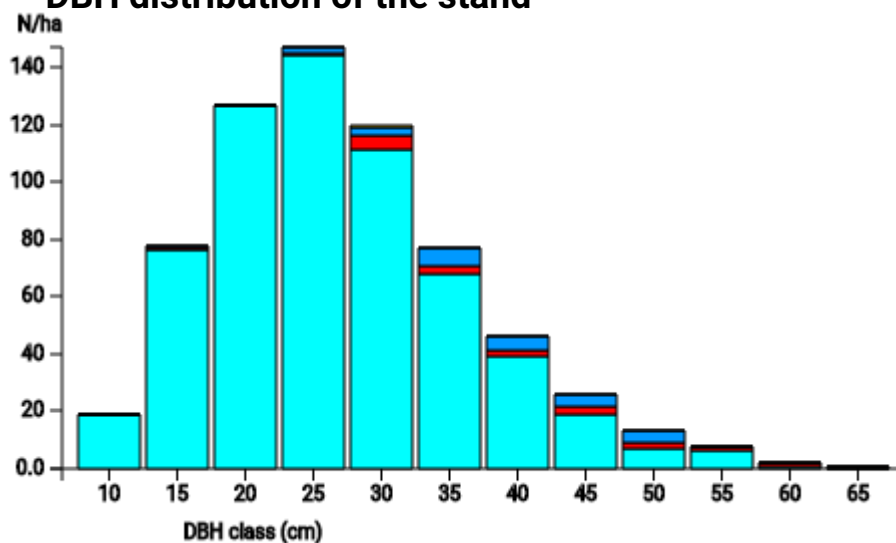


Site conditions

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 %

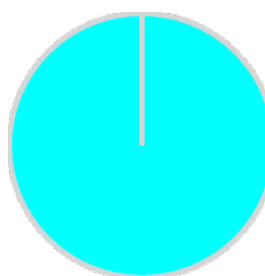
DBH distribution of the stand**Initial stand (details by tree species)**

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: 17 m³Basal area: 1.6 m²

Economic value: 1443 €

Habitat value: 802 pts.

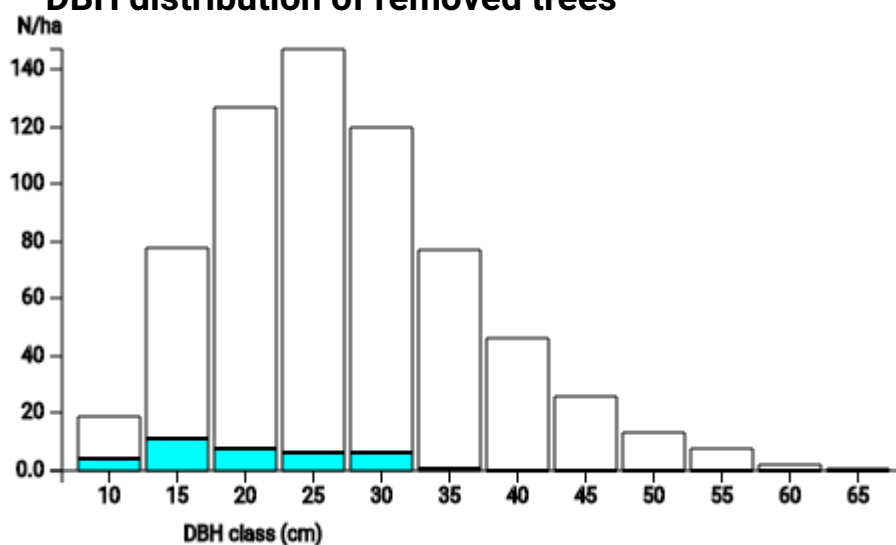
Removed trees (N in %)

