

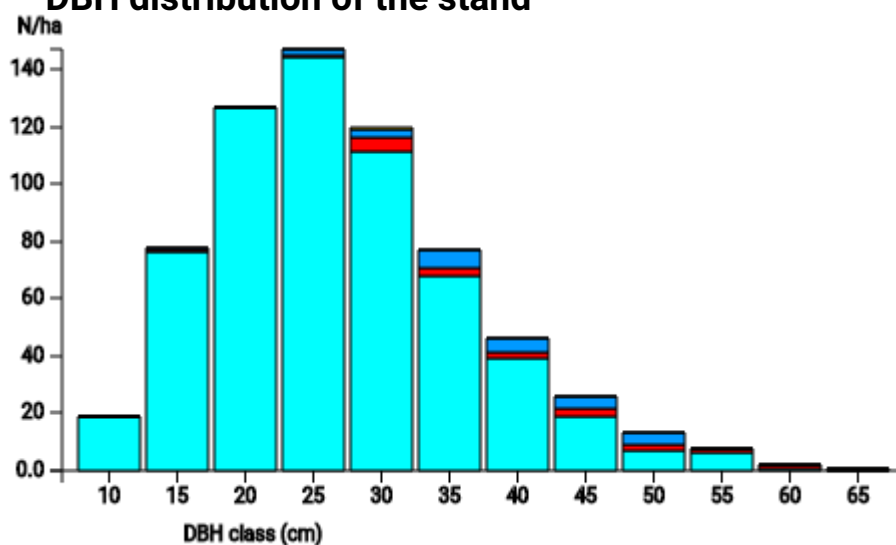
04/03/2021 Gruppo A_Turno 3 miozzo

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 %

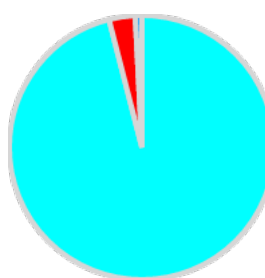
DBH distribution of the stand**Initial stand (details by tree species)**

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

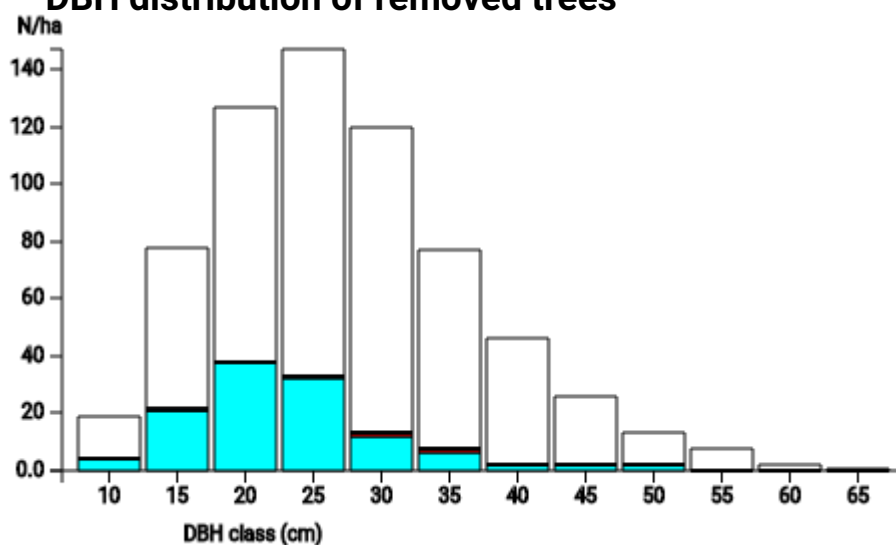
Removed treesVolume: 75 m³Basal area: 7 m²

Economic value: 6347 €

Habitat value: 2127 pts.

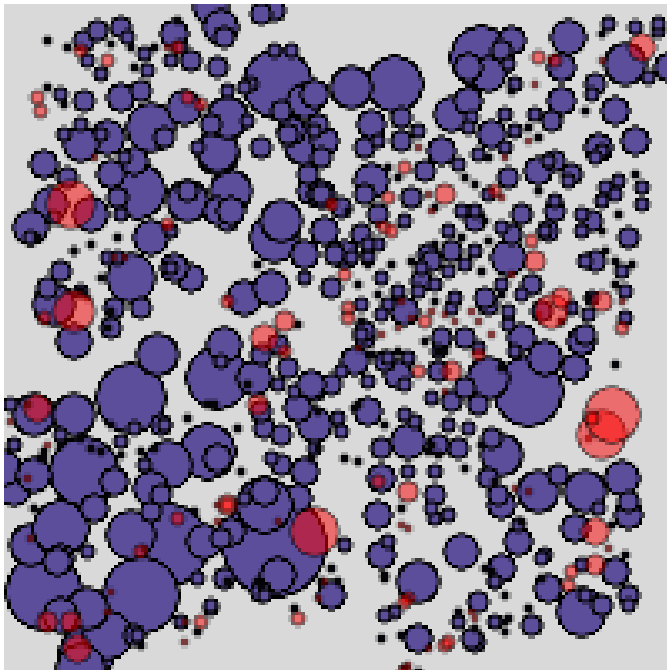
Removed trees (N in %)

- common beech: 96 %
- silver fir: 3.2 %
- sycamore maple: 0.8 %
- goat willow: 0 %

