

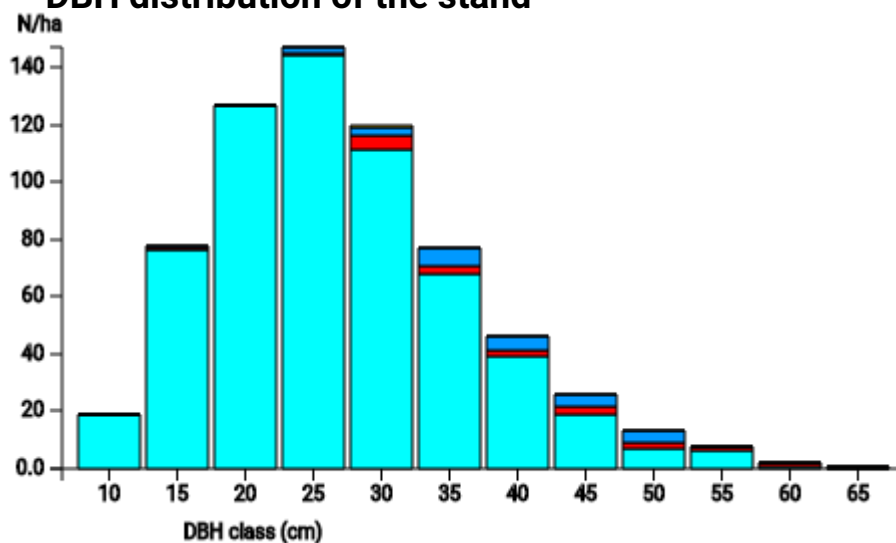
26/02/2021 Gruppo B

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 %

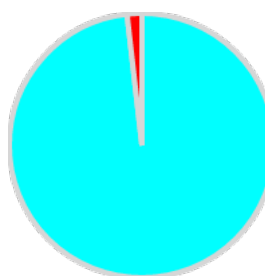
DBH distribution of the stand**Initial stand (details by tree species)**

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

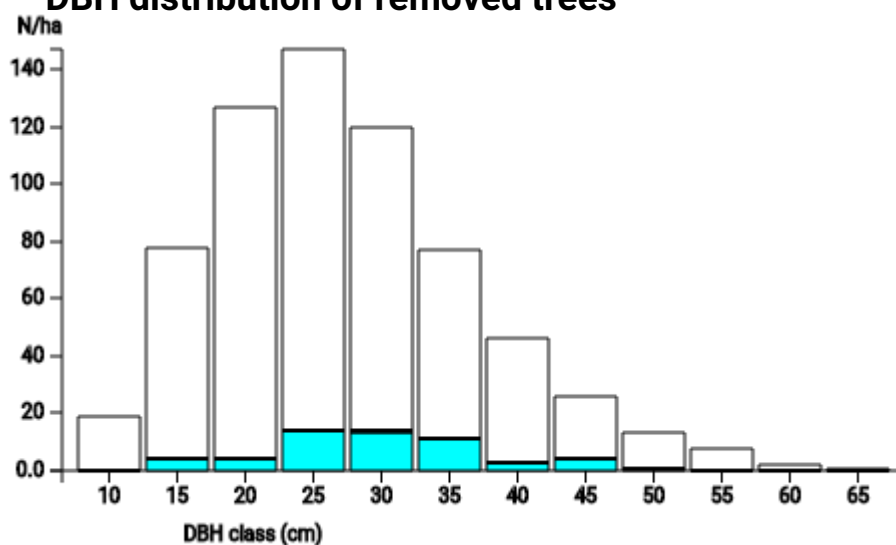
Removed treesVolume: 52.8 m³Basal area: 4.8 m²

Economic value: 4497 €

Habitat value: 1996 pts.

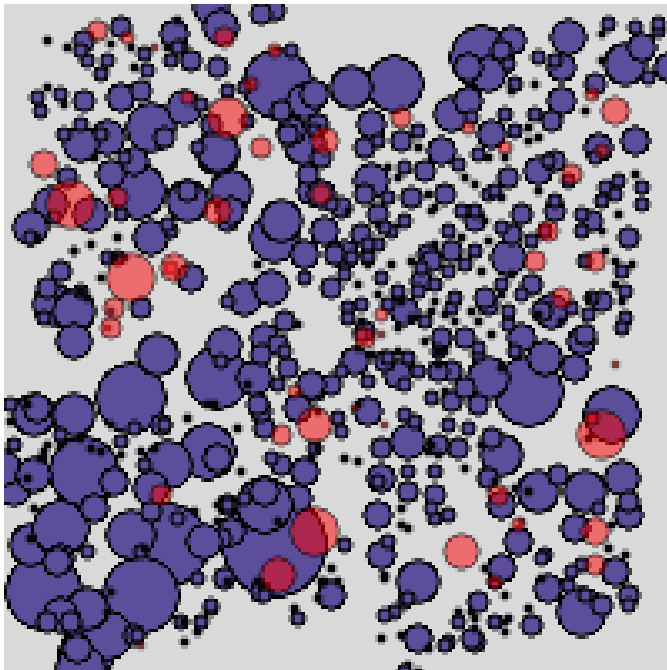
Removed trees (N in %)