common beech: 100 %

silver fir: 0 %

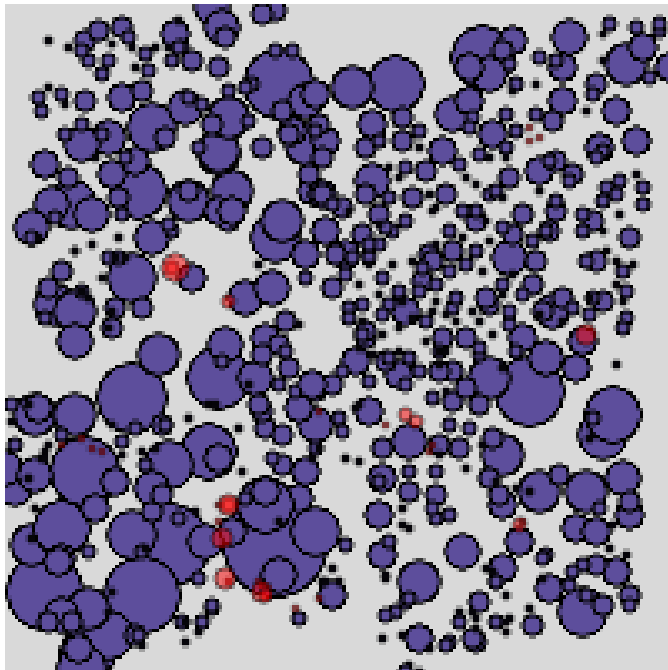
sycamore maple: 0 %

goat willow: 0 %

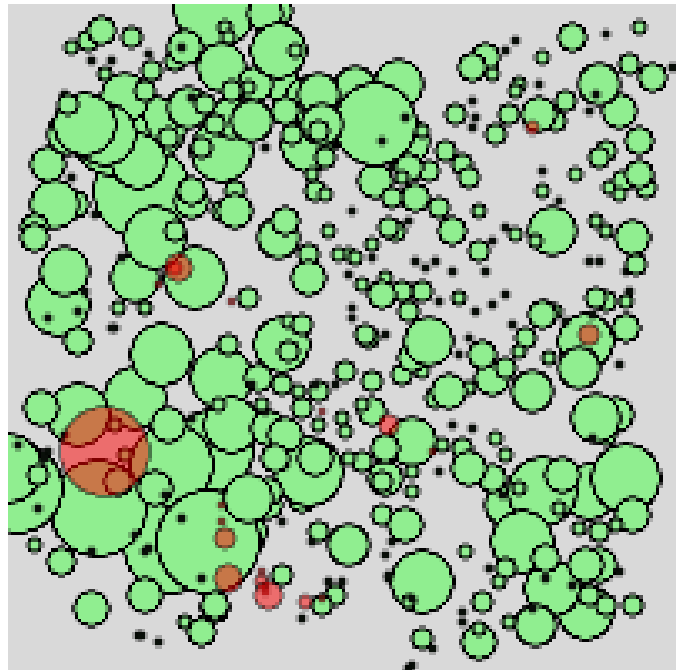
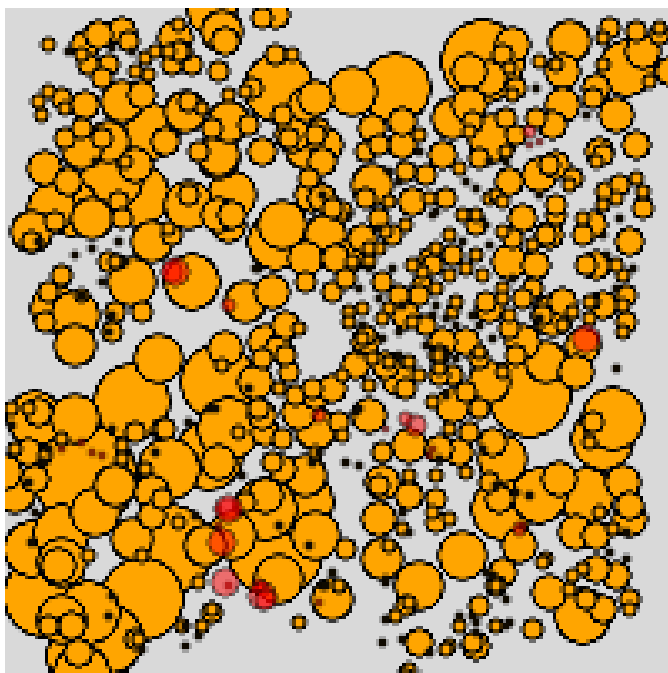
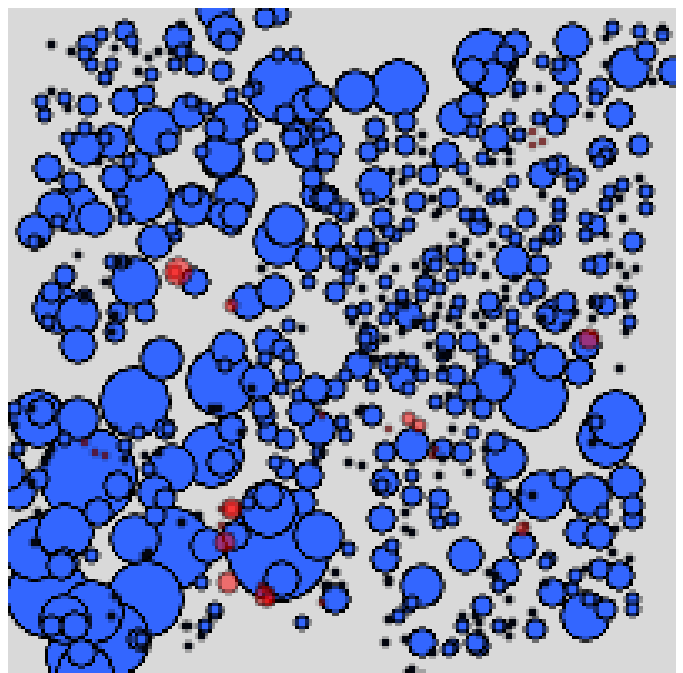
DBH distribution of removed trees**Removed trees (details by tree species)**

