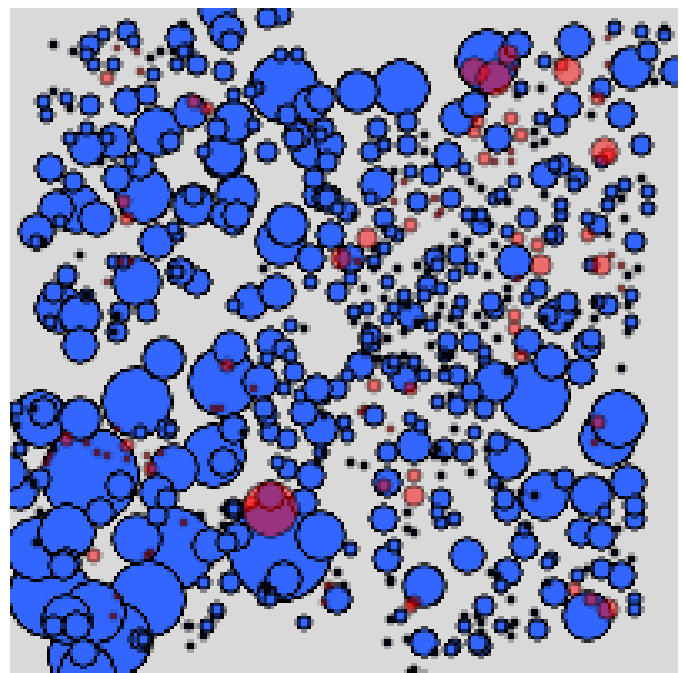
Removed trees (details by tree species)

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	102	5.3	56	4779	1893	133
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	102	5.3	56	4779	1893	133

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.

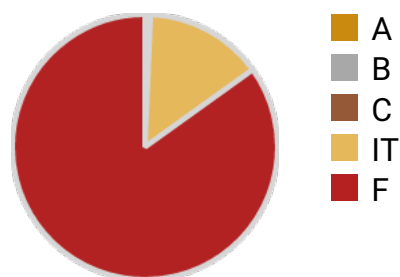
Economic values

Total value of removed trees: 4779 €
 Percentage of total stand value: 10.2 %
 Stand value after harvest: 42007 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	4779	85
silver fir	0	0
sycamore maple	0	0
goat willow	0	0
Total	4779	85

Wood quality distribution (m³ in %)



Quality class	m ³	%
A	0	0
B	0	0
C	0.4	0.7
Industrial Timber	8.1	14.4
Fuelwood	47.6	84.9

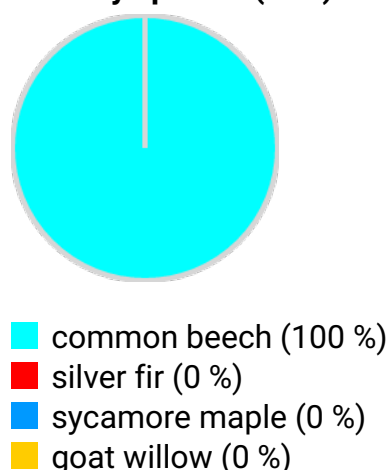
Habitat values

Total habitat value of removed trees: 1893 pts.
 Percentage of total stand value: 8.7 %
 Stand value after harvest: 19848 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m ³	Microhabitats [N]
common beech	1893	33.8	133
silver fir	0	0	0
sycamore maple	0	0	0
goat willow	0	0	0
Total	1893	33.8	133

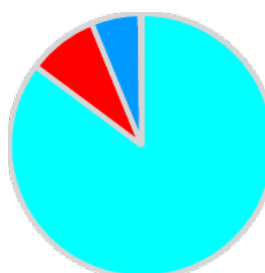
Habitat value (points) of removed trees by species (in %)