common beech: 98.2 %
 silver fir: 1.8 %
 sycamore maple: 0 %
 goat willow: 0 %

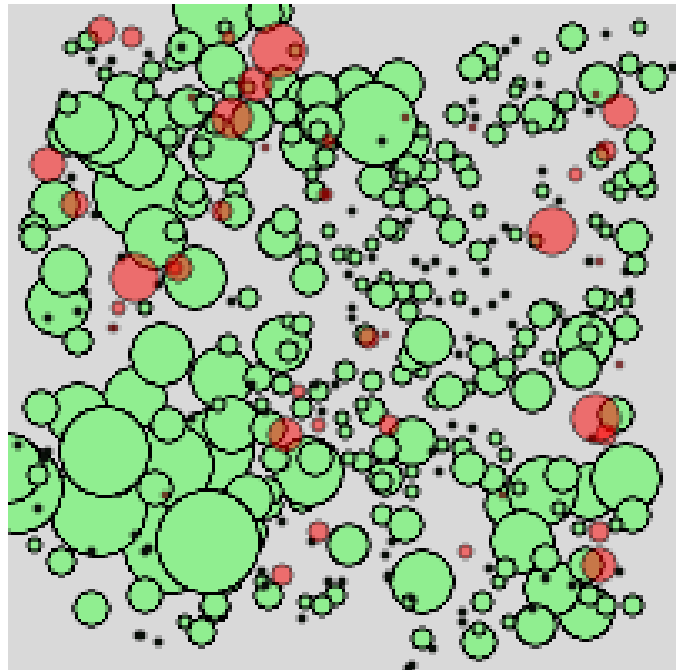
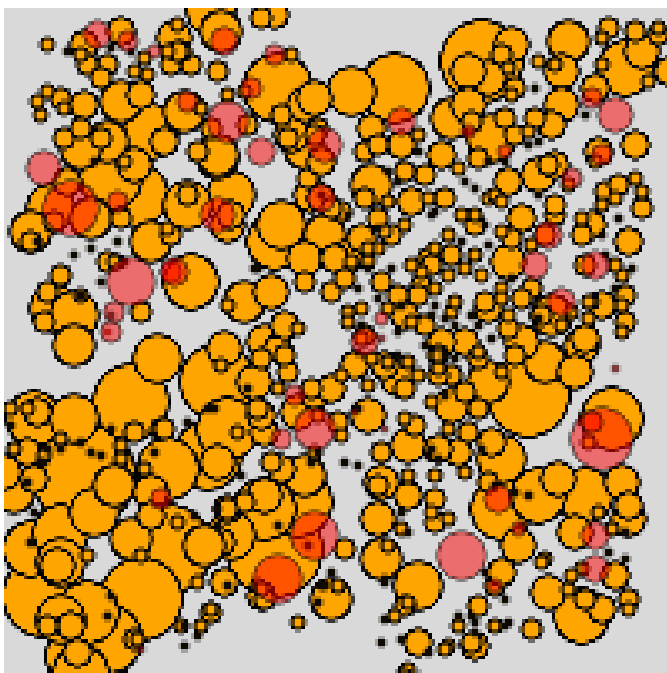
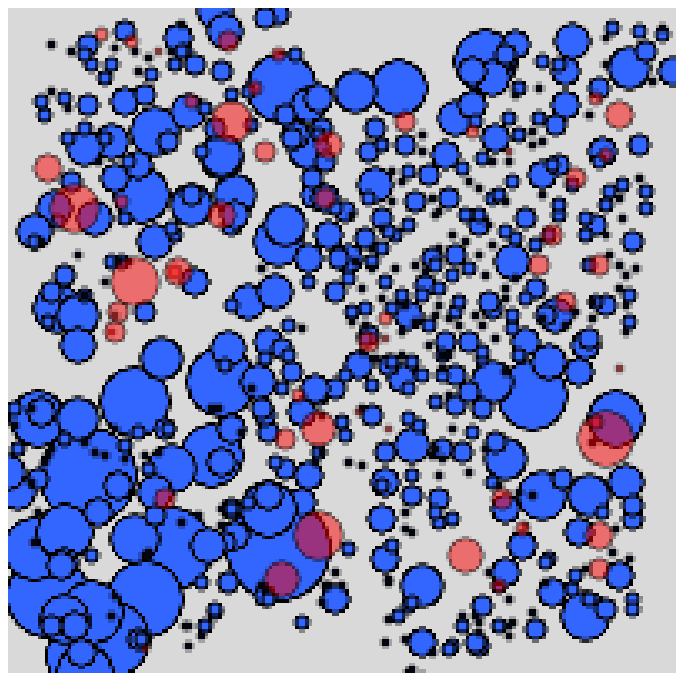
DBH distribution of removed trees**Removed trees (details by tree species)**