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	36	1.6	17	1443	802	48
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	36	1.6	17	1443	802	48

Economic value [EUR]



Habitat value

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

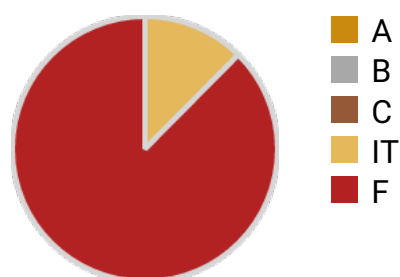
Red circles (removed trees); circle size according to numerical values (e.g. large circles mean high values); trees with very low values (e.g. habitat value "0") are not visible.

Economic values

Total value of removed trees: 1443 €
 Percentage of total stand value: 3.1 %
 Stand value after harvest: 45343 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	1443	85
silver fir	0	0
sycamore maple	0	0
goat willow	0	0
Total	1443	85

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

Quality class	m ³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	2.1	12.4
Fuelwood	14.9	87.6

Habitat values

Total habitat value of removed trees: 802 pts.
 Percentage of total stand value: 3.7 %
 Stand value after harvest: 20939 pts.

Habitat value by tree species [pts.]

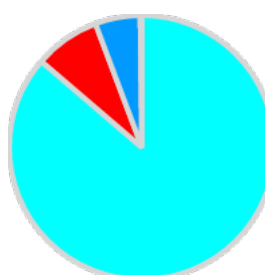
Tree species	Total	Per m ³	Microhabitats [N]
common beech	802	47.3	48
silver fir	0	0	0
sycamore maple	0	0	0
goat willow	0	0	0
Total	802	47.3	48

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

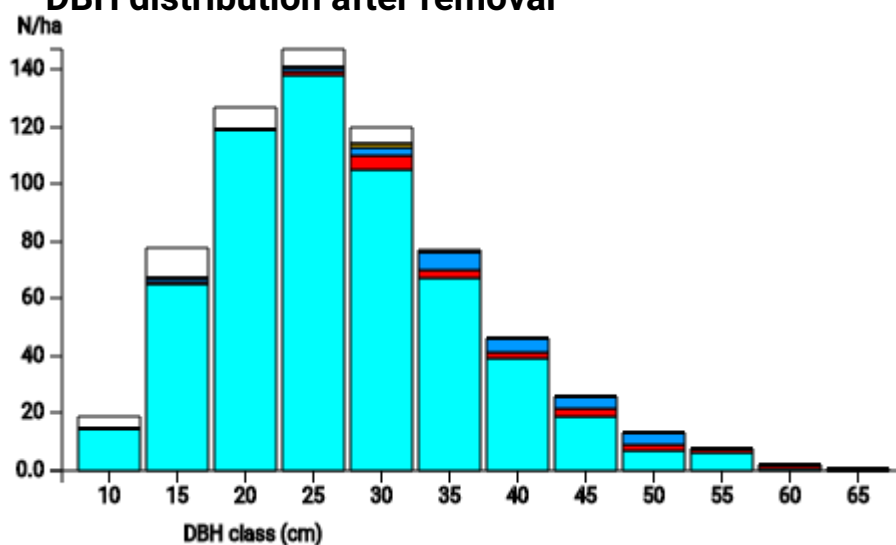
Remaining standVolume: 540.9 m³Basal area: 49.2 m²

Economic value: 45343 €

Habitat value: 20939 pts.

Remaining trees by volume (m³ in %)

- common beech: 86.3 %
- silver fir: 8 %
- sycamore maple: 5.5 %
- 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	581	42.6	467	39804	19006	1235
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	628	49.2	540.9	45343	20939	1362