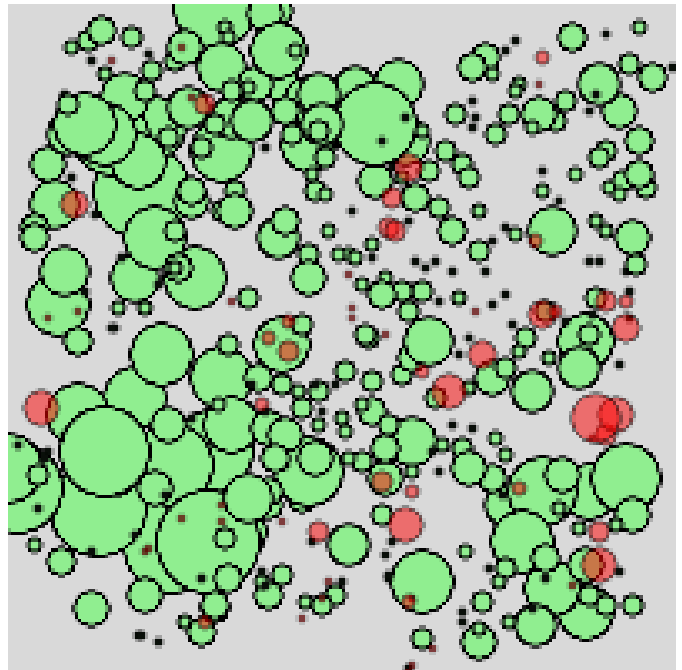
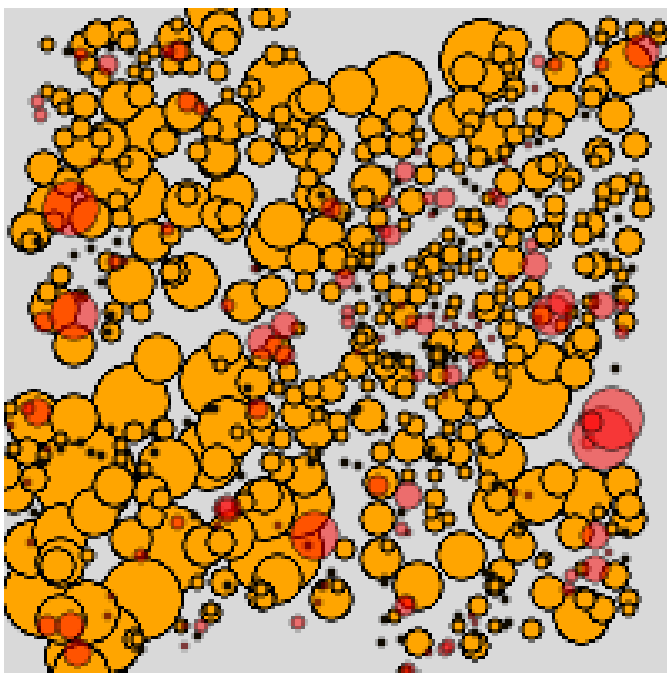
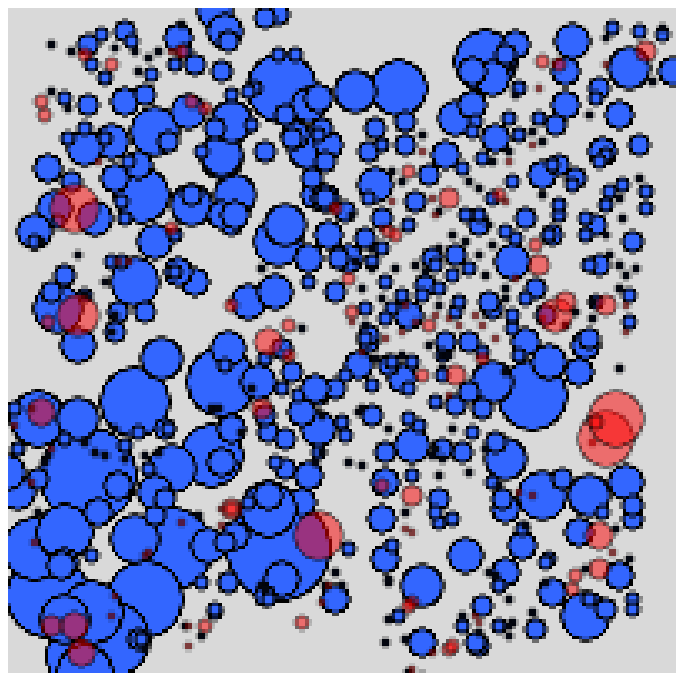
DBH distribution of removed trees**Removed trees (details by tree species)**

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	119	6.7	70.4	5998	2091	146
goat willow	0	0	0	0	0	0
silver fir	4	0.3	4.3	326	36	4
sycamore maple	1	0	0.3	23	0	0
Total	124	7	75	6347	2127	150

Economic value [EUR]



Habitat value

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

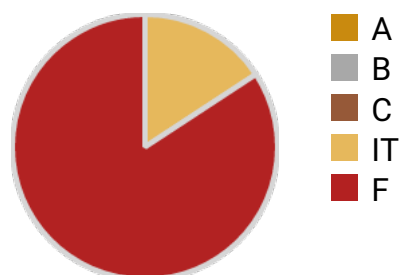
Red circles (removed trees); circle size according to numerical values (e.g. large circles mean high values); trees with very low values (e.g. habitat value "0") are not visible.

Economic values

Total value of removed trees: 6347 €
 Percentage of total stand value: 13.6 %
 Stand value after harvest: 40439 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	5998	85
silver fir	326	77
sycamore maple	23	84
goat willow	0	0
Total	6347	85

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

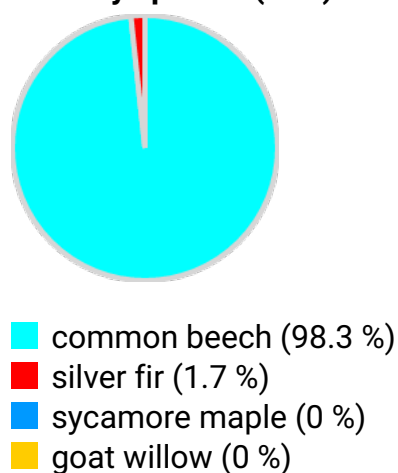
Quality class	m ³	%
A	0	0
B	0	0
C	0	0
Industrial Timber	11.8	15.8
Fuelwood	63.1	84.2

Habitat values

Total habitat value of removed trees: 2127 pts.
 Percentage of total stand value: 9.8 %
 Stand value after harvest: 19614 pts.