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	54	4.7	51.9	4422	1984	134
goat willow	0	0	0	0	0	0
silver fir	1	0.1	0.9	75	12	1
sycamore maple	0	0	0	0	0	0
Total	55	4.8	52.8	4497	1996	135

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

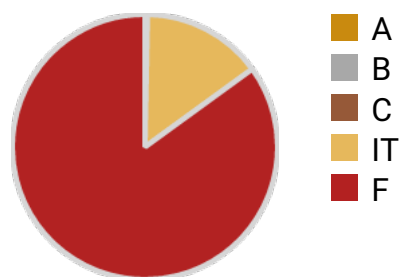
Total value of removed trees: 4497 €

Percentage of total stand value: 9.6 %

Stand value after harvest: 42289 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	4422	85
silver fir	75	80
sycamore maple	0	0
goat willow	0	0
Total	4497	85

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

Quality class	m ³	%
A	0	0
B	0	0
C	0.2	0.3
Industrial Timber	7.8	14.7
Fuelwood	44.8	85

Habitat values

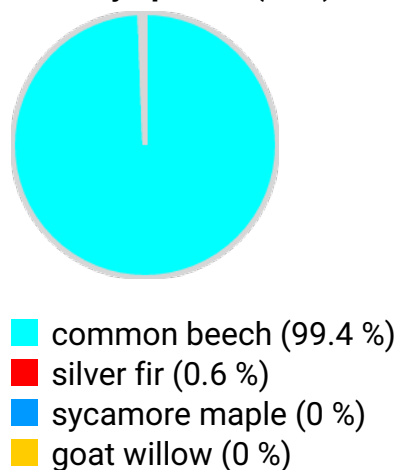
Total habitat value of removed trees: 1996 pts.

Percentage of total stand value: 9.2 %

Stand value after harvest: 19745 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m ³	Microhabitats [N]
common beech	1984	38.2	134
silver fir	12	12.8	1
sycamore maple	0	0	0
goat willow	0	0	0
Total	1996	37.8	135

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

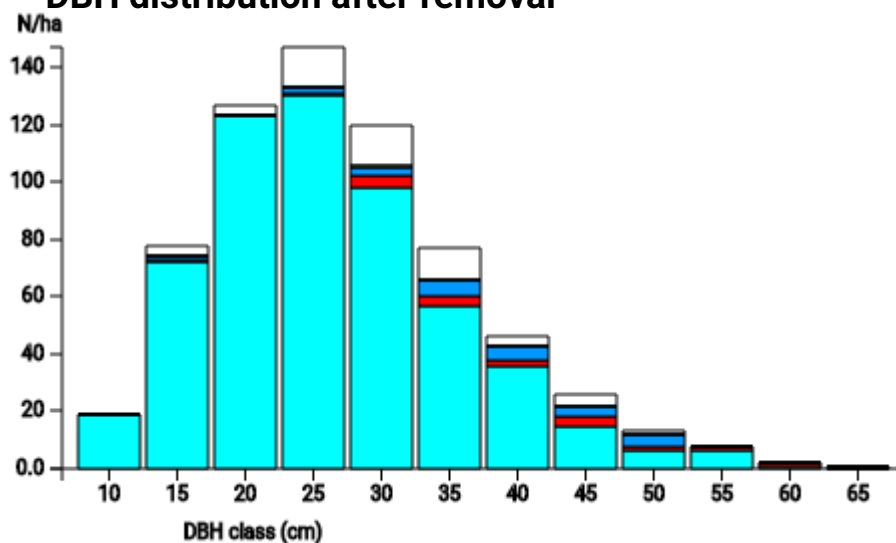
Remaining standVolume: 505 m³Basal area: 46.1 m²

Economic value: 42289 €

Habitat value: 19745 pts.

Remaining trees by volume (m³ in %)

common beech: 85.6 %
 silver fir: 8.3 %
 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	563	39.6	432.1	36825	17824	1149
goat willow	1	0.1	0.8	70	24	3
silver fir	20	3.2	42.2	2985	233	24
sycamore maple	25	3.2	29.9	2409	1664	99
Total	609	46.1	505	42289	19745	1275