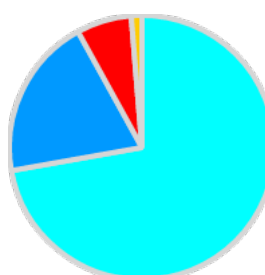
Retention treesVolume: 64.1 m³

Elite trees: 0

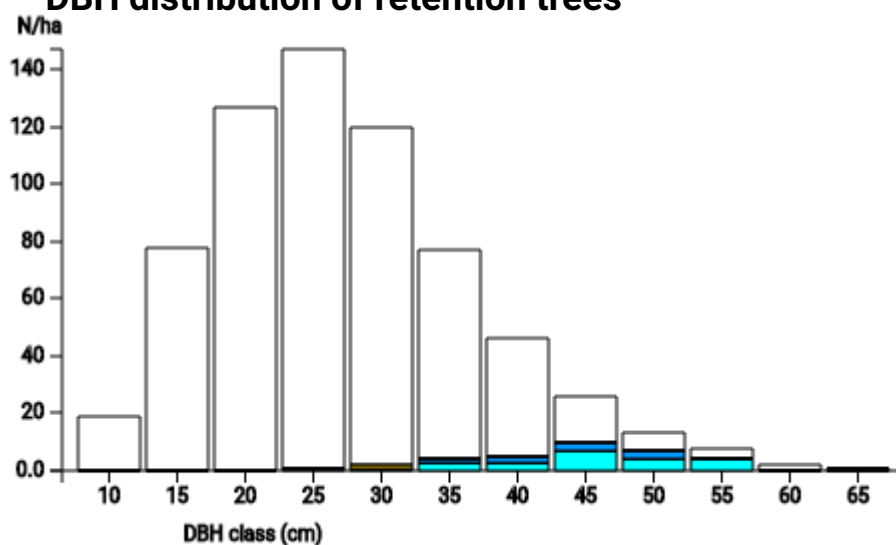
Habitat trees: 30

Economic value: 5324 €

Habitat value: 2878 pts.

Retention trees by volume (m³ in %)

- common beech: 72.2 %
- sycamore maple: 19.8 %
- silver fir: 6.7 %
- goat willow: 1.3 %

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

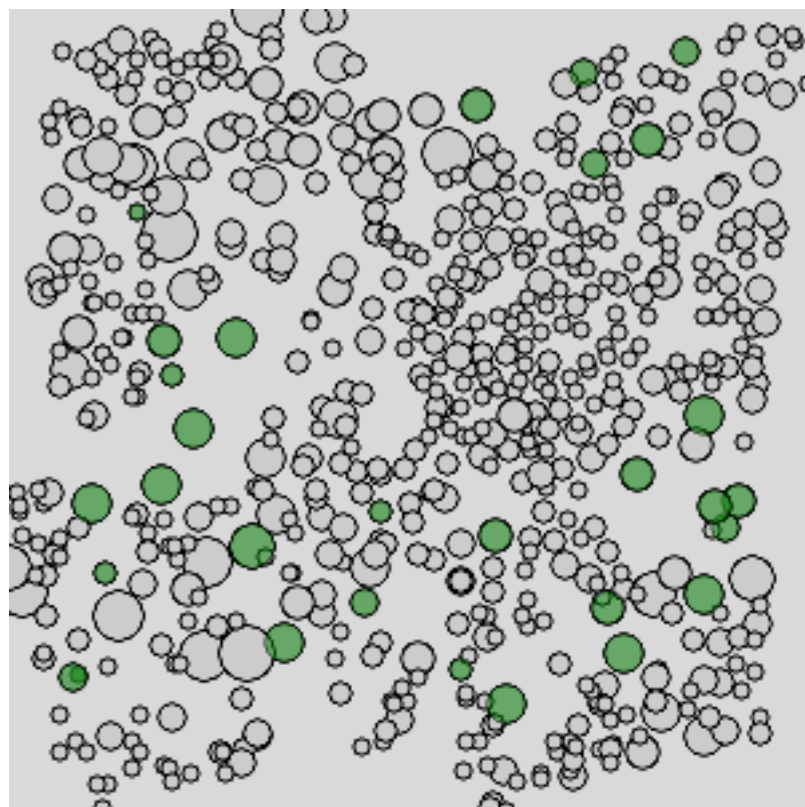
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	23	4	46.2	3903	2246	144
goat willow	1	0.1	0.8	70	24	3
silver fir	1	0.3	4.3	277	34	6
sycamore maple	9	1.5	12.7	1074	574	39
Total	34	6	64.1	5324	2878	192