Remaining stand

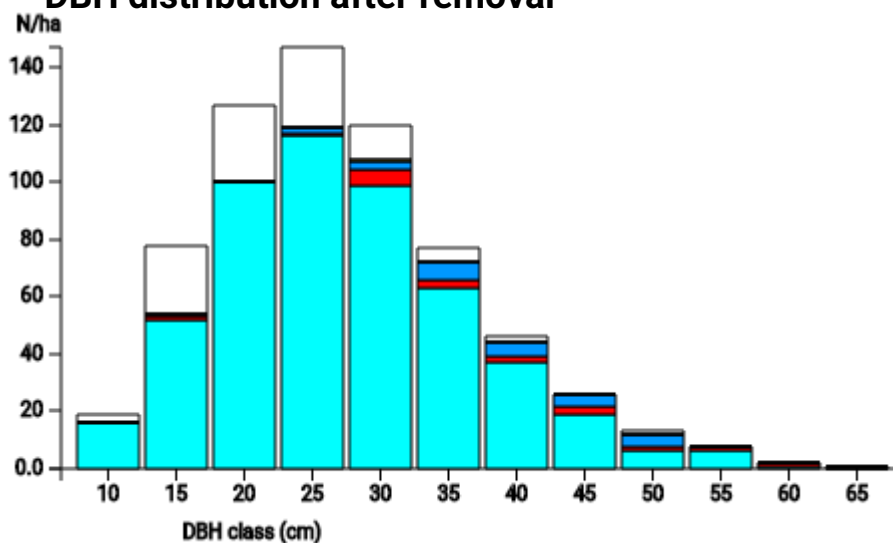
Volume: 501.8 m³
 Basal area: 45.5 m²
 Economic value: 42007 €
 Habitat value: 19848 pts.

Remaining trees by volume (m³ in %)



- common beech: 85.3 %
- silver fir: 8.6 %
- sycamore maple: 6 %
- goat willow: 0.2 %

DBH distribution after removal

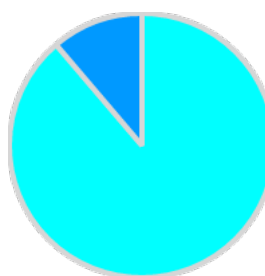


Remaining stand (details by tree species)

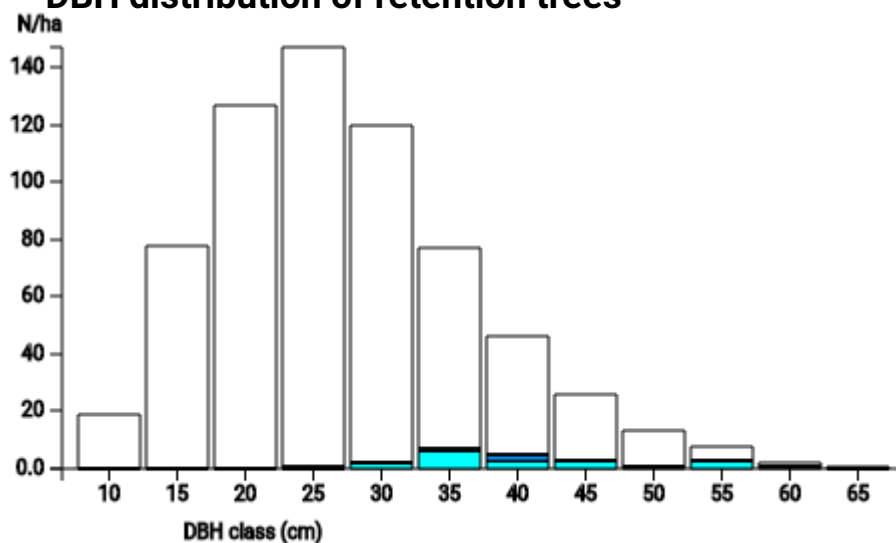
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	515	38.9	428	36468	17915	1150
goat willow	1	0.1	0.8	70	24	3
silver fir	21	3.3	43.1	3060	245	25
sycamore maple	25	3.2	29.9	2409	1664	99
Total	562	45.5	501.9	42007	19848	1277

Retention trees

Volume: 40 m³
 Elite trees: 22
 Habitat trees: 1
 Economic value: 3406 €
 Habitat value: 1817 pts.

