

05/08/2021 gruppo C 5ago somadida

Site conditions

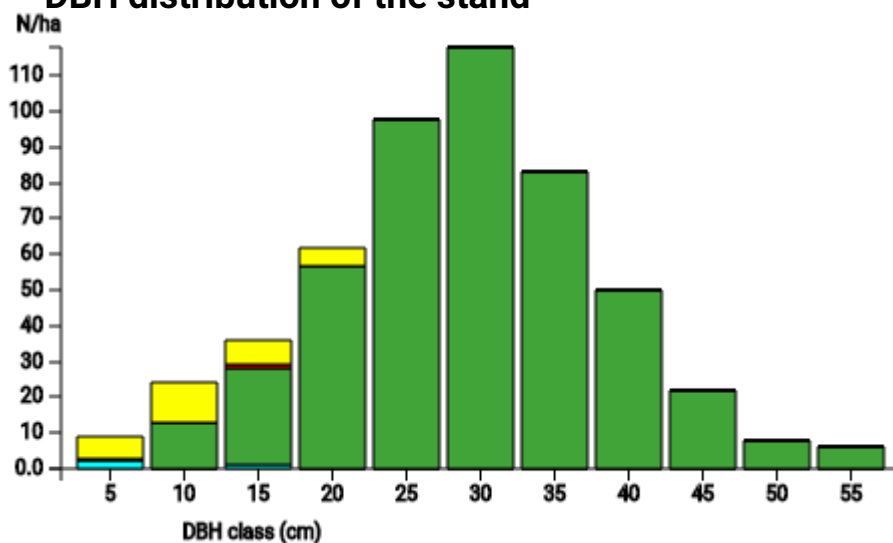
Altitude: 1180 m.a.s.l.
 Forest ecological region: Veneto
 Geology / Bedrock: Fluvio-glacial and alluvial formations
 Soil type: Haplic cambisol
 Natural forest community: Vaccinio myrtilli-Piceetea abietis
 Mean annual temperature: 5.5 C;
 Mean annual precipitation: 1100 mm; Ownership: Region;
 Establishment: 2021

Tree species distribution by volume (in %)



- Norway spruce: 99.1 %
- sycamore maple: 0.8 %
- common beech: 0.1 %
- silver fir: 0 %

DBH distribution of the stand



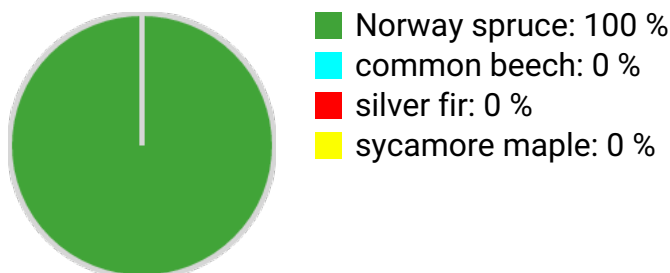
Initial stand (details by tree species)

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
Norway spruce	483	41.4	540.2	28801	736	130
common beech	3	0	0.3	9	3	1
silver fir	1	0	0.2	4	0	0
sycamore maple	29	0.5	4.2	110	152	14
Total	516	41.9	544.9	28923	891	145

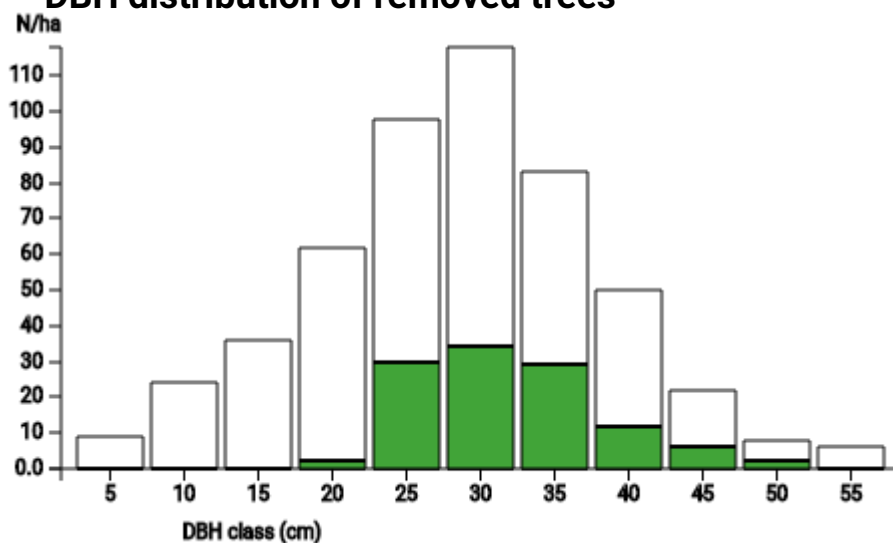
Removed trees

Volume: 145.6 m³
 Basal area: 11 m²
 Economic value: 7895 €
 Habitat value: 33 pts.

Removed trees (N in %)