Retention treesVolume: 47.6 m³

Elite trees: 26

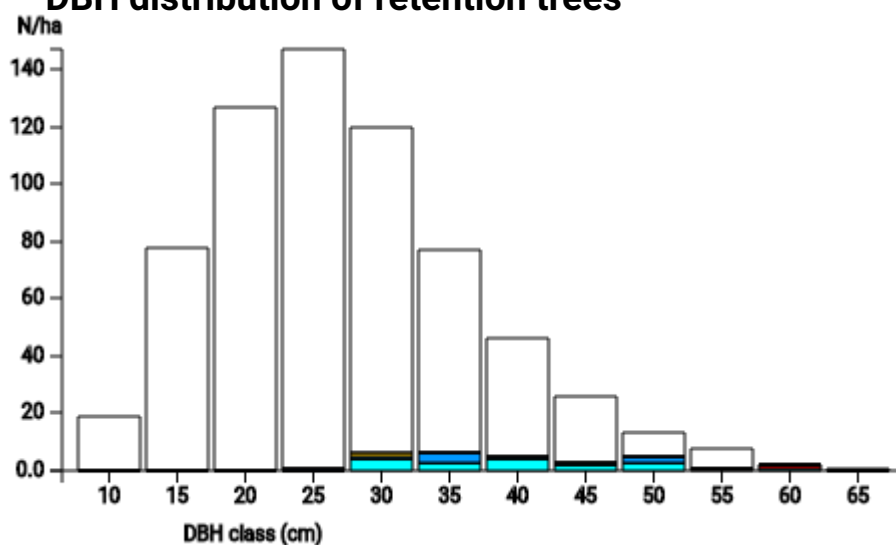
Habitat trees: 1

Economic value: 4063 €

Habitat value: 1873 pts.

Retention trees by volume (m³ in %)

common beech: 65.8 %
 sycamore maple: 22.6 %
 silver fir: 9.8 %
 goat willow: 1.8 %

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

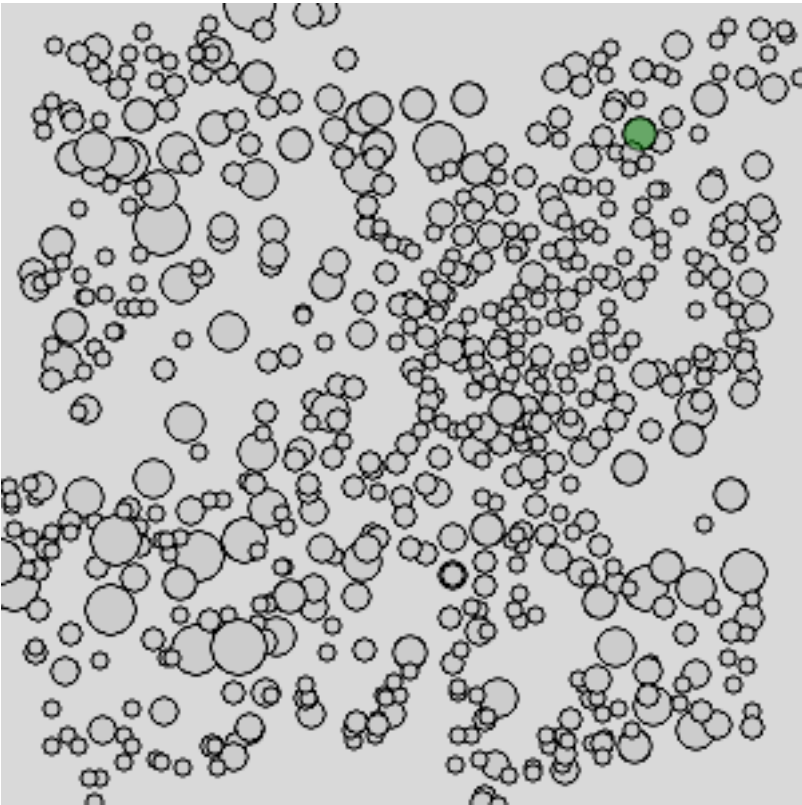
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	18	2.7	31.3	2669	1244	77
goat willow	1	0.1	0.8	70	24	3
silver fir	1	0.3	4.7	411	6	1
sycamore maple	9	1.2	10.7	913	599	35
Total	29	4.3	47.6	4063	1873	116