Retention trees by volume (m³ in %)

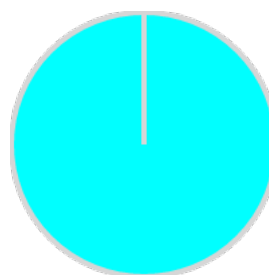
common beech: 88.8 %
 sycamore maple: 11.2 %
 silver fir: 0 %
 goat willow: 0 %

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	19	3.1	35.5	3022	1573	86
goat willow	0	0	0	0	0	0
silver fir	0	0	0	0	0	0
sycamore maple	4	0.4	4.5	384	244	13
Total	23	3.5	40	3406	1817	99

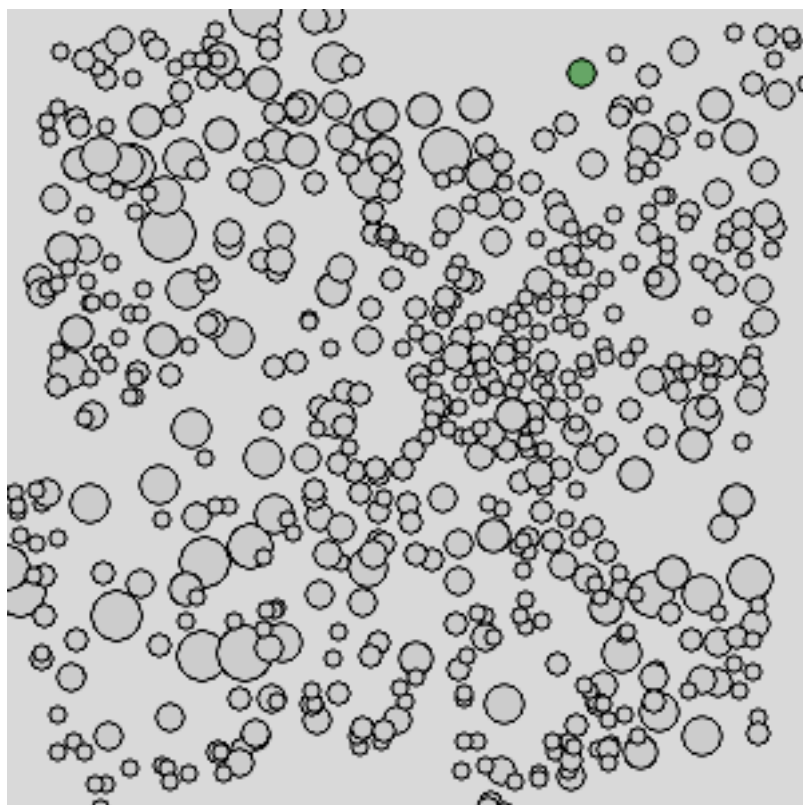
Number of habitat trees	[N]	1
Habitat value	pts.	63
	[% of total]	0.3
Economic value	[€]	251
	[% of total]	0.5
Number of microhabitats	[N]	3
	[% of total]	0.2

Habitat tree distribution by species (N in %)