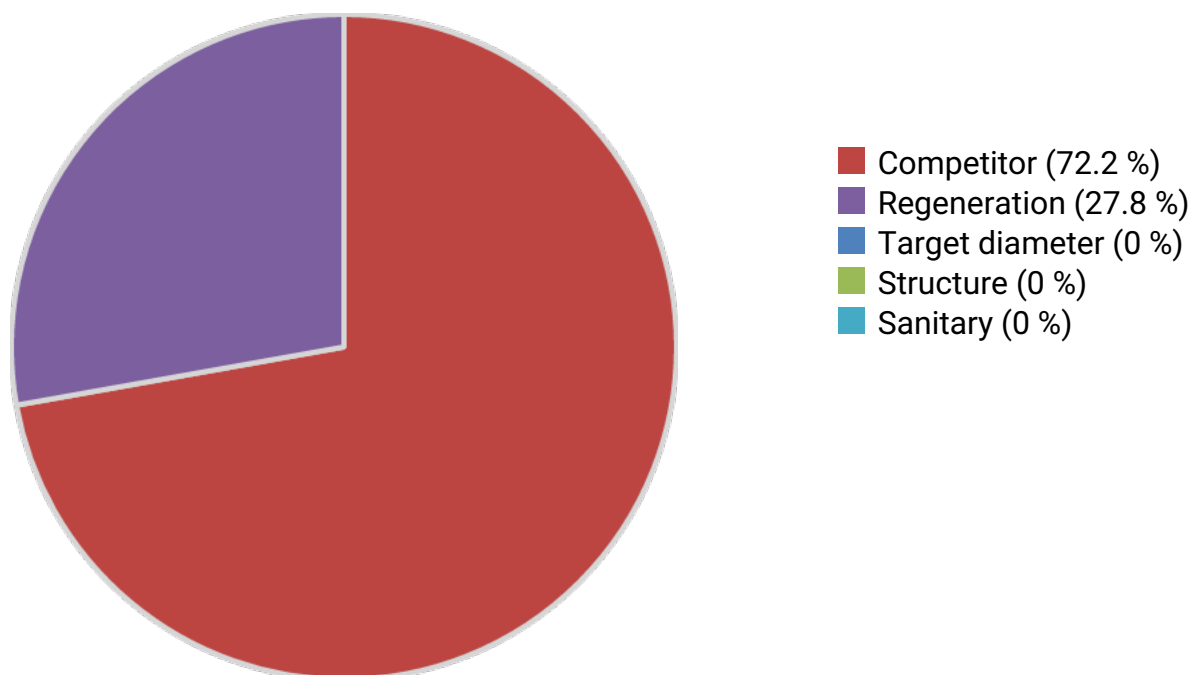
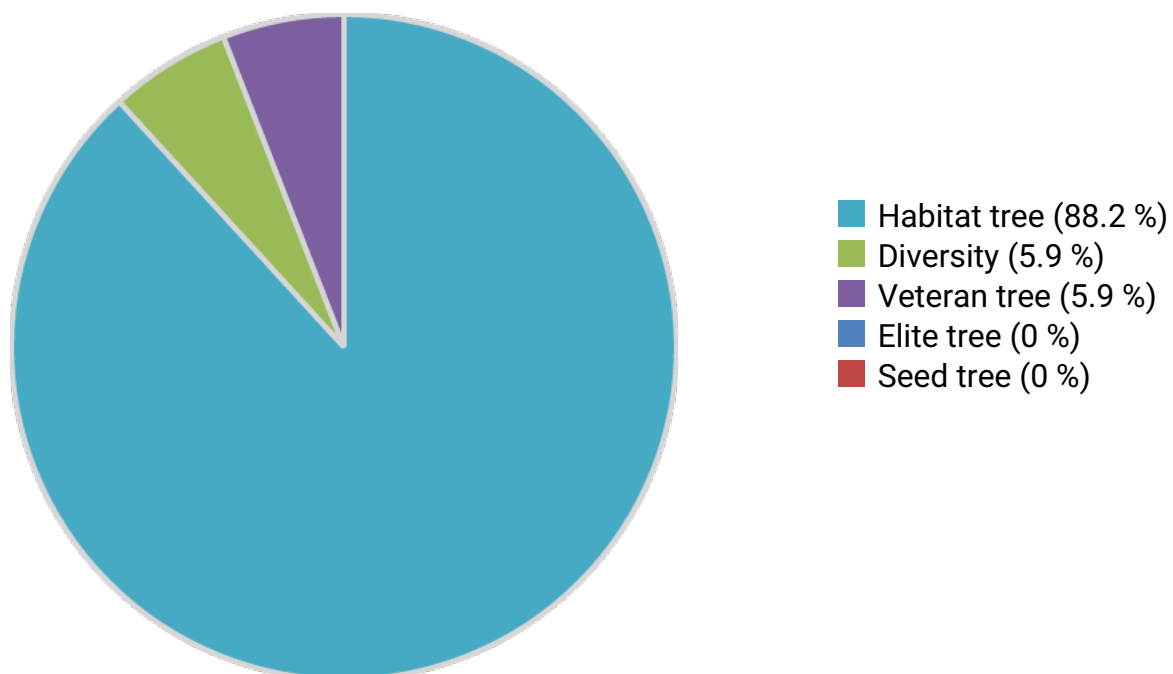
Number of habitat trees	[N]	30
Habitat value	pts.	2638
	[% of total]	12.1
Economic value	[€]	4641
	[% of total]	9.9
Number of microhabitats	[N]	175
	[% of total]	12.4

Habitat tree distribution by species (N in %)