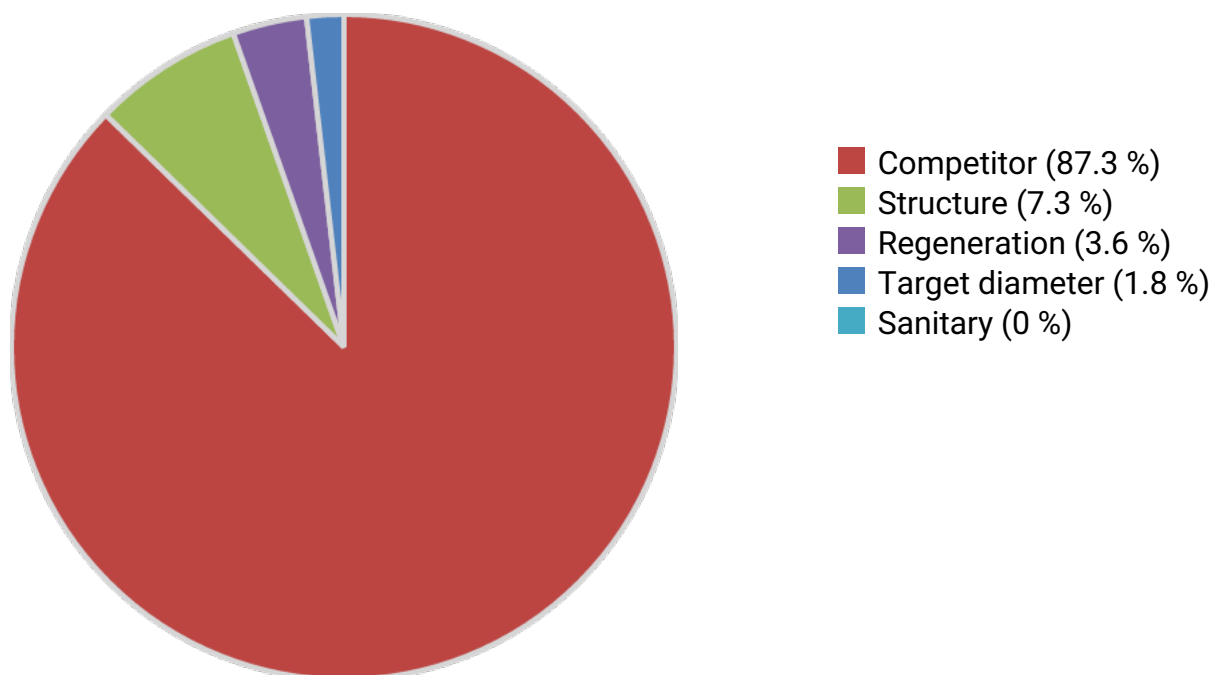
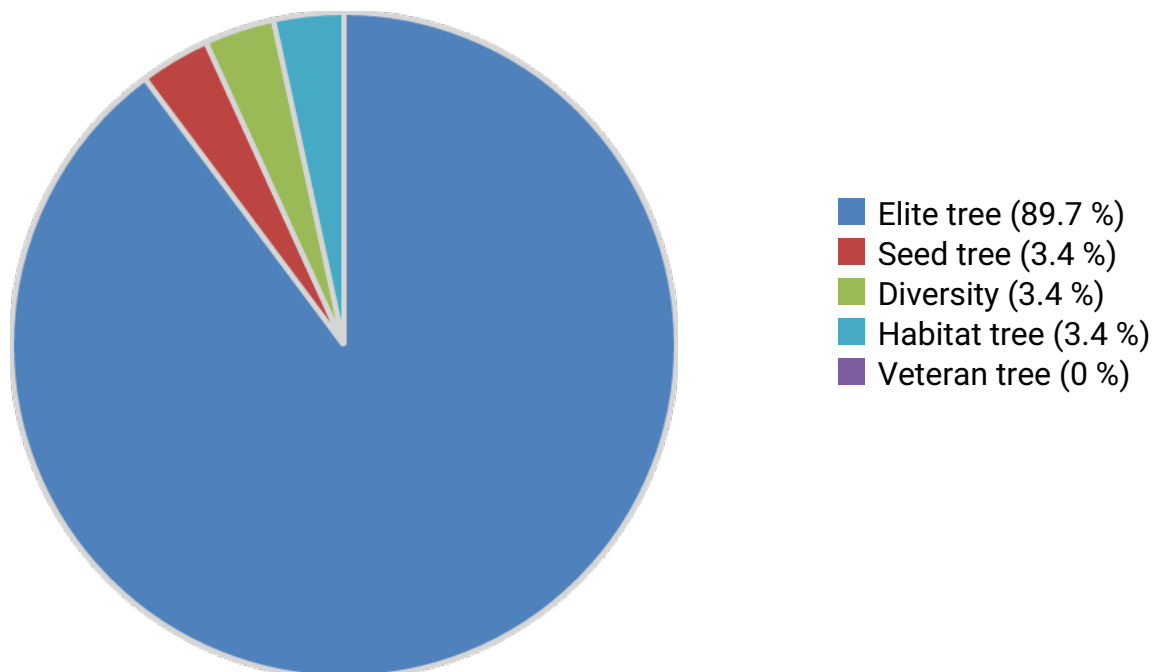
Number of habitat trees	[N]	1
Habitat value	pts.	84
	[% of total]	0.4
Economic value	[€]	67
	[% of total]	0.1
Number of microhabitats	[N]	5
	[% of total]	0.4

Habitat tree distribution
by species (N in %)