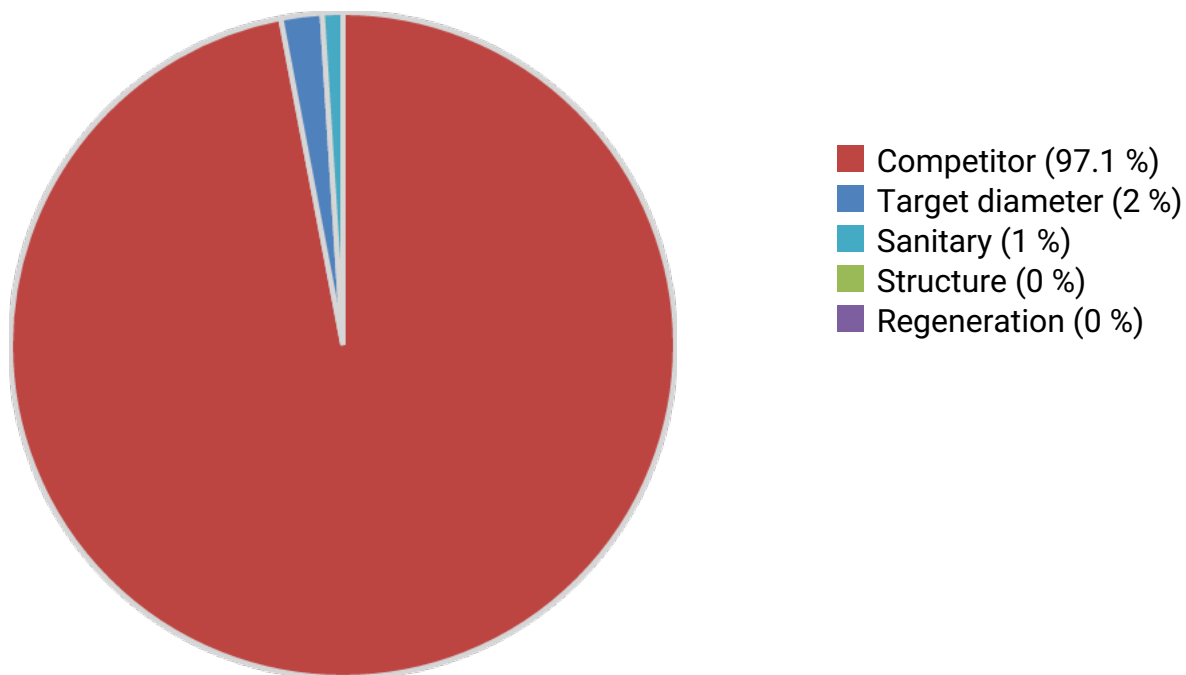


- common beech: 100 %
- silver fir: 0 %
- sycamore maple: 0 %
- goat willow: 0 %

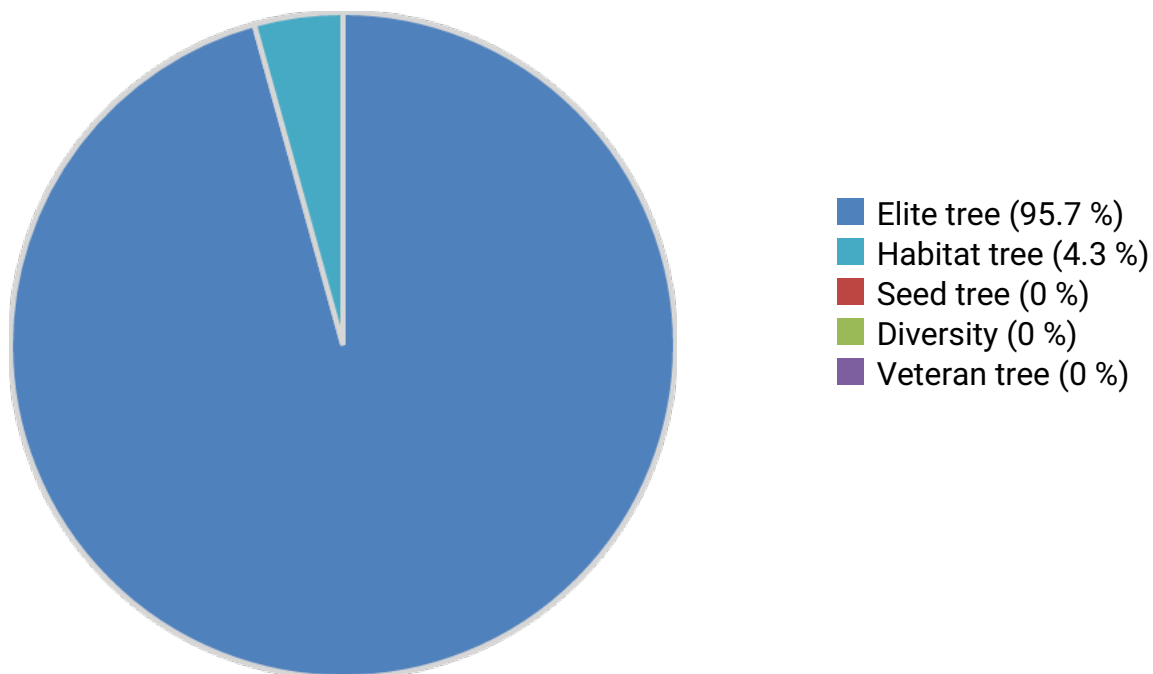