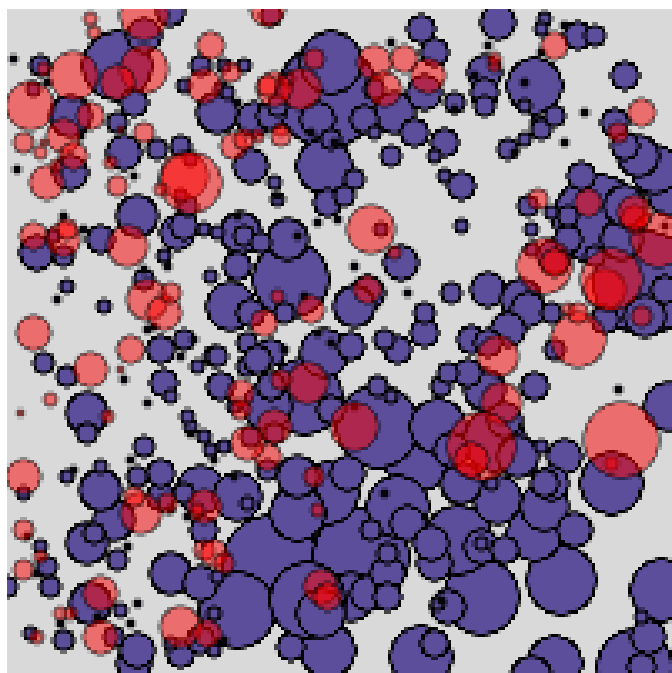
DBH distribution of removed trees



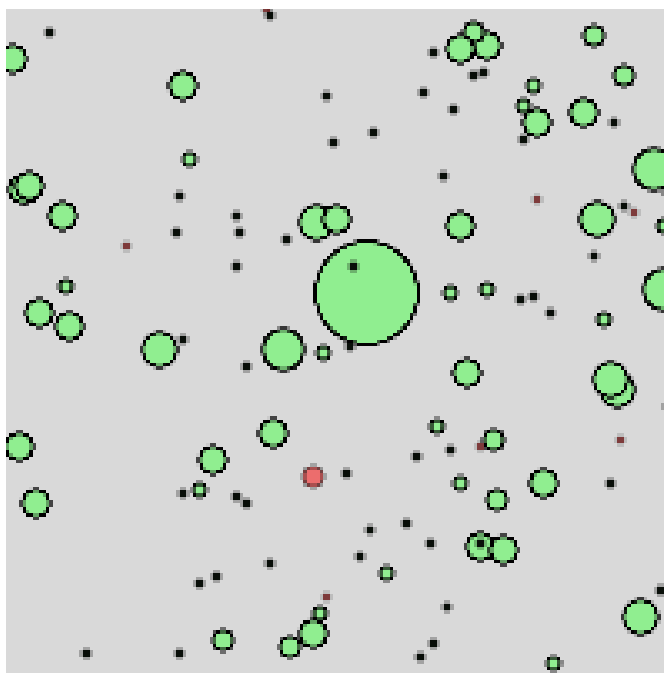
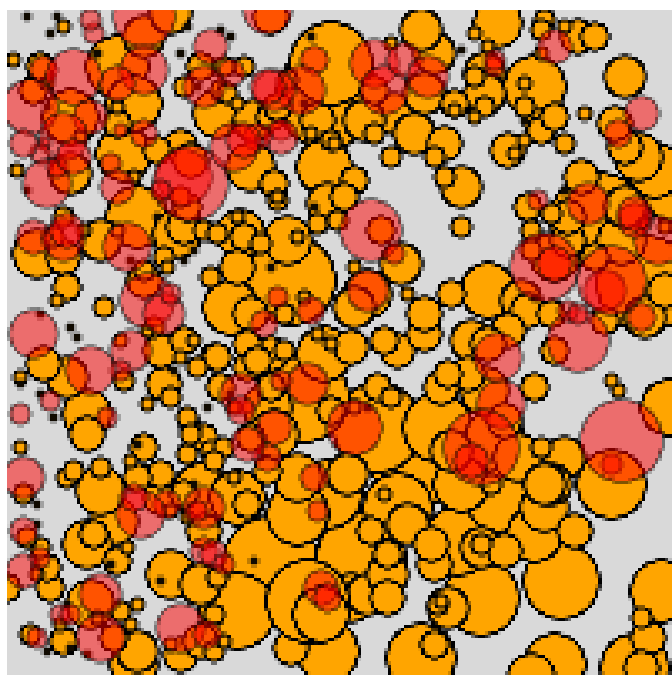
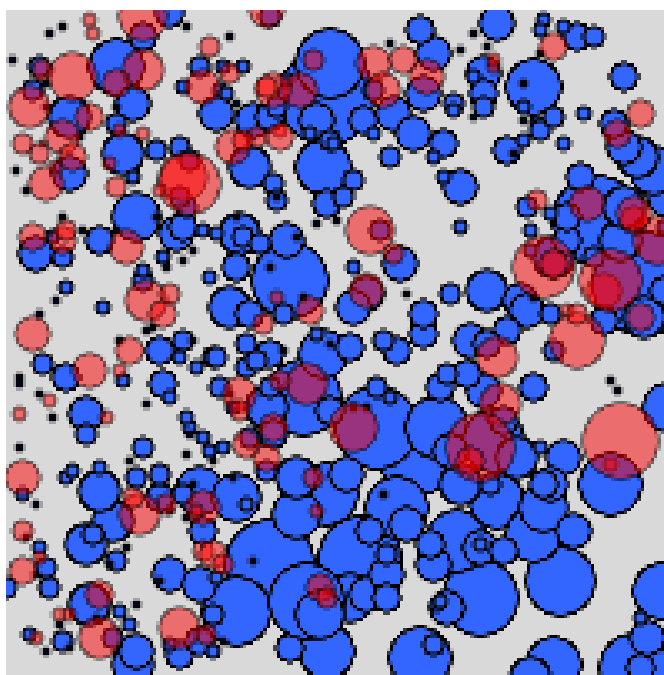
Removed trees (details by tree species)

Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
Norway spruce	115	11	145.6	7895	33	9
common beech	0	0	0	0	0	0
silver fir	0	0	0	0	0	0
sycamore maple	0	0	0	0	0	0
Total	115	11	145.6	7895	33	9

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.