Habitat value by tree species [pts.]

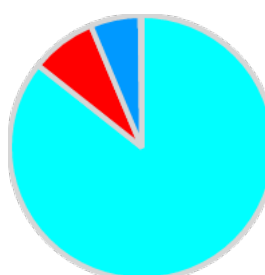
Tree species	Total	Per m ³	Microhabitats [N]
common beech	2091	29.7	146
silver fir	36	8.4	4
sycamore maple	0	0	0
goat willow	0	0	0
Total	2127	28.4	150

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

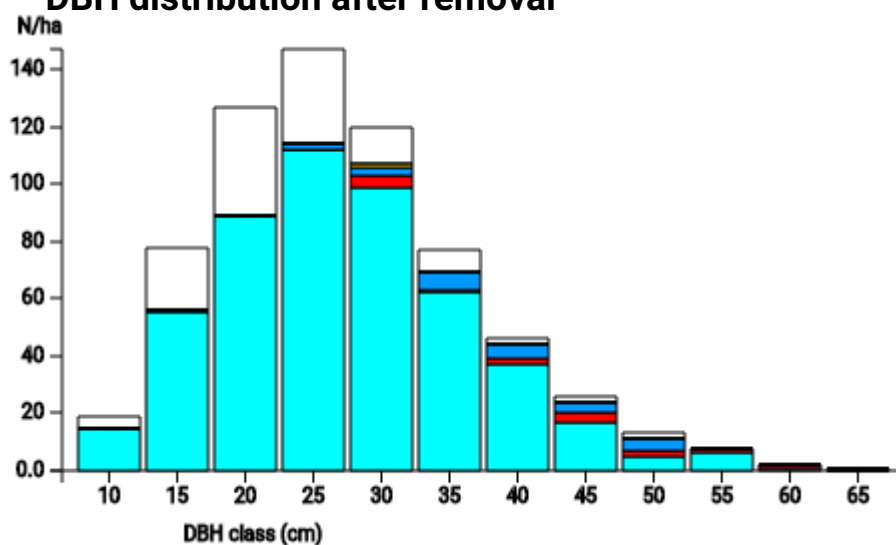
Remaining standVolume: 483.2 m³Basal area: 44.1 m²

Economic value: 40439 €

Habitat value: 19614 pts.

Remaining trees by volume (m³ in %)

common beech: 85.6 %
 silver fir: 8 %
 sycamore maple: 6.1 %
 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	498	37.6	413.6	35249	17717	1137
goat willow	1	0.1	0.8	70	24	3
silver fir	17	2.9	38.8	2734	209	21
sycamore maple	24	3.2	29.7	2386	1664	99
Total	540	43.8	482.9	40439	19614	1260

Retention treesVolume: 39.9 m³

Elite trees: 32

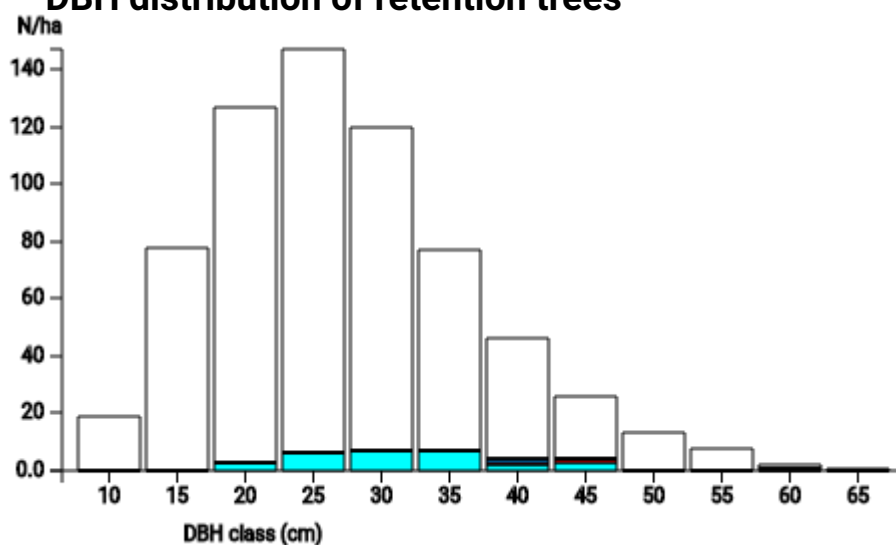
Habitat trees: 0

Economic value: 3317 €

Habitat value: 1266 pts.

Retention trees by volume (m³ in %)

common beech: 72.7 %
 silver fir: 23.8 %
 sycamore maple: 3.6 %
 goat willow: 0 %