Spatial distribution of habitat trees



Reasons for removal



Reasons for retention

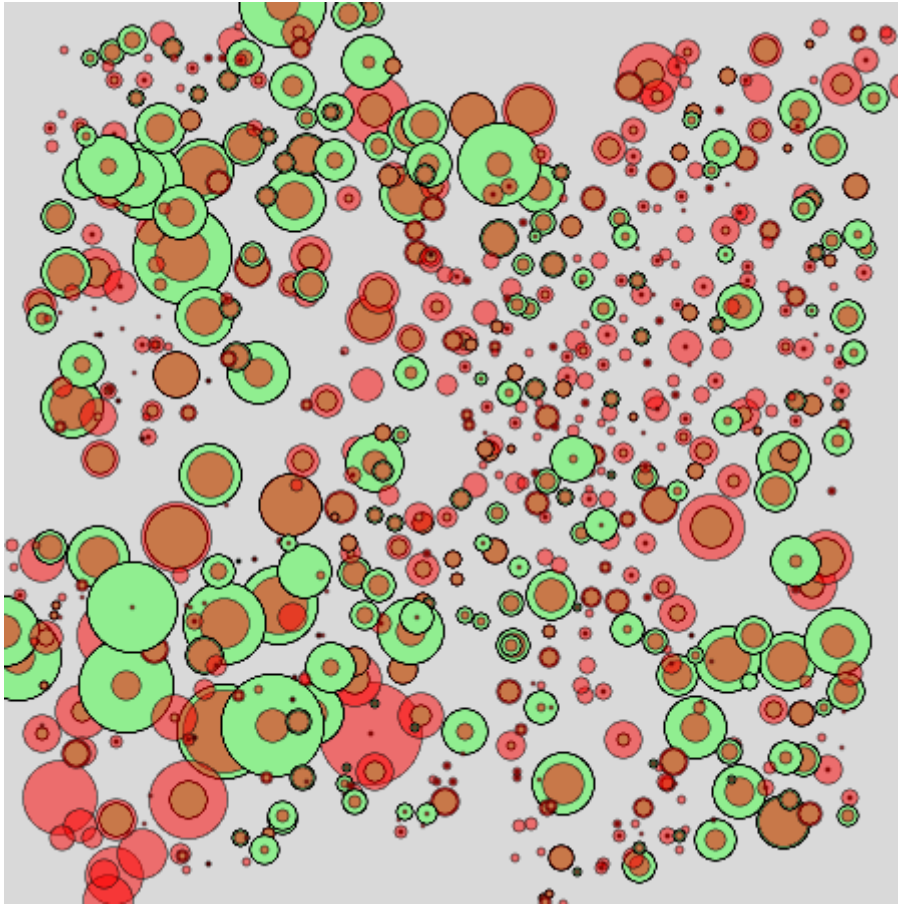


Distribution of tree microhabitats by code (N total)