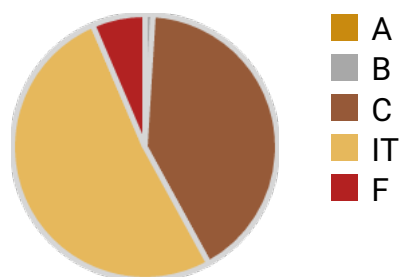
Economic values

Total value of removed trees: 7895 €
 Percentage of total stand value: 27.3 %
 Stand value after harvest: 21029 €

Economic value by tree species [€]

Tree species	Total	Per m ³
common beech	0	0
Norway spruce	7895	54
silver fir	0	0
sycamore maple	0	0
Total	7895	54

Wood quality distribution (m³ in %)



Quality class	m ³	%
A	0	0
B	1.4	1
C	59.8	41
Industrial Timber	75.1	51.5
Fuelwood	9.4	6.4

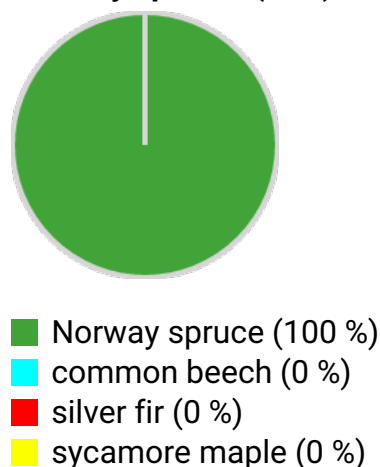
Habitat values

Total habitat value of removed trees: 33 pts.
 Percentage of total stand value: 3.7 %
 Stand value after harvest: 858 pts.

Habitat value by tree species [pts.]

Tree species	Total	Per m ³	Microhabitats [N]
common beech	0	0	0
Norway spruce	33	0.2	9
silver fir	0	0	0
sycamore maple	0	0	0
Total	33	0.2	9

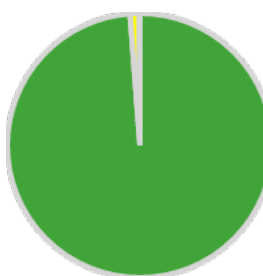
Habitat value (points) of removed trees by species (in %)



Remaining stand

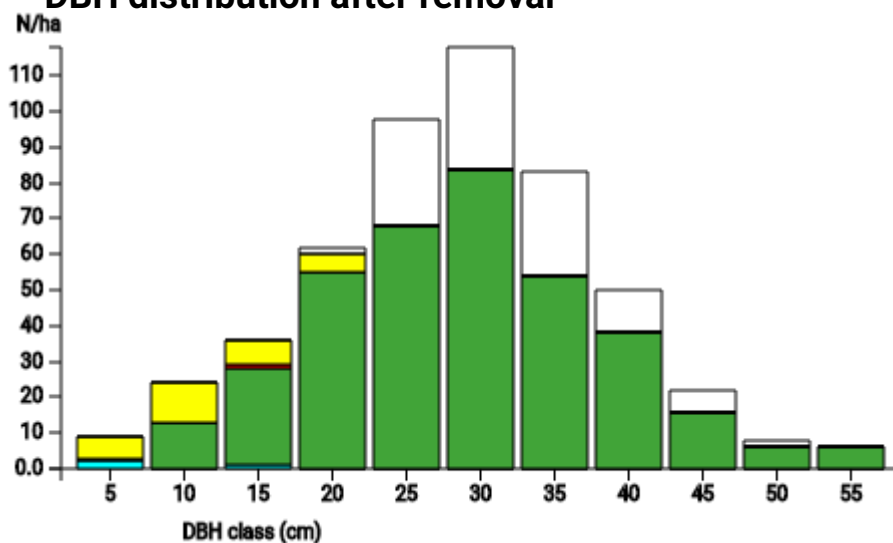
Volume: 399.5 m³
 Basal area: 31.4 m²
 Economic value: 21029 €
 Habitat value: 858 pts.

Remaining trees by volume (m³ in %)



- Norway spruce: 98.8 %
- sycamore maple: 1.1 %
- common beech: 0.1 %
- silver fir: 0 %

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)
Norway spruce	368	30.4	394.6	20907	703	121
common beech	3	0	0.3	9	3	1
silver fir	1	0	0.2	4	0	0
sycamore maple	29	0.5	4.2	110	152	14
Total	401	30.9	399.3	21029	858	136

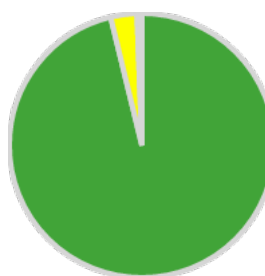
Retention treesVolume: 89.8 m³

Elite trees: 24

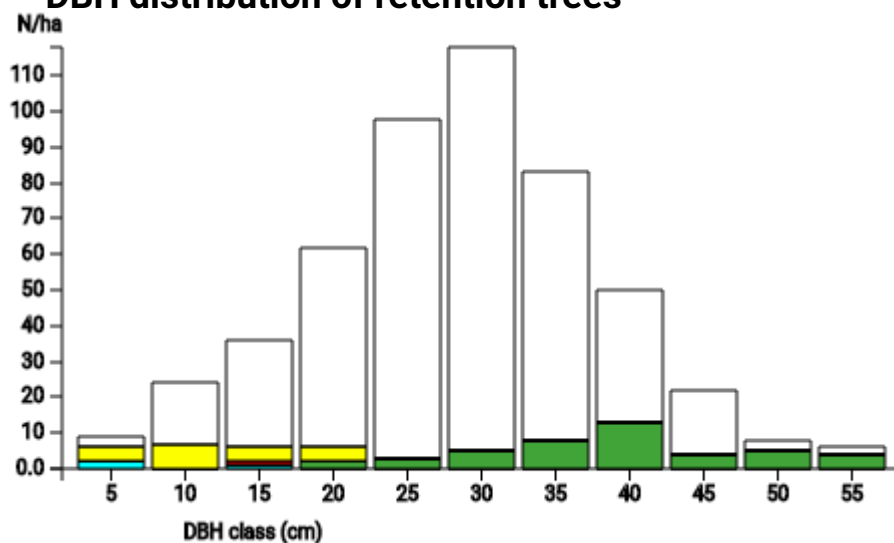
Habitat trees: 19

Economic value: 4808 €

Habitat value: 317 pts.