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

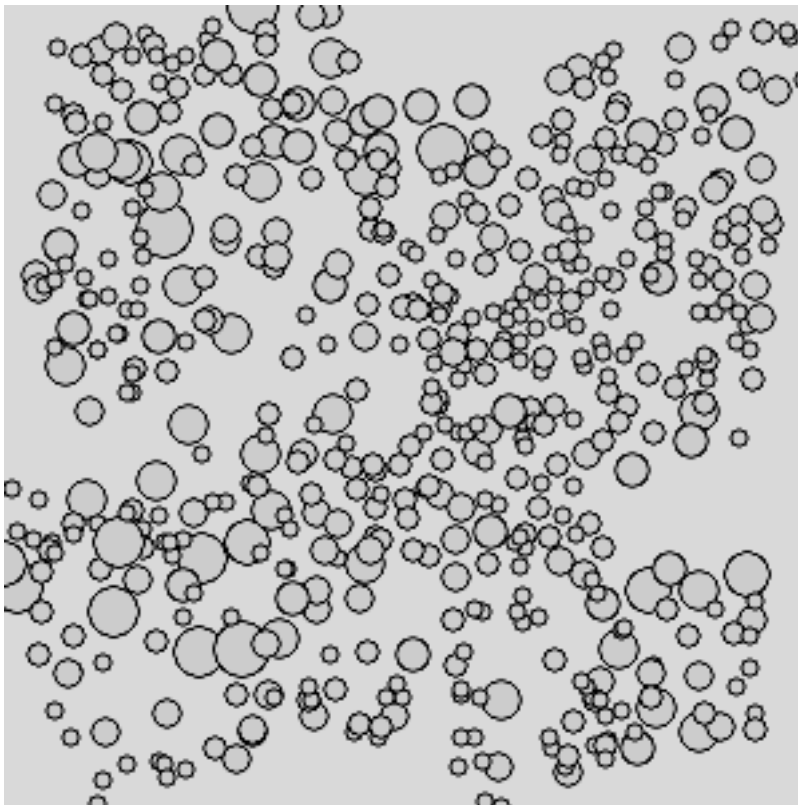
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
common beech	28	2.6	29	2484	1205	67
goat willow	0	0	0	0	0	0
silver fir	3	0.7	9.5	713	9	2
sycamore maple	1	0.1	1.4	120	52	3
Total	32	3.4	39.9	3317	1266	72

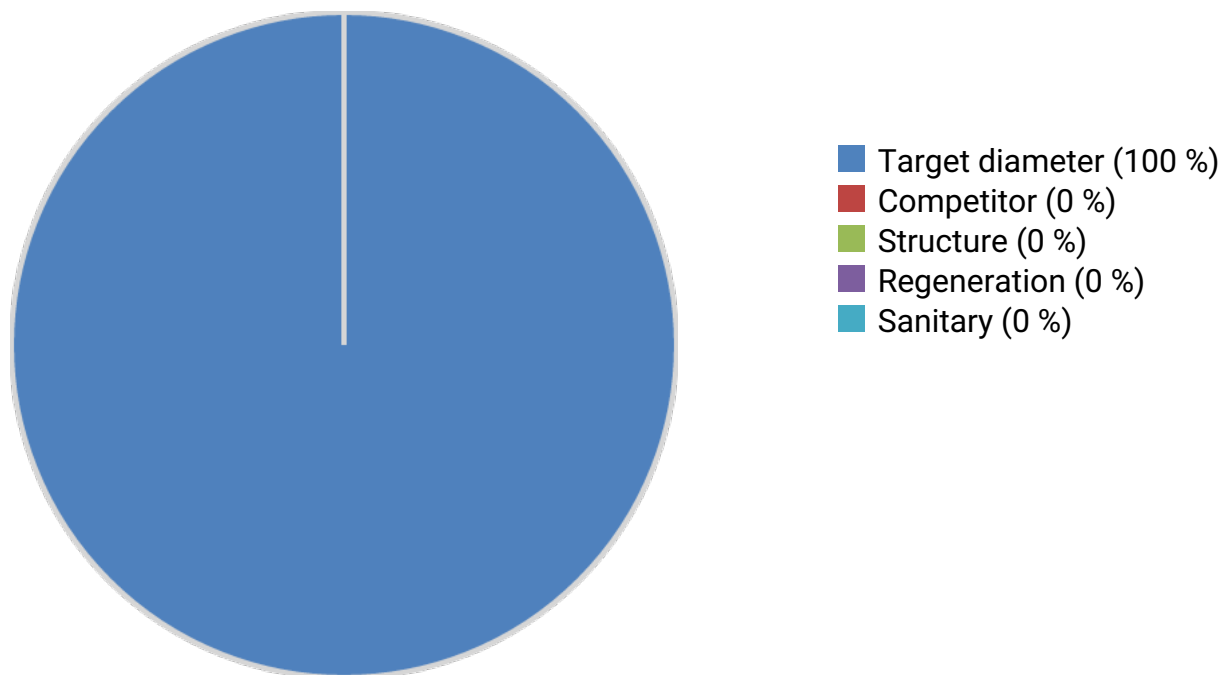
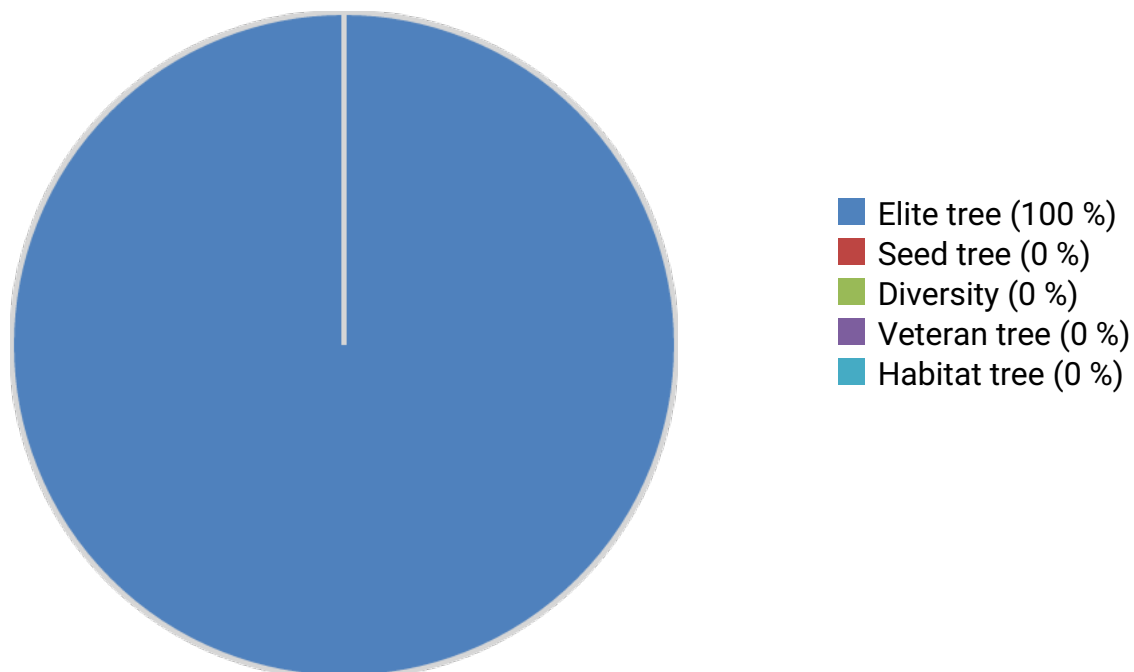
Number of habitat trees	[N]	0
Habitat value	pts.	0
	[% of total]	0
Economic value	[€]	0
	[% of total]	0
Number of microhabitats	[N]	0
	[% of total]	0