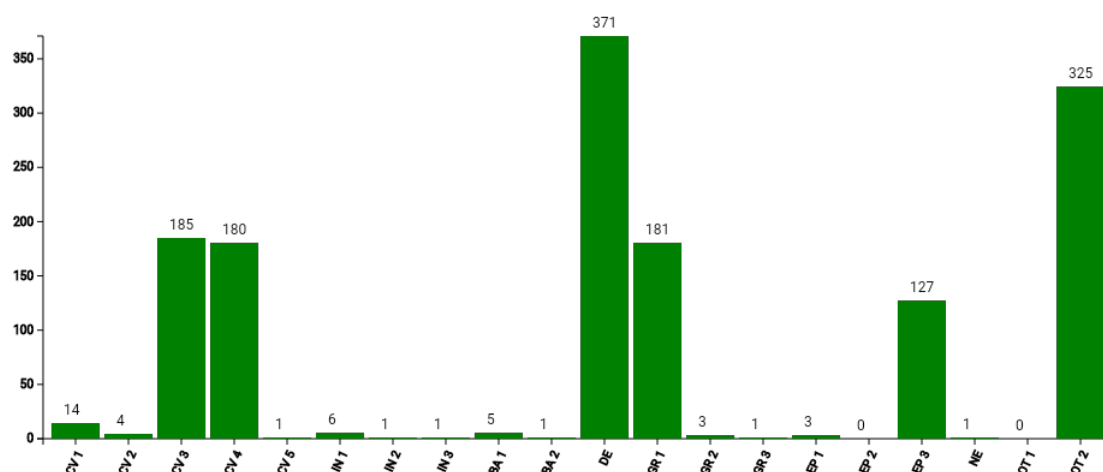


Spatial distribution of habitat trees

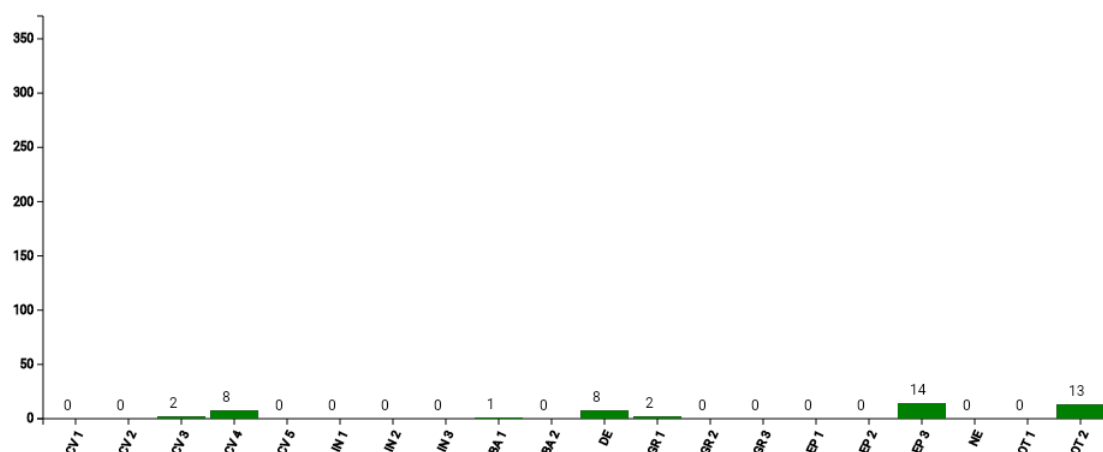


Reasons for removal**Reasons for retention**

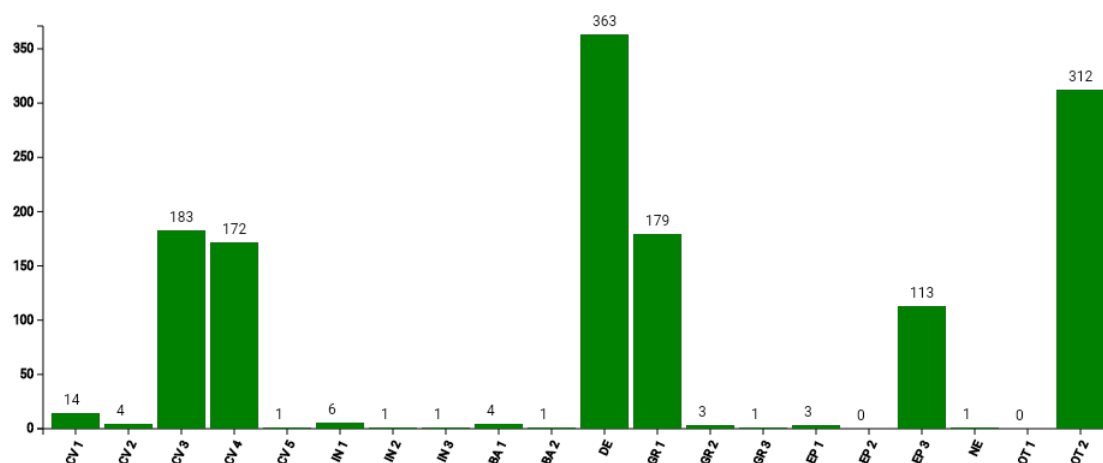
Distribution of tree microhabitats by code (N total)