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 (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (389) Fagus sylvatica	50.2	0.2	2.5	210	66	Competitor
common beech (106) Fagus sylvatica	40.5	0.13	1.5	127	30	Competitor
common beech (108) Fagus sylvatica	40	0.13	1.4	118	56	Competitor
common beech (47) Fagus sylvatica	38.7	0.12	1.4	119	0	Competitor
common beech (31) Fagus sylvatica	35.5	0.1	1	84	12	Target diameter
common beech (209) Fagus sylvatica	35.2	0.1	1	90	36	Competitor
common beech (624) Fagus sylvatica	35	0.1	1	80	36	Competitor
common beech (526) Fagus sylvatica	35	0.1	1.1	94	50	Competitor
common beech (181) Fagus sylvatica	34.6	0.09	1.1	95	0	Competitor
common beech (23) Fagus sylvatica	34.2	0.09	1.1	98	12	Competitor
common beech (58) Fagus sylvatica	33.6	0.09	1	89	0	Competitor
common beech (87) Fagus sylvatica	32.6	0.08	0.9	79	8	Competitor
common beech (639) Fagus sylvatica	31.6	0.08	0.6	54	44	Competitor
common beech (70) Fagus sylvatica	31	0.08	0.8	71	38	Competitor
common beech (549) Fagus sylvatica	30.8	0.08	0.8	67	21	Competitor
common beech (527) Fagus sylvatica	30.2	0.07	0.7	60	47	Competitor
common beech (82) Fagus sylvatica	30.2	0.07	0.8	65	0	Competitor
common beech (619) Fagus sylvatica	30.1	0.07	0.6	54	6	Competitor
common beech (400) Fagus sylvatica	30.1	0.07	0.7	59	108	Competitor
common beech (24) Fagus sylvatica	30	0.07	0.7	64	48	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (547) Fagus sylvatica	29.6	0.07	0.8	66	36	Competitor
common beech (35) Fagus sylvatica	29.6	0.07	0.6	54	6	Target diameter
common beech (283) Fagus sylvatica	29.4	0.07	0.7	57	36	Competitor
common beech (247) Fagus sylvatica	29.3	0.07	0.7	63	12	Competitor
common beech (83) Fagus sylvatica	29.2	0.07	0.8	67	39	Competitor
common beech (293) Fagus sylvatica	29	0.07	0.8	69	0	Competitor
common beech (42) Fagus sylvatica	28.8	0.07	0.7	61	8	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 (294) Fagus sylvatica	28.5	0.06	0.7	57	0	Competitor
common beech (102) Fagus sylvatica	28.5	0.06	0.6	52	6	Competitor
common beech (520) Fagus sylvatica	28.5	0.06	0.6	46	110	Competitor
common beech (144) Fagus sylvatica	28.1	0.06	0.7	58	18	Competitor
common beech (246) Fagus sylvatica	28	0.06	0.7	56	39	Competitor
common beech (103) Fagus sylvatica	28	0.06	0.6	52	12	Competitor
common beech (623) Fagus sylvatica	27.7	0.06	0.6	54	29	Competitor
common beech (451) Fagus sylvatica	27.4	0.06	0.6	50	21	Competitor
common beech (539) Fagus sylvatica	27.2	0.06	0.7	59	12	Competitor
common beech (74) Fagus sylvatica	27	0.06	0.5	45	6	Competitor
common beech (434) Fagus sylvatica	26.9	0.06	0.7	58	6	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (446) Fagus sylvatica	26.9	0.06	0.6	53	0	Competitor
common beech (64) Fagus sylvatica	26.6	0.06	0.6	54	6	Sanitary
common beech (646) Fagus sylvatica	26.4	0.06	0.6	47	46	Competitor
common beech (386) Fagus sylvatica	26.2	0.05	0.6	48	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 (521) Fagus sylvatica	25.1	0.05	0.5	40	12	Competitor
common beech (59) Fagus sylvatica	25	0.05	0.5	45	36	Competitor
common beech (634) Fagus sylvatica	24.8	0.05	0.6	50	14	Competitor
common beech (467) Fagus sylvatica	24.7	0.05	0.6	53	12	Competitor
common beech (88) Fagus sylvatica	24.5	0.05	0.5	43	0	Competitor
common beech (437) Fagus sylvatica	24.1	0.05	0.5	44	18	Competitor
common beech (13) Fagus sylvatica	24	0.05	0.4	35	3	Competitor
common beech (445) Fagus sylvatica	23.9	0.05	0.5	40	36	Competitor
common beech (297) Fagus sylvatica	23.9	0.05	0.5	38	0	Competitor
common beech (268) Fagus sylvatica	23.8	0.04	0.4	35	0	Competitor
common beech (458) Fagus sylvatica	23.8	0.04	0.5	43	12	Competitor
common beech (129) Fagus sylvatica	23.5	0.04	0.5	40	0	Competitor
common beech (191) Fagus sylvatica	23.3	0.04	0.5	41	30	Competitor
common beech (473) Fagus sylvatica	23.3	0.04	0.4	37	14	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (44) Fagus sylvatica	23.2	0.04	0.4	38	0	Competitor
common beech (45) Fagus sylvatica	23.2	0.04	0.4	35	16	Competitor
common beech (266) Fagus sylvatica	23	0.04	0.4	37	0	Competitor
common beech (374) Fagus sylvatica	22.6	0.04	0.4	33	12	Competitor
common beech (448) Fagus sylvatica	22.2	0.04	0.4	34	28	Competitor
common beech (405) Fagus sylvatica	22.2	0.04	0.4	30	6	Competitor
common beech (452) Fagus sylvatica	21.6	0.04	0.4	30	0	Competitor
common beech (285) Fagus sylvatica	21.5	0.04	0.3	29	0	Competitor
common beech (130) Fagus sylvatica	21.3	0.04	0.3	30	42	Competitor
common beech (381) Fagus sylvatica	21.2	0.04	0.3	26	20	Competitor
common beech (369) Fagus sylvatica	21	0.04	0.4	30	0	Competitor
common beech (474) Fagus sylvatica	21	0.04	0.4	31	18	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 (305) Fagus sylvatica	19.7	0.03	0.3	24	0	Competitor
common beech (453) Fagus sylvatica	19.4	0.03	0.3	29	0	Competitor
common beech (80) Fagus sylvatica	19.4	0.03	0.3	24	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
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 (642) Fagus sylvatica	19.1	0.03	0.3	23	50	Competitor
common beech (645) Fagus sylvatica	18.9	0.03	0.3	23	36	Competitor
common beech (131) Fagus sylvatica	18.8	0.03	0.3	23	0	Competitor
common beech (146) Fagus sylvatica	18.5	0.03	0.2	19	24	Competitor
common beech (466) Fagus sylvatica	17.6	0.02	0.3	24	3	Competitor
common beech (72) Fagus sylvatica	17	0.02	0.2	19	0	Competitor
common beech (475) Fagus sylvatica	17	0.02	0.2	16	3	Competitor
common beech (402) Fagus sylvatica	16.9	0.02	0.2	18	0	Competitor
common beech (465) Fagus sylvatica	16.9	0.02	0.3	21	0	Competitor
common beech (454) Fagus sylvatica	16.8	0.02	0.2	20	202	Competitor
common beech (470) Fagus sylvatica	16.2	0.02	0.2	18	0	Competitor
common beech (587) Fagus sylvatica	16.1	0.02	0.2	13	22	Competitor
common beech (427) Fagus sylvatica	16	0.02	0.2	18	0	Competitor
common beech (432) Fagus sylvatica	15.9	0.02	0.1	12	0	Competitor
common beech (457) Fagus sylvatica	15.9	0.02	0.2	20	12	Competitor
common beech (636) Fagus sylvatica	15.8	0.02	0.2	13	0	Competitor
common beech (433) Fagus sylvatica	15.6	0.02	0.2	18	0	Competitor
common beech (401) Fagus sylvatica	14.4	0.02	0.1	10	6	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (464) Fagus sylvatica	12.1	0.01	0.1	8	0	Competitor
common beech (447) Fagus sylvatica	12	0.01	0.1	6	0	Competitor