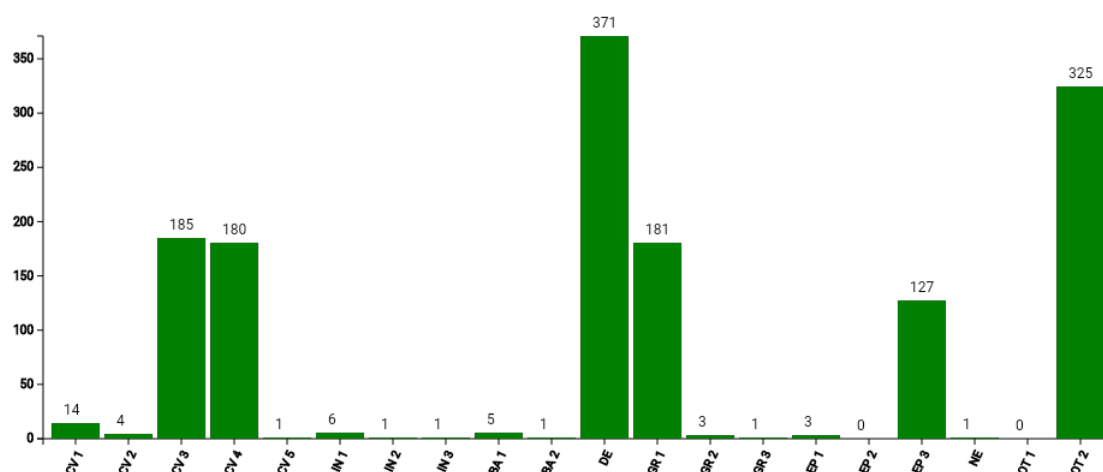


Spatial distribution of habitat trees

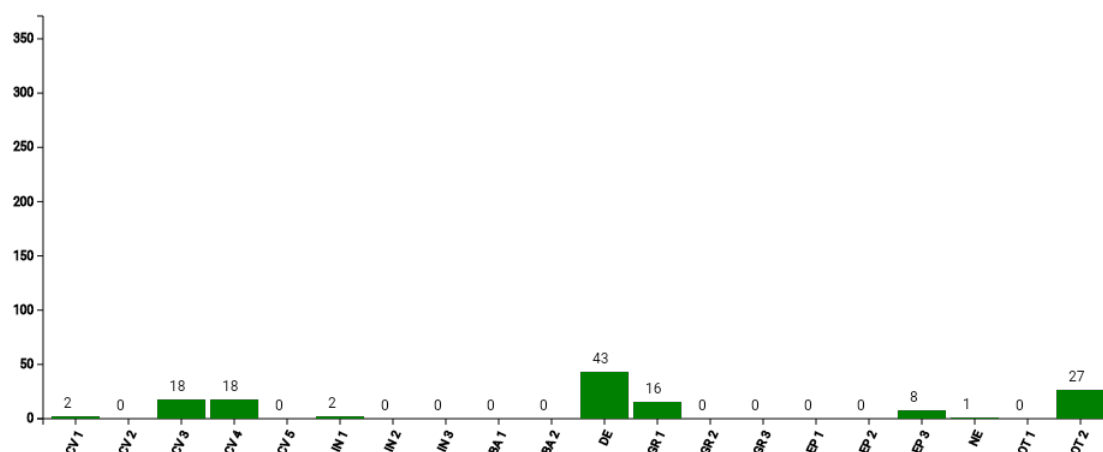


Reasons for removal**Reasons for retention**

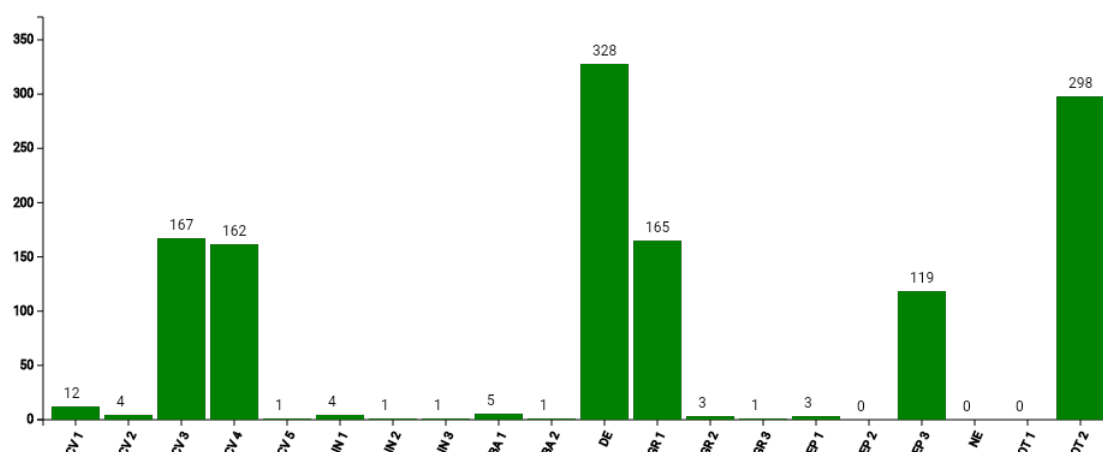
Distribution of tree microhabitats by code (N total)