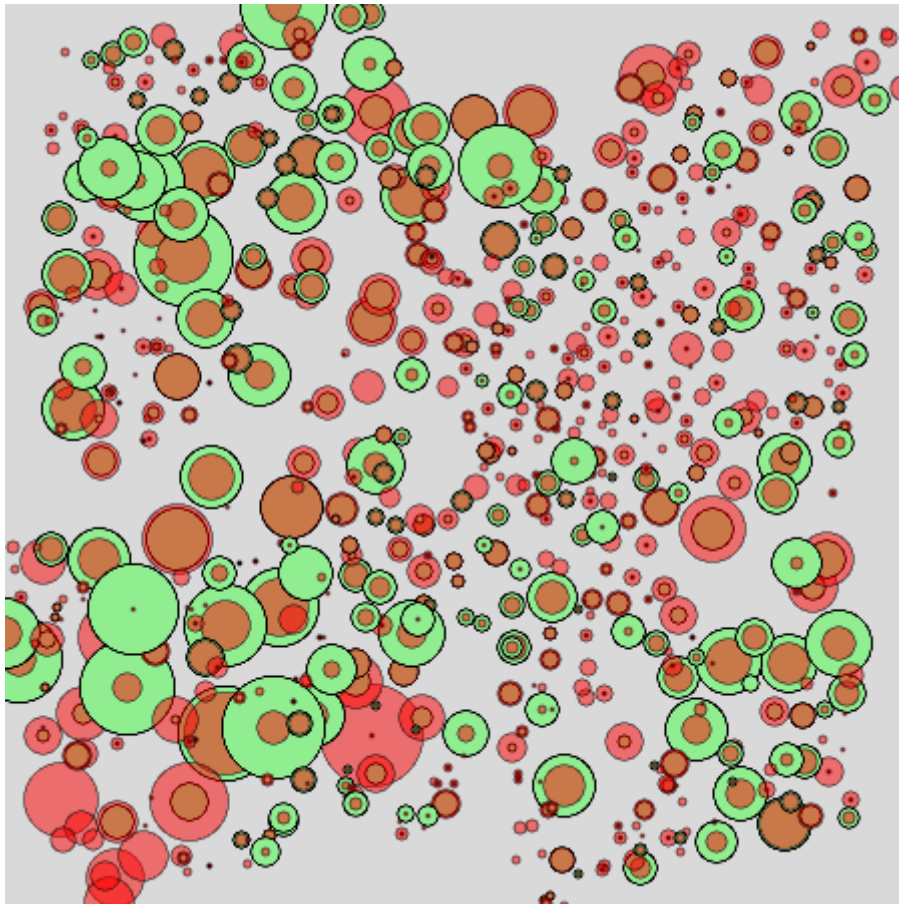
Removed tree microhabitats by code (N removed)



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 (275) Fagus sylvatica	35	0.1	1.2	101	62	Competitor
common beech (418) Fagus sylvatica	34.9	0.1	1.1	90	52	Competitor
common beech (414) Fagus sylvatica	34.2	0.09	0.8	73	0	Competitor
common beech (519) Fagus sylvatica	33.6	0.09	0.9	77	42	Competitor
common beech (396) Fagus sylvatica	33.5	0.09	0.9	77	12	Regeneration
common beech (419) Fagus sylvatica	33.1	0.09	1	89	54	Regeneration
common beech (621) Fagus sylvatica	30.5	0.07	0.8	66	3	Competitor
common beech (415) Fagus sylvatica	29.3	0.07	0.6	54	0	Competitor
common beech (395) Fagus sylvatica	28.9	0.07	0.7	57	60	Regeneration
common beech (276) Fagus sylvatica	28.5	0.06	0.7	59	32	Competitor
common beech (620) Fagus sylvatica	27.9	0.06	0.7	61	0	Competitor
common beech (259) Fagus sylvatica	25.8	0.05	0.6	53	18	Competitor
common beech (560) Fagus sylvatica	25.7	0.05	0.6	47	0	Competitor
common beech (349) Fagus sylvatica	24.4	0.05	0.5	39	8	Competitor
common beech (397) Fagus sylvatica	23.3	0.04	0.4	32	36	Regeneration
common beech (68) Fagus sylvatica	23.3	0.04	0.4	35	36	Competitor
common beech (398) Fagus sylvatica	23.3	0.04	0.5	39	12	Regeneration
common beech (374) Fagus sylvatica	22.6	0.04	0.4	33	12	Regeneration
common beech (452) Fagus sylvatica	21.6	0.04	0.4	30	0	Competitor
common beech (69) Fagus sylvatica	20.3	0.03	0.3	28	6	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (413) Fagus sylvatica	20.3	0.03	0.3	23	12	Competitor
common beech (453) Fagus sylvatica	19.4	0.03	0.3	29	0	Competitor
common beech (610) Fagus sylvatica	19.2	0.03	0.2	20	14	Competitor
common beech (642) Fagus sylvatica	19.1	0.03	0.3	23	50	Competitor
common beech (63) Fagus sylvatica	19	0.03	0.3	22	0	Competitor
common beech (416) Fagus sylvatica	18.8	0.03	0.3	23	12	Competitor
common beech (611) Fagus sylvatica	18.7	0.03	0.3	24	0	Competitor
common beech (561) Fagus sylvatica	17.2	0.02	0.2	21	3	Competitor
common beech (454) Fagus sylvatica	16.8	0.02	0.2	20	202	Competitor
common beech (420) Fagus sylvatica	16.3	0.02	0.2	15	0	Regeneration
common beech (470) Fagus sylvatica	16.2	0.02	0.2	18	0	Competitor
common beech (393) Fagus sylvatica	15.8	0.02	0.2	16	0	Regeneration
common beech (392) Fagus sylvatica	14.5	0.02	0.2	13	36	Regeneration
common beech (408) Fagus sylvatica	14.5	0.02	0.2	14	0	Competitor
common beech (277) Fagus sylvatica	14.5	0.02	0.1	13	12	Competitor
common beech (399) Fagus sylvatica	14.4	0.02	0.1	11	16	Regeneration