Habitat tree distribution by species (N in %)

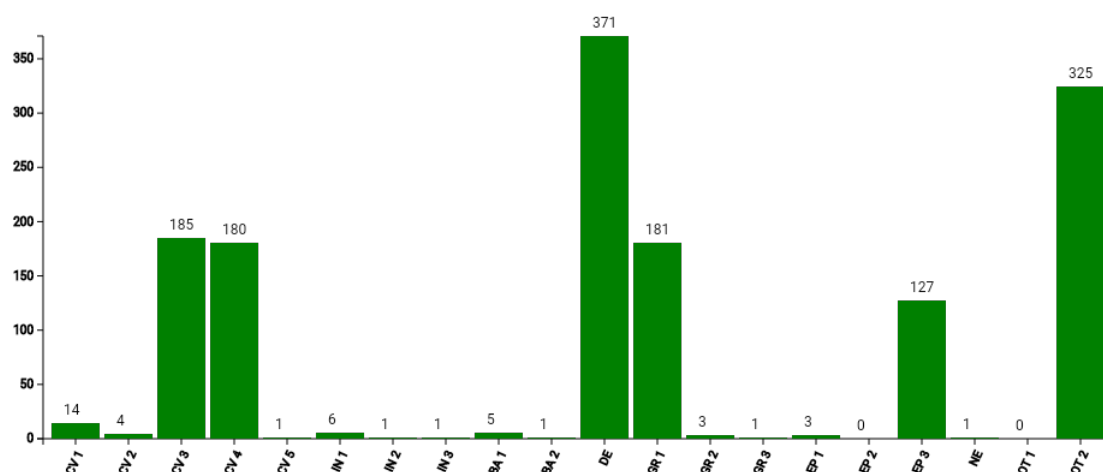
-  common beech: NaN %
-  silver fir: NaN %
-  sycamore maple: NaN %
-  goat willow: NaN %

Spatial distribution of habitat trees

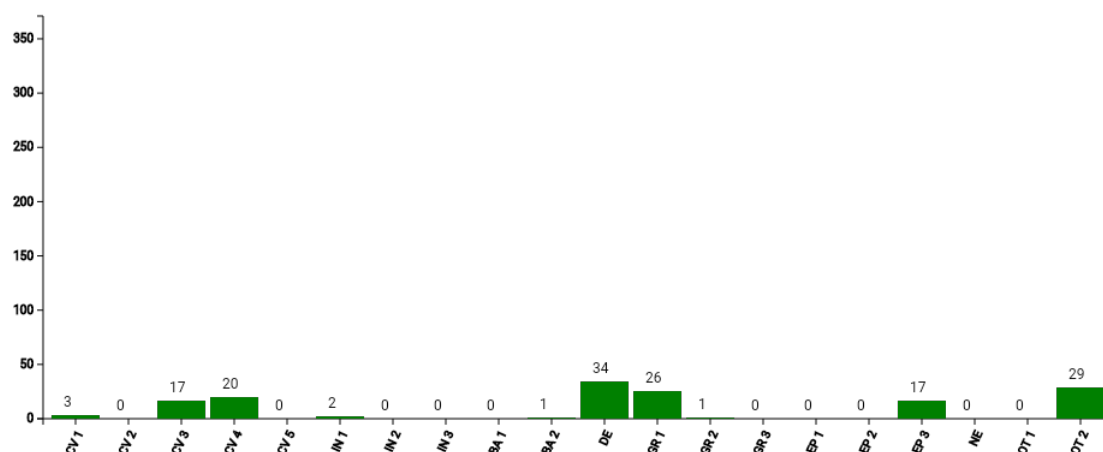


Reasons for removal**Reasons for retention**

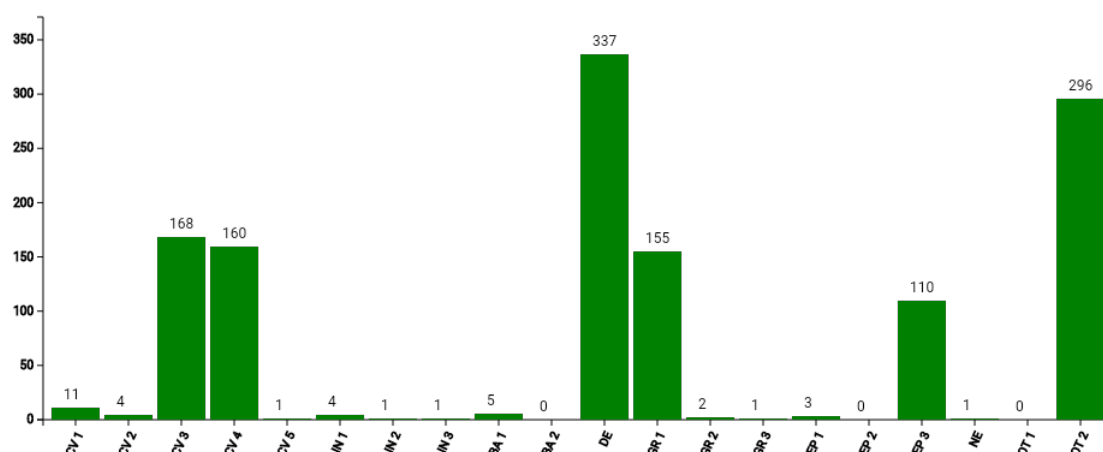
Distribution of tree microhabitats by code (N total)