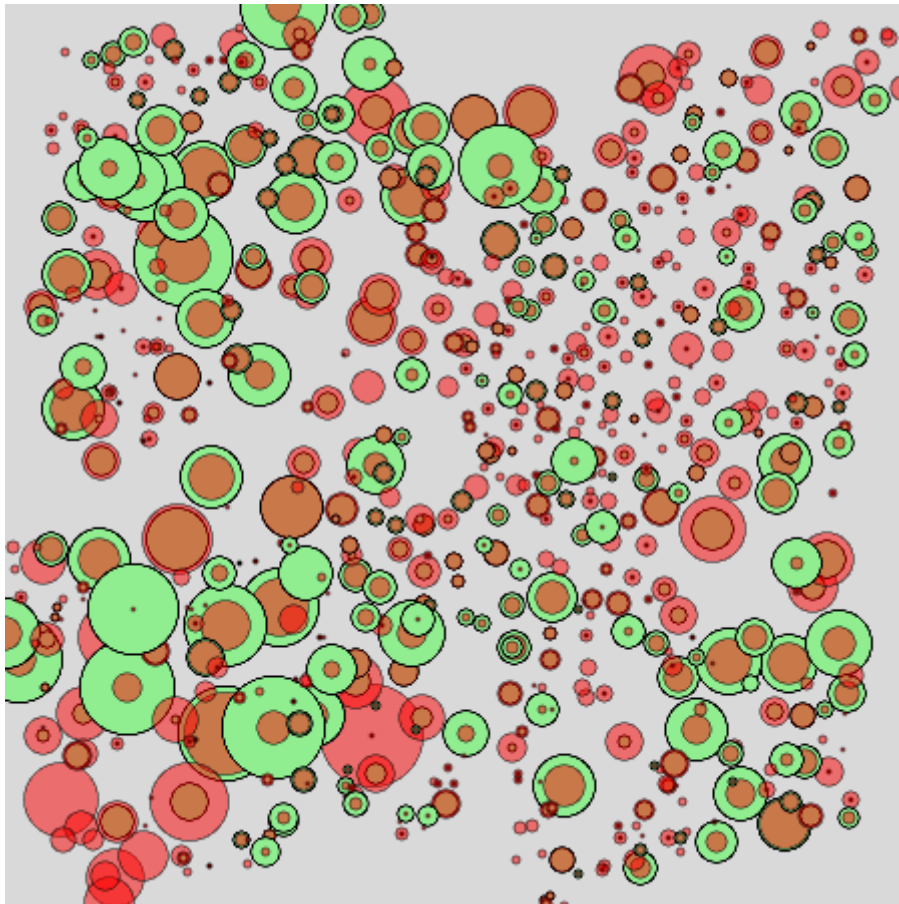
Removed tree microhabitats by code (N removed)