Retention trees by volume (m³ in %)

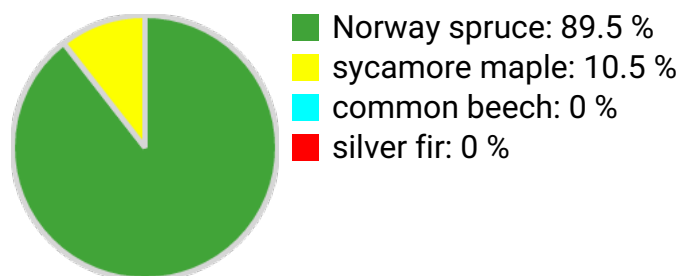
- Norway spruce: 96.2 %
- sycamore maple: 3.2 %
- common beech: 0.4 %
- silver fir: 0.2 %

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

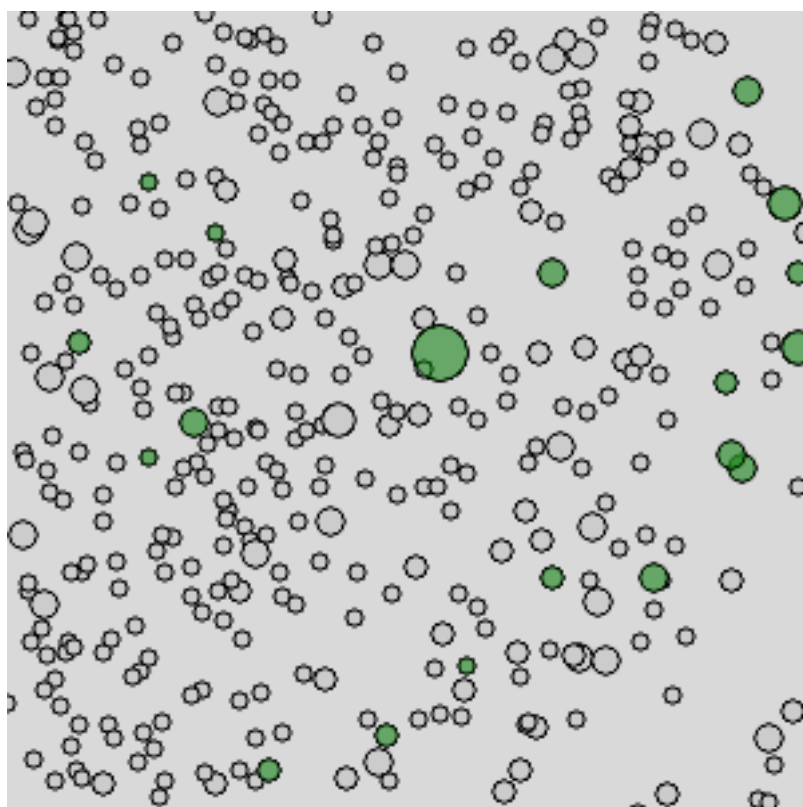
Tree species	N/ha	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
Norway spruce	44	6.1	86.4	4720	222	27
common beech	3	0	0.3	9	3	1
silver fir	1	0	0.2	4	0	0
sycamore maple	19	0.3	2.9	76	92	9
Total	67	6.5	89.7	4808	317	37

Number of habitat trees	[N]	19
Habitat value	pts.	222
	[% of total]	24.9
Economic value	[€]	1063
	[% of total]	3.7
Number of microhabitats	[N]	24
	[% of total]	16.6

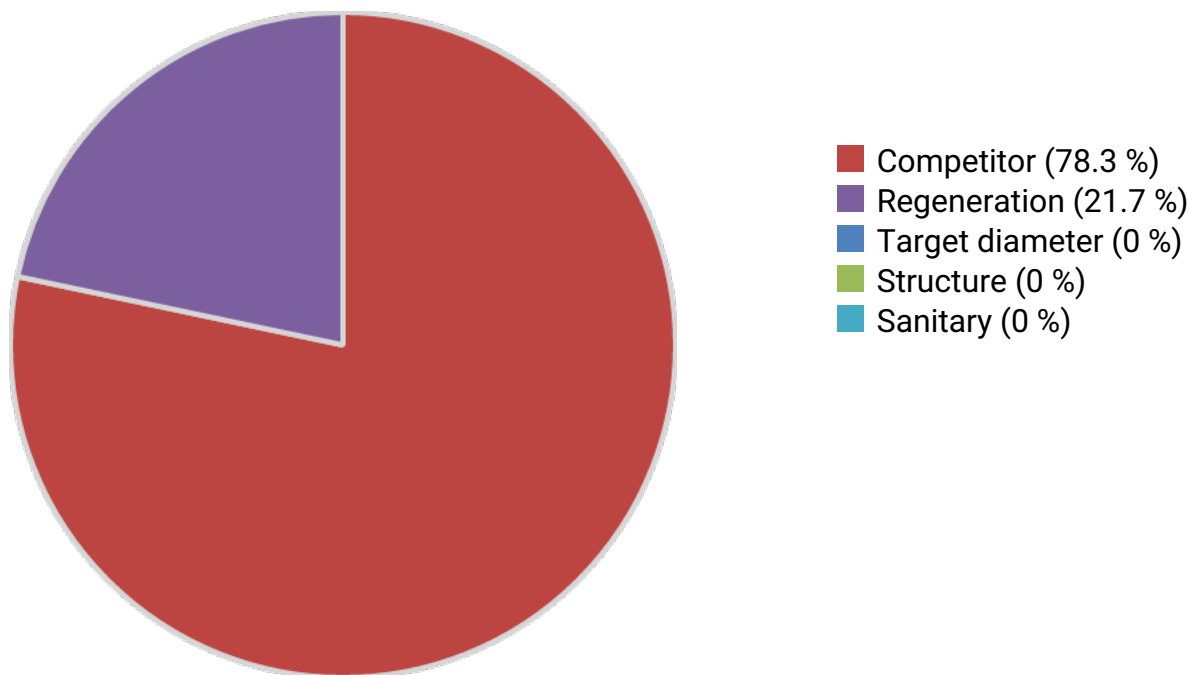
Habitat tree distribution by species (N in %)