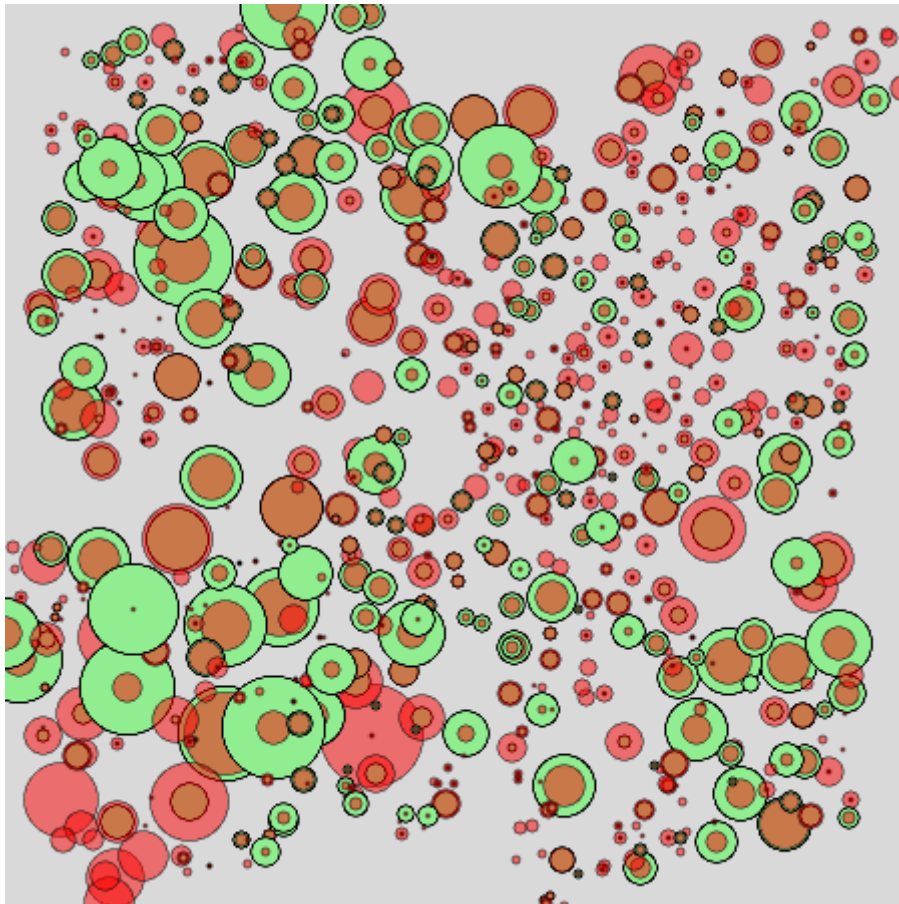
Removed tree microhabitats by code (N removed)