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	Elite tree
common beech (107) Fagus sylvatica	59	0.27	2.9	251	63	Habitat tree
common beech (459) Fagus sylvatica	57.7	0.26	3.6	306	82	Elite tree
common beech (406) Fagus sylvatica	55.7	0.24	3	251	135	Elite tree
common beech (279) Fagus sylvatica	50.5	0.2	2.5	216	221	Elite tree
common beech (540) Fagus sylvatica	49.8	0.2	2.3	198	118	Elite tree
common beech (629) Fagus sylvatica	46.8	0.17	2	166	136	Elite tree
common beech (299) Fagus sylvatica	46.2	0.17	2.1	180	105	Elite tree
sycamore maple (89) Acer pseudoplatanus	44	0.15	1.4	122	52	Elite tree
common beech (255) Fagus sylvatica	42.6	0.14	1.6	135	90	Elite tree
common beech (46) Fagus sylvatica	41.4	0.14	1.5	126	54	Elite tree
sycamore maple (371) Acer pseudoplatanus	40.6	0.13	1.4	120	52	Elite tree
common beech (71) Fagus sylvatica	40.5	0.13	1.5	128	6	Elite tree
common beech (376) Fagus sylvatica	39.8	0.12	1.3	108	64	Elite tree
common beech (640) Fagus sylvatica	39.6	0.12	1.2	100	71	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
common beech (192) Fagus sylvatica	37.8	0.11	1.3	114	36	Elite tree
common beech (145) Fagus sylvatica	35.8	0.1	1	82	60	Elite tree
sycamore maple (43) Acer pseudoplatanus	35.2	0.1	1	87	88	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (34) Fagus sylvatica	32.1	0.08	0.8	68	14	Elite tree
common beech (284) Fagus sylvatica	31	0.08	0.7	62	12	Elite tree
sycamore maple (25) Acer pseudoplatanus	27.9	0.06	0.6	55	52	Elite tree