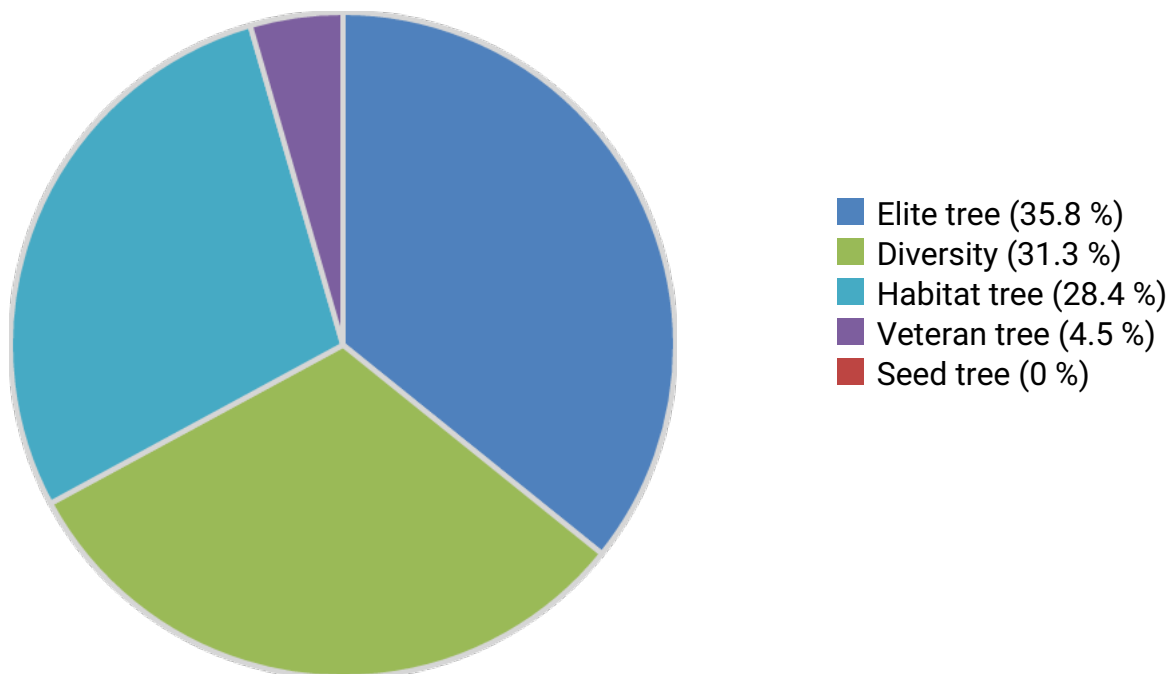
Spatial distribution of habitat trees



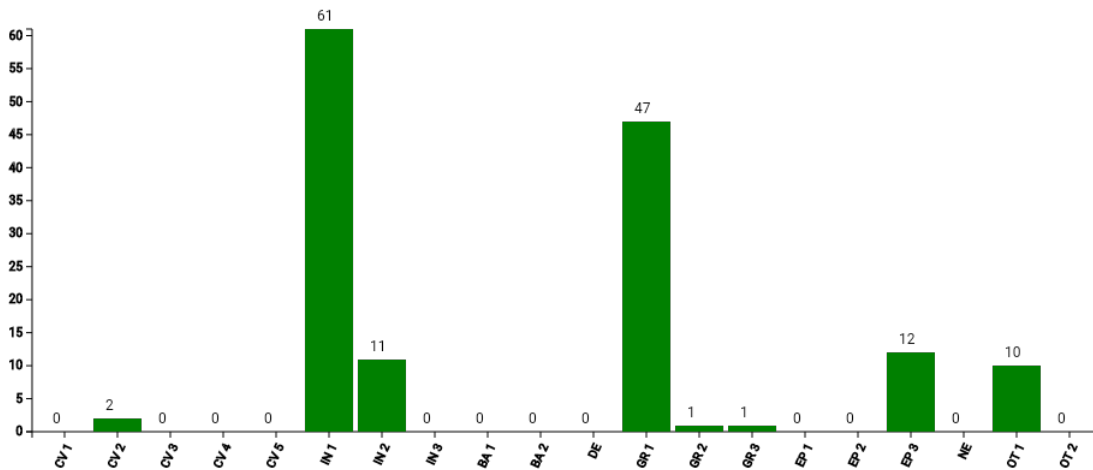
Reasons for removal



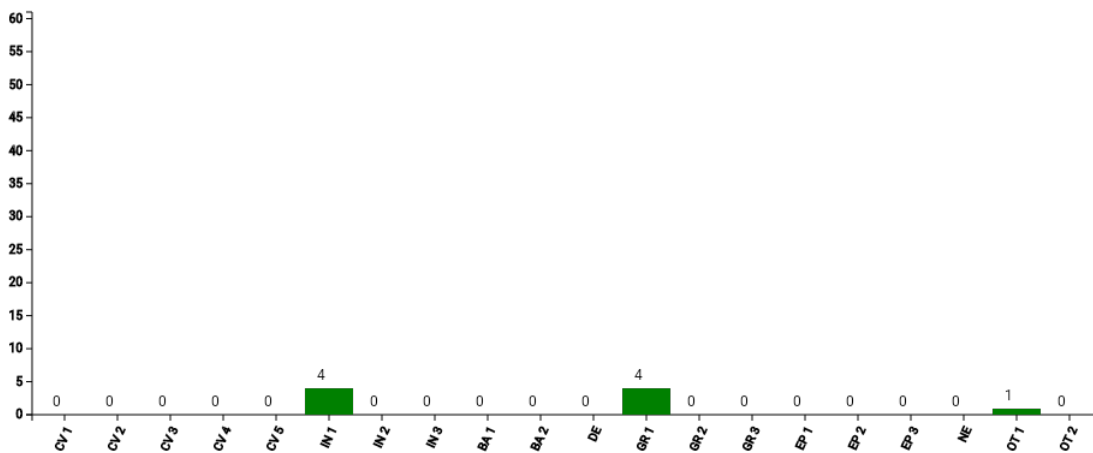
Reasons for retention