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	Target diameter
common beech (515) Fagus sylvatica	50.1	0.2	2.5	215	84	Target diameter
common beech (320) Fagus sylvatica	49.7	0.19	2.2	190	66	Target diameter
common beech (357) Fagus sylvatica	46.2	0.17	2.2	189	44	Target diameter
common beech (329) Fagus sylvatica	44.3	0.15	1.8	152	15	Target diameter
common beech (534) Fagus sylvatica	42.2	0.14	1.5	130	38	Target diameter
common beech (384) Fagus sylvatica	39.5	0.12	1.3	113	28	Target diameter
common beech (18) Fagus sylvatica	38.2	0.12	1.1	96	6	Target diameter
silver fir (482) Abies alba	36.6	0.11	1.3	76	4	Target diameter
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	Target diameter
silver fir (499) Abies alba	36.1	0.1	1.3	112	4	Target diameter
common beech (450) Fagus sylvatica	36.1	0.1	1.2	106	72	Target diameter
common beech (624) Fagus sylvatica	35	0.1	1	80	36	Target diameter
common beech (517) Fagus sylvatica	34.8	0.1	1	82	42	Target diameter
common beech (344) Fagus sylvatica	34.6	0.09	0.8	69	38	Target diameter
common beech (414) Fagus sylvatica	34.2	0.09	0.8	73	0	Target diameter
common beech (38) Fagus sylvatica	34.2	0.09	1	84	0	Target diameter
common beech (58) Fagus sylvatica	33.6	0.09	1	89	0	Target diameter
common beech (124) Fagus sylvatica	32.2	0.08	0.8	73	3	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (639) Fagus sylvatica	31.6	0.08	0.6	54	44	Target diameter
common beech (346) Fagus sylvatica	31.5	0.08	0.7	60	48	Target diameter
common beech (284) Fagus sylvatica	31	0.08	0.7	62	12	Target diameter
silver fir (498) Abies alba	31	0.08	1	91	4	Target diameter
common beech (147) Fagus sylvatica	31	0.08	0.7	58	60	Target diameter
common beech (380) Fagus sylvatica	30.8	0.08	0.8	71	36	Target diameter
common beech (591) Fagus sylvatica	30.2	0.07	0.8	72	0	Target diameter
common beech (569) Fagus sylvatica	29.7	0.07	0.8	66	54	Target diameter
common beech (157) Fagus sylvatica	29.5	0.07	0.7	57	44	Target diameter
common beech (208) Fagus sylvatica	29.4	0.07	0.7	62	3	Target diameter
common beech (415) Fagus sylvatica	29.3	0.07	0.6	54	0	Target diameter
common beech (247) Fagus sylvatica	29.3	0.07	0.7	63	12	Target diameter
common beech (343) Fagus sylvatica	28.7	0.07	0.6	53	20	Target diameter
common beech (250) Fagus sylvatica	28.7	0.07	0.6	52	9	Target diameter
common beech (635) Fagus sylvatica	28.6	0.06	0.8	67	26	Target diameter
common beech (138) Fagus sylvatica	28.5	0.06	0.7	57	0	Target diameter
common beech (193) Fagus sylvatica	28.5	0.06	0.7	57	12	Target diameter
common beech (520) Fagus sylvatica	28.5	0.06	0.6	46	110	Target diameter
common beech (616) Fagus sylvatica	28.4	0.06	0.6	46	36	Target diameter
common beech (156) Fagus sylvatica	28.1	0.06	0.6	53	42	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (246) Fagus sylvatica	28	0.06	0.7	56	39	Target diameter
common beech (65) Fagus sylvatica	28	0.06	0.7	62	38	Target diameter
common beech (288) Fagus sylvatica	27.9	0.06	0.6	49	0	Target diameter
common beech (503) Fagus sylvatica	27.6	0.06	0.5	43	64	Target diameter
common beech (539) Fagus sylvatica	27.2	0.06	0.7	59	12	Target diameter
common beech (337) Fagus sylvatica	27.1	0.06	0.6	51	0	Target diameter
common beech (91) Fagus sylvatica	27	0.06	0.6	55	0	Target diameter
silver fir (438) Abies alba	26.9	0.06	0.6	47	24	Target diameter
common beech (336) Fagus sylvatica	26.7	0.06	0.5	45	6	Target diameter
common beech (64) Fagus sylvatica	26.6	0.06	0.6	54	6	Target diameter
common beech (259) Fagus sylvatica	25.8	0.05	0.6	53	18	Target diameter
common beech (202) Fagus sylvatica	25.6	0.05	0.6	48	18	Target diameter
common beech (154) Fagus sylvatica	25.2	0.05	0.5	42	48	Target diameter
common beech (501) Fagus sylvatica	25.2	0.05	0.5	39	32	Target diameter
common beech (273) Fagus sylvatica	25.2	0.05	0.6	49	6	Target diameter
common beech (521) Fagus sylvatica	25.1	0.05	0.5	40	12	Target diameter
common beech (661) Fagus sylvatica	25.1	0.05	0.5	41	21	Target diameter
common beech (630) Fagus sylvatica	25.1	0.05	0.6	49	6	Target diameter
common beech (59) Fagus sylvatica	25	0.05	0.5	45	36	Target diameter
common beech (203) Fagus sylvatica	25	0.05	0.5	42	14	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (631) Fagus sylvatica	24.9	0.05	0.6	49	6	Target diameter
common beech (634) Fagus sylvatica	24.8	0.05	0.6	50	14	Target diameter
common beech (394) Fagus sylvatica	24.7	0.05	0.6	48	12	Target diameter
common beech (538) Fagus sylvatica	24.2	0.05	0.5	46	0	Target diameter
common beech (437) Fagus sylvatica	24.1	0.05	0.5	44	18	Target diameter
common beech (297) Fagus sylvatica	23.9	0.05	0.5	38	0	Target diameter
common beech (161) Fagus sylvatica	23.8	0.04	0.5	39	6	Target diameter
common beech (471) Fagus sylvatica	23.8	0.04	0.5	40	0	Target diameter
common beech (458) Fagus sylvatica	23.8	0.04	0.5	43	12	Target diameter
common beech (78) Fagus sylvatica	23.7	0.04	0.4	37	0	Target diameter
common beech (663) Fagus sylvatica	23.6	0.04	0.5	43	18	Target diameter
common beech (129) Fagus sylvatica	23.5	0.04	0.5	40	0	Target diameter
common beech (253) Fagus sylvatica	23.3	0.04	0.4	35	6	Target diameter
common beech (44) Fagus sylvatica	23.2	0.04	0.4	38	0	Target diameter
common beech (627) Fagus sylvatica	23.2	0.04	0.4	36	72	Target diameter
common beech (139) Fagus sylvatica	22.8	0.04	0.4	38	0	Target diameter
common beech (512) Fagus sylvatica	22.7	0.04	0.5	40	0	Target diameter
common beech (168) Fagus sylvatica	22.7	0.04	0.4	36	6	Target diameter
common beech (487) Fagus sylvatica	22.6	0.04	0.5	38	0	Target diameter
common beech (374) Fagus sylvatica	22.6	0.04	0.4	33	12	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (550) Fagus sylvatica	22.6	0.04	0.4	36	0	Target diameter
common beech (492) Fagus sylvatica	22.5	0.04	0.3	28	0	Target diameter
common beech (310) Fagus sylvatica	22.4	0.04	0.4	31	0	Target diameter
common beech (598) Fagus sylvatica	22	0.04	0.4	35	0	Target diameter
common beech (127) Fagus sylvatica	21.8	0.04	0.4	33	0	Target diameter
common beech (440) Fagus sylvatica	21.7	0.04	0.4	32	0	Target diameter
common beech (164) Fagus sylvatica	21.2	0.04	0.3	29	0	Target diameter
common beech (159) Fagus sylvatica	21.2	0.04	0.3	28	3	Target diameter
common beech (56) Fagus sylvatica	21	0.04	0.3	28	64	Target diameter
common beech (118) Fagus sylvatica	21	0.04	0.4	32	0	Target diameter
common beech (562) Fagus sylvatica	20.8	0.03	0.3	27	36	Target diameter
common beech (197) Fagus sylvatica	20.8	0.03	0.3	30	15	Target diameter
common beech (205) Fagus sylvatica	20.5	0.03	0.3	28	0	Target diameter
common beech (298) Fagus sylvatica	20.4	0.03	0.3	29	0	Target diameter
common beech (69) Fagus sylvatica	20.3	0.03	0.3	28	6	Target diameter
common beech (491) Fagus sylvatica	20.3	0.03	0.3	26	0	Target diameter
common beech (413) Fagus sylvatica	20.3	0.03	0.3	23	12	Target diameter
common beech (66) Fagus sylvatica	20	0.03	0.3	29	9	Target diameter
common beech (370) Fagus sylvatica	19.8	0.03	0.3	28	12	Target diameter
common beech (115) Fagus sylvatica	19.5	0.03	0.3	25	14	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (80) Fagus sylvatica	19.4	0.03	0.3	24	0	Target diameter
common beech (442) Fagus sylvatica	19.2	0.03	0.3	24	3	Target diameter
common beech (117) Fagus sylvatica	19.2	0.03	0.3	26	0	Target diameter
common beech (552) Fagus sylvatica	19	0.03	0.3	24	0	Target diameter
common beech (628) Fagus sylvatica	19	0.03	0.3	24	0	Target diameter
common beech (131) Fagus sylvatica	18.8	0.03	0.3	23	0	Target diameter
common beech (416) Fagus sylvatica	18.8	0.03	0.3	23	12	Target diameter
sycamore maple (485) Acer pseudoplatanus	18.7	0.03	0.3	23	0	Target diameter
common beech (116) Fagus sylvatica	18.3	0.03	0.3	23	0	Target diameter
common beech (466) Fagus sylvatica	17.6	0.02	0.3	24	3	Target diameter
common beech (375) Fagus sylvatica	17.6	0.02	0.2	16	14	Target diameter
common beech (592) Fagus sylvatica	17.2	0.02	0.2	21	72	Target diameter
common beech (72) Fagus sylvatica	17	0.02	0.2	19	0	Target diameter
common beech (465) Fagus sylvatica	16.9	0.02	0.3	21	0	Target diameter
common beech (632) Fagus sylvatica	16.4	0.02	0.2	21	15	Target diameter
common beech (238) Fagus sylvatica	16.2	0.02	0.1	11	3	Target diameter
common beech (599) Fagus sylvatica	16	0.02	0.2	21	0	Target diameter
common beech (457) Fagus sylvatica	15.9	0.02	0.2	20	12	Target diameter
common beech (563) Fagus sylvatica	15.8	0.02	0.2	13	6	Target diameter
common beech (326) Fagus sylvatica	15	0.02	0.2	15	6	Target diameter