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	Habitat tree
common beech (107) <i>Fagus sylvatica</i>	59	0.27	2.9	251	63	Habitat tree
common beech (546) <i>Fagus sylvatica</i>	58	0.26	3.1	264	96	Habitat tree
common beech (430) <i>Fagus sylvatica</i>	57.1	0.26	3.2	272	134	Habitat tree
common beech (406) <i>Fagus sylvatica</i>	55.7	0.24	3	251	135	Diversity
common beech (411) <i>Fagus sylvatica</i>	54.5	0.23	2.8	232	180	Habitat tree
sycamore maple (358) <i>Acer pseudoplatanus</i>	53	0.22	1.4	120	68	Habitat tree
common beech (150) <i>Fagus sylvatica</i>	53	0.22	2.4	207	104	Habitat tree
sycamore maple (575) <i>Acer pseudoplatanus</i>	52	0.21	1.4	120	88	Habitat tree
common beech (514) <i>Fagus sylvatica</i>	50.2	0.2	2.4	205	51	Habitat tree
common beech (515) <i>Fagus sylvatica</i>	50.1	0.2	2.5	215	84	Habitat tree
sycamore maple (292) <i>Acer pseudoplatanus</i>	50	0.2	1.4	121	0	Habitat tree
common beech (522) <i>Fagus sylvatica</i>	48.2	0.18	1.9	159	129	Habitat tree
sycamore maple (260) <i>Acer pseudoplatanus</i>	47.6	0.18	1.4	122	134	Habitat tree
common beech (21) <i>Fagus sylvatica</i>	47.5	0.18	1.9	159	49	Veteran tree
common beech (449) <i>Fagus sylvatica</i>	46.9	0.17	2	172	138	Habitat tree
common beech (629) <i>Fagus sylvatica</i>	46.8	0.17	2	166	136	Habitat tree
common beech (407) <i>Fagus sylvatica</i>	46.7	0.17	2.1	173	136	Habitat tree
sycamore maple (477) <i>Acer pseudoplatanus</i>	46.2	0.17	1.4	120	16	Habitat tree
common beech (299) <i>Fagus sylvatica</i>	46.2	0.17	2.1	180	105	Habitat tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
sycamore maple (417) Acer pseudoplatanus	46	0.17	1.4	120	136	Habitat tree
common beech (391) Fagus sylvatica	45.2	0.16	1.7	144	44	Veteran tree
sycamore maple (89) Acer pseudoplatanus	44	0.15	1.4	122	52	Habitat tree
common beech (350) Fagus sylvatica	43.8	0.15	1.6	135	36	Habitat tree
common beech (309) Fagus sylvatica	42.1	0.14	1.5	129	12	Diversity
sycamore maple (654) Acer pseudoplatanus	41.6	0.14	1.3	110	22	Habitat tree
common beech (46) Fagus sylvatica	41.4	0.14	1.5	126	54	Habitat tree
common beech (532) Fagus sylvatica	39.6	0.12	1.3	112	116	Habitat tree
common beech (622) Fagus sylvatica	37.7	0.11	1.5	125	113	Habitat tree
common beech (559) Fagus sylvatica	37.4	0.11	1.3	112	137	Habitat tree
sycamore maple (478) Acer pseudoplatanus	37.3	0.11	1.4	120	58	Habitat tree
goat willow (300) Salix caprea	32	0.08	0.8	70	24	Habitat tree
common beech (67) Fagus sylvatica	30.6	0.07	0.8	67	84	Habitat tree
common beech (520) Fagus sylvatica	28.5	0.06	0.6	46	110	Habitat tree