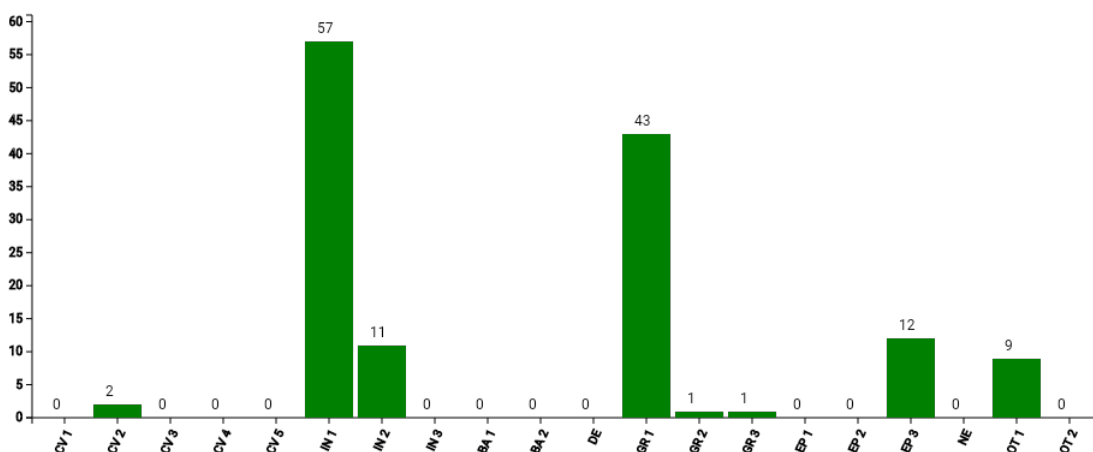
Distribution of tree microhabitats by code (N total)



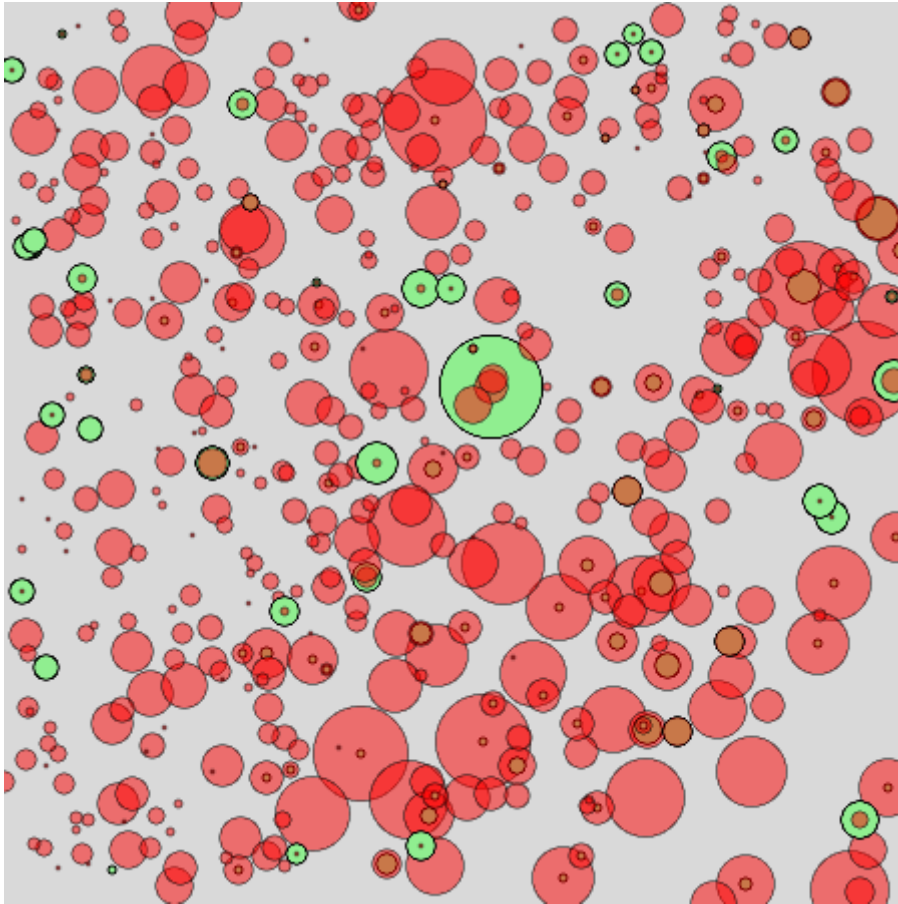
Removed tree microhabitats by code (N removed)