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (354) Fagus sylvatica	14.4	0.02	0.1	13	0	Target diameter
common beech (493) Fagus sylvatica	13.1	0.01	0.1	8	0	Target diameter
common beech (328) Fagus sylvatica	13	0.01	0.1	8	0	Target diameter
common beech (464) Fagus sylvatica	12.1	0.01	0.1	8	0	Target diameter

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	Elite tree
silver fir (472) Abies alba	49.1	0.19	2.6	176	3	Elite tree
common beech (545) Fagus sylvatica	47.6	0.18	2.1	176	150	Elite tree
common beech (629) Fagus sylvatica	46.8	0.17	2	166	136	Elite tree
common beech (342) Fagus sylvatica	46.5	0.17	2.1	178	142	Elite tree
silver fir (483) Abies alba	44	0.15	2.2	127	0	Elite tree
common beech (255) Fagus sylvatica	42.6	0.14	1.6	135	90	Elite tree
common beech (311) Fagus sylvatica	40.7	0.13	1.6	135	54	Elite tree
sycamore maple (371) Acer pseudoplatanus	40.6	0.13	1.4	120	52	Elite tree
common beech (640) Fagus sylvatica	39.6	0.12	1.2	100	71	Elite tree
common beech (47) Fagus sylvatica	38.7	0.12	1.4	119	0	Elite tree
common beech (224) Fagus sylvatica	38	0.11	1.2	108	42	Elite tree
common beech (251) Fagus sylvatica	37	0.11	1.2	107	0	Elite tree
common beech (160) Fagus sylvatica	35.6	0.1	1.2	99	44	Elite tree
common beech (364) Fagus sylvatica	35.5	0.1	1.1	93	128	Elite tree
common beech (3) Fagus sylvatica	35.5	0.1	1.2	102	10	Elite tree
common beech (379) Fagus sylvatica	34.8	0.1	0.9	79	20	Elite tree
common beech (79) Fagus sylvatica	33.7	0.09	0.8	71	0	Elite tree
common beech (535) Fagus sylvatica	33	0.09	0.9	80	44	Elite tree
common beech (201) Fagus sylvatica	32.5	0.08	1	83	3	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
common beech (57) Fagus sylvatica	32	0.08	0.9	73	6	Elite tree
common beech (155) Fagus sylvatica	31.5	0.08	0.9	77	3	Elite tree
common beech (128) Fagus sylvatica	31.3	0.08	0.9	78	42	Elite tree
common beech (615) Fagus sylvatica	29.7	0.07	0.8	69	6	Elite tree
common beech (307) Fagus sylvatica	28.8	0.07	0.7	60	6	Elite tree
common beech (502) Fagus sylvatica	28.5	0.06	0.6	53	20	Elite tree
common beech (648) Fagus sylvatica	27.7	0.06	0.7	58	48	Elite tree
common beech (528) Fagus sylvatica	26.9	0.06	0.5	44	72	Elite tree
common beech (335) Fagus sylvatica	25.6	0.05	0.5	40	0	Elite tree
common beech (439) Fagus sylvatica	22	0.04	0.4	35	68	Elite tree
common beech (425) Fagus sylvatica	22	0.04	0.4	35	0	Elite tree
common beech (285) Fagus sylvatica	21.5	0.04	0.3	29	0	Elite tree