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
common beech (514) Fagus sylvatica	50.2	0.2	2.4	205	51	Competitor
common beech (320) Fagus sylvatica	49.7	0.19	2.2	190	66	Competitor
common beech (357) Fagus sylvatica	46.2	0.17	2.2	189	44	Competitor
common beech (299) Fagus sylvatica	46.2	0.17	2.1	180	105	Competitor
common beech (391) Fagus sylvatica	45.2	0.16	1.7	144	44	Competitor
common beech (596) Fagus sylvatica	44	0.15	1.7	143	30	Regeneration
common beech (350) Fagus sylvatica	43.8	0.15	1.6	135	36	Competitor
common beech (235) Fagus sylvatica	41.1	0.13	1.8	152	96	Competitor
common beech (22) Fagus sylvatica	38.2	0.12	1.2	105	83	Competitor
common beech (176) Fagus sylvatica	38	0.11	1.4	121	36	Competitor
common beech (334) Fagus sylvatica	37.8	0.11	1.2	100	72	Structure
common beech (257) Fagus sylvatica	37.2	0.11	1.1	97	39	Competitor
common beech (199) Fagus sylvatica	36.4	0.1	1	89	48	Competitor
common beech (525) Fagus sylvatica	36.4	0.1	1.1	96	72	Target diameter
common beech (524) Fagus sylvatica	36.3	0.1	1.2	100	53	Competitor
common beech (54) Fagus sylvatica	36	0.1	1.1	93	102	Structure
common beech (31) Fagus sylvatica	35.5	0.1	1	84	12	Competitor
common beech (574) Fagus sylvatica	35	0.1	1.1	90	8	Competitor
common beech (275) Fagus sylvatica	35	0.1	1.2	101	62	Competitor
common beech (149) Fagus sylvatica	34.8	0.1	1	85	21	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (38) Fagus sylvatica	34.2	0.09	1	84	0	Competitor
common beech (178) Fagus sylvatica	33.8	0.09	1	89	26	Competitor
common beech (226) Fagus sylvatica	33.6	0.09	1.1	93	18	Competitor
common beech (58) Fagus sylvatica	33.6	0.09	1	89	0	Competitor
common beech (286) Fagus sylvatica	33.2	0.09	0.8	70	63	Competitor
common beech (232) Fagus sylvatica	33.2	0.09	0.9	78	38	Competitor
common beech (40) Fagus sylvatica	32.8	0.08	1	83	36	Competitor
common beech (304) Fagus sylvatica	32.6	0.08	0.9	79	27	Competitor
common beech (366) Fagus sylvatica	32	0.08	0.9	77	78	Competitor
common beech (265) Fagus sylvatica	31	0.08	0.8	65	42	Competitor
silver fir (436) Abies alba	30.9	0.08	0.9	75	12	Competitor
common beech (228) Fagus sylvatica	30.9	0.08	0.8	68	84	Competitor
common beech (24) Fagus sylvatica	30	0.07	0.7	64	48	Competitor
common beech (301) Fagus sylvatica	29.4	0.07	0.8	71	12	Competitor
common beech (219) Fagus sylvatica	29.3	0.07	0.6	55	116	Competitor
common beech (247) Fagus sylvatica	29.3	0.07	0.7	63	12	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 (362) Fagus sylvatica	28.7	0.07	0.7	56	36	Competitor
common beech (276) Fagus sylvatica	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 (520) Fagus sylvatica	28.5	0.06	0.6	46	110	Competitor
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	Regeneration
common beech (189) Fagus sylvatica	26	0.05	0.5	46	6	Competitor
common beech (560) Fagus sylvatica	25.7	0.05	0.6	47	0	Competitor
common beech (81) Fagus sylvatica	25.2	0.05	0.5	44	6	Competitor
common beech (263) Fagus sylvatica	25	0.05	0.5	39	6	Structure
common beech (516) Fagus sylvatica	23.1	0.04	0.4	35	8	Structure
common beech (303) Fagus sylvatica	21.4	0.04	0.4	33	0	Competitor
common beech (462) Fagus sylvatica	21	0.04	0.3	29	0	Competitor
common beech (197) Fagus sylvatica	20.8	0.03	0.3	30	15	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 (302) Fagus sylvatica	17.5	0.02	0.3	21	12	Competitor
common beech (561) Fagus sylvatica	17.2	0.02	0.2	21	3	Competitor

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
silver fir (390) Abies alba	63.2	0.31	4.7	411	6	Seed tree
common beech (443) Fagus sylvatica	60.7	0.29	3.8	326	212	Elite tree
common beech (218) Fagus sylvatica	55	0.24	3.2	271	76	Elite tree
common beech (150) Fagus sylvatica	53	0.22	2.4	207	104	Elite 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
common beech (515) Fagus sylvatica	50.1	0.2	2.5	215	84	Elite tree
sycamore maple (292) Acer pseudoplatanus	50	0.2	1.4	121	0	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	Elite tree
common beech (242) Fagus sylvatica	45.5	0.16	2	172	51	Elite tree
sycamore maple (89) Acer pseudoplatanus	44	0.15	1.4	122	52	Elite tree
common beech (230) Fagus sylvatica	43.1	0.15	1.6	139	30	Elite tree
common beech (255) Fagus sylvatica	42.6	0.14	1.6	135	90	Elite tree
common beech (71) Fagus sylvatica	40.5	0.13	1.5	128	6	Elite tree
common beech (529) Fagus sylvatica	40.5	0.13	1.4	117	33	Elite tree
common beech (643) Fagus sylvatica	38.7	0.12	1.1	96	55	Elite tree
sycamore maple (361) Acer pseudoplatanus	37.6	0.11	1.2	98	40	Elite tree
sycamore maple (576) Acer pseudoplatanus	36.8	0.11	1.4	120	52	Elite tree
common beech (264) Fagus sylvatica	36.3	0.1	1.1	92	0	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (177) Fagus sylvatica	35.7	0.1	1.1	94	42	Elite tree
sycamore maple (43) Acer pseudoplatanus	35.2	0.1	1	87	88	Elite tree
common beech (137) Fagus sylvatica	34.2	0.09	1	90	38	Elite tree
common beech (200) Fagus sylvatica	32.9	0.09	1	89	6	Elite tree
common beech (34) Fagus sylvatica	32.1	0.08	0.8	68	14	Elite tree
goat willow (300) Salix caprea	32	0.08	0.8	70	24	Diversity
common beech (67) Fagus sylvatica	30.6	0.07	0.8	67	84	Habitat tree
sycamore maple (227) Acer pseudoplatanus	30.4	0.07	0.8	68	93	Elite tree
sycamore maple (25) Acer pseudoplatanus	27.9	0.06	0.6	55	52	Elite tree