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
Norway spruce (354) Picea abies	52	0.21	3.3	182	3	Regeneration
Norway spruce (360) Picea abies	50	0.2	3.1	174	3	Competitor
Norway spruce (101) Picea abies	49.5	0.19	2.8	155	0	Regeneration
Norway spruce (493) Picea abies	47.5	0.18	2.8	127	0	Competitor
Norway spruce (492) Picea abies	47.5	0.18	2.8	154	0	Competitor
Norway spruce (484) Picea abies	46	0.17	2.2	113	0	Competitor
Norway spruce (7) Picea abies	45	0.16	2	115	0	Regeneration
Norway spruce (519) Picea abies	45	0.16	2.5	138	0	Competitor
Norway spruce (350) Picea abies	44	0.15	2.1	120	0	Competitor
Norway spruce (100) Picea abies	43	0.15	2.2	121	0	Regeneration
Norway spruce (55) Picea abies	42.5	0.14	1.8	112	0	Regeneration
Norway spruce (147) Picea abies	42.5	0.14	1.9	98	0	Regeneration
Norway spruce (51) Picea abies	42	0.14	2.1	111	0	Regeneration
Norway spruce (120) Picea abies	41.5	0.14	1.6	94	4	Competitor
Norway spruce (478) Picea abies	41.5	0.14	2.2	131	0	Competitor
Norway spruce (264) Picea abies	41	0.13	1.9	106	0	Competitor
Norway spruce (73) Picea abies	40.5	0.13	1.7	86	0	Competitor
Norway spruce (166) Picea abies	40.5	0.13	1.4	81	0	Competitor
Norway spruce (311) Picea abies	40	0.13	1.8	101	0	Competitor
Norway spruce (9) Picea abies	40	0.13	1.6	91	3	Competitor
Norway spruce (421)	39.5	0.12	1.7	84	0	Regeneration

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Picea abies						
Norway spruce (320) Picea abies	39.5	0.12	1.7	85	0	Competitor
Norway spruce (335) Picea abies	39.5	0.12	1.7	98	0	Competitor
Norway spruce (39) Picea abies	39.5	0.12	1.6	94	0	Competitor
Norway spruce (347) Picea abies	39.5	0.12	1.7	98	0	Competitor
Norway spruce (169) Picea abies	39.5	0.12	1.5	87	0	Regeneration
Norway spruce (29) Picea abies	39	0.12	1.7	113	0	Competitor
Norway spruce (419) Picea abies	39	0.12	1.6	82	0	Regeneration
Norway spruce (96) Picea abies	39	0.12	1.5	78	0	Regeneration
Norway spruce (81) Picea abies	39	0.12	1.5	69	0	Competitor
Norway spruce (423) Picea abies	38.5	0.12	1.5	76	0	Competitor
Norway spruce (499) Picea abies	38.5	0.12	1.7	94	0	Competitor
Norway spruce (198) Picea abies	38	0.11	1.7	96	0	Competitor
Norway spruce (118) Picea abies	37.5	0.11	1.3	77	0	Competitor
Norway spruce (47) Picea abies	37.5	0.11	1.4	79	0	Competitor
Norway spruce (496) Picea abies	37	0.11	1.5	74	0	Competitor
Norway spruce (266) Picea abies	37	0.11	1.5	85	0	Competitor
Norway spruce (300) Picea abies	37	0.11	1.4	78	0	Competitor
Norway spruce (200) Picea abies	37	0.11	1.4	70	0	Competitor
Norway spruce (171) Picea abies	37	0.11	1.3	75	0	Competitor
Norway spruce (227) Picea abies	36.5	0.11	1.4	80	0	Regeneration

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Norway spruce (37) Picea abies	36	0.1	1.4	78	0	Regeneration
Norway spruce (155) Picea abies	36	0.1	1.3	77	0	Regeneration
Norway spruce (470) Picea abies	36	0.1	1.4	70	0	Competitor
Norway spruce (220) Picea abies	35.5	0.1	1.4	78	0	Competitor
Norway spruce (469) Picea abies	35.5	0.1	1.5	82	4	Competitor
Norway spruce (418) Picea abies	35	0.1	1.1	59	0	Regeneration
Norway spruce (50) Picea abies	35	0.1	1.3	80	0	Competitor
Norway spruce (414) Picea abies	35	0.1	1.3	64	0	Competitor
Norway spruce (237) Picea abies	34.5	0.09	1.3	76	0	Competitor
Norway spruce (58) Picea abies	34	0.09	1.2	70	0	Competitor
Norway spruce (286) Picea abies	34	0.09	1.1	50	0	Competitor
Norway spruce (361) Picea abies	34	0.09	1.4	76	0	Competitor
Norway spruce (488) Picea abies	34	0.09	1.3	64	0	Competitor
Norway spruce (427) Picea abies	34	0.09	1.3	63	0	Competitor
Norway spruce (116) Picea abies	34	0.09	1.1	59	0	Competitor
Norway spruce (293) Picea abies	33.5	0.09	1.4	76	0	Competitor
Norway spruce (82) Picea abies	33.5	0.09	1.1	49	0	Competitor
Norway spruce (77) Picea abies	33.5	0.09	1.2	68	0	Competitor
Norway spruce (476) Picea abies	33	0.09	1.2	69	0	Competitor
Norway spruce (115) Picea abies	33	0.09	1.1	55	0	Competitor
Norway spruce (84)	33	0.09	1.2	58	0	Regeneration

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Picea abies						
Norway spruce (97) Picea abies	33	0.09	1	55	0	Competitor
Norway spruce (31) Picea abies	33	0.09	1	59	0	Competitor
Norway spruce (36) Picea abies	33	0.09	1.1	51	0	Regeneration
Norway spruce (259) Picea abies	32.5	0.08	1	53	0	Competitor
Norway spruce (441) Picea abies	32	0.08	1.1	56	0	Competitor
Norway spruce (280) Picea abies	32	0.08	1.1	63	0	Competitor
Norway spruce (160) Picea abies	32	0.08	1.1	62	0	Competitor
Norway spruce (310) Picea abies	31.5	0.08	1	59	0	Competitor
Norway spruce (162) Picea abies	31.5	0.08	1	60	0	Competitor
Norway spruce (13) Picea abies	31	0.08	0.8	48	0	Competitor
Norway spruce (281) Picea abies	31	0.08	1	55	0	Competitor
Norway spruce (295) Picea abies	31	0.08	1	59	3	Competitor
Norway spruce (34) Picea abies	31	0.08	0.9	46	0	Competitor
Norway spruce (257) Picea abies	31	0.08	0.9	53	0	Competitor
Norway spruce (254) Picea abies	31	0.08	1	57	9	Competitor
Norway spruce (247) Picea abies	30.5	0.07	0.9	51	0	Competitor
Norway spruce (252) Picea abies	30.5	0.07	1.1	61	0	Competitor
Norway spruce (501) Picea abies	30	0.07	1.1	55	0	Competitor
Norway spruce (83) Picea abies	30	0.07	0.9	41	0	Regeneration
Norway spruce (52) Picea abies	30	0.07	0.8	41	0	Competitor

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Norway spruce (75) Picea abies	30	0.07	0.8	43	0	Competitor
Norway spruce (69) Picea abies	29.5	0.07	0.8	46	0	Regeneration
Norway spruce (216) Picea abies	29.5	0.07	0.9	46	0	Competitor
Norway spruce (210) Picea abies	29	0.07	0.8	41	0	Competitor
Norway spruce (290) Picea abies	29	0.07	0.9	50	0	Competitor
Norway spruce (503) Picea abies	29	0.07	0.9	44	0	Competitor
Norway spruce (91) Picea abies	29	0.07	0.8	41	0	Competitor
Norway spruce (76) Picea abies	29	0.07	0.8	41	0	Competitor
Norway spruce (205) Picea abies	28.5	0.06	0.7	36	0	Competitor
Norway spruce (485) Picea abies	28.5	0.06	0.8	41	0	Competitor
Norway spruce (197) Picea abies	28.5	0.06	0.9	44	0	Competitor
Norway spruce (67) Picea abies	28.5	0.06	0.7	37	0	Regeneration
Norway spruce (146) Picea abies	28.5	0.06	0.8	46	0	Regeneration
Norway spruce (314) Picea abies	28.5	0.06	0.7	30	0	Competitor
Norway spruce (471) Picea abies	28	0.06	0.8	42	4	Competitor
Norway spruce (158) Picea abies	28	0.06	0.7	38	0	Competitor
Norway spruce (88) Picea abies	28	0.06	0.7	39	0	Competitor
Norway spruce (285) Picea abies	28	0.06	0.7	39	0	Competitor
Norway spruce (318) Picea abies	28	0.06	0.7	38	0	Competitor
Norway spruce (6) Picea abies	28	0.06	0.7	42	0	Regeneration
Norway spruce (20) Picea abies	27.5	0.06	0.7	40	0	Regeneration

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Picea abies						
Norway spruce (99) Picea abies	27.5	0.06	0.6	29	0	Regeneration
Norway spruce (425) Picea abies	27.5	0.06	0.7	31	0	Competitor
Norway spruce (271) Picea abies	27	0.06	0.7	31	0	Competitor
Norway spruce (315) Picea abies	27	0.06	0.6	35	0	Competitor
Norway spruce (424) Picea abies	27	0.06	0.5	29	0	Competitor
Norway spruce (270) Picea abies	26.5	0.06	0.7	35	0	Competitor
Norway spruce (504) Picea abies	26.5	0.06	0.7	35	0	Competitor
Norway spruce (188) Picea abies	26	0.05	0.5	24	0	Competitor
Norway spruce (207) Picea abies	26	0.05	0.5	23	0	Regeneration
Norway spruce (355) Picea abies	25	0.05	0.6	33	0	Competitor
Norway spruce (74) Picea abies	24	0.05	0.4	20	0	Competitor
Norway spruce (70) Picea abies	23	0.04	0.5	21	0	Competitor

Retention trees

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Norway spruce (40) Picea abies	58.5	0.27	4.1	249	3	Veteran tree
Norway spruce (292) Picea abies	57.5	0.26	4	226	4	Veteran tree
Norway spruce (491) Picea abies	56.5	0.25	4.6	247	0	Elite tree
Norway spruce (351) Picea abies	55	0.24	3.7	203	0	Veteran tree
Norway spruce (145) Picea abies	54.5	0.23	3.3	188	0	Elite tree
Norway spruce (218) Picea abies	54	0.23	3.3	187	0	Elite tree
Norway spruce (386) Picea abies	53.5	0.23	3.7	234	3	Elite tree
Norway spruce (296) Picea abies	52.5	0.22	3.3	187	0	Elite tree
Norway spruce (306) Picea abies	50.5	0.2	3	181	0	Elite tree
Norway spruce (269) Picea abies	47.5	0.18	2.7	149	0	Elite tree
Norway spruce (359) Picea abies	45.5	0.16	2.6	144	11	Elite tree
Norway spruce (324) Picea abies	45.5	0.16	2.5	136	0	Elite tree
Norway spruce (111) Picea abies	45	0.16	2	104	0	Elite tree
Norway spruce (57) Picea abies	44	0.15	1.8	95	0	Elite tree
Norway spruce (78) Picea abies	43.5	0.15	1.7	81	0	Habitat tree
Norway spruce (365) Picea abies	43	0.15	2	103	8	Habitat tree
Norway spruce (307) Picea abies	43	0.15	2.2	120	7	Habitat tree
Norway spruce (60) Picea abies	42.5	0.14	1.6	72	0	Elite tree
Norway spruce (452) Picea abies	42.5	0.14	2.2	109	19	Habitat tree
Norway spruce (497) Picea abies	42	0.14	1.7	90	8	Elite tree
Norway spruce (255)	41	0.13	1.9	106	0	Elite tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Picea abies						
Norway spruce (217) Picea abies	41	0.13	1.9	109	0	Elite tree
Norway spruce (86) Picea abies	41	0.13	1.7	90	0	Elite tree
Norway spruce (209) Picea abies	41	0.13	1.7	95	0	Elite tree
Norway spruce (138) Picea abies	40	0.13	1.6	83	0	Elite tree
Norway spruce (487) Picea abies	40	0.13	1.8	88	0	Elite tree
Norway spruce (303) Picea abies	39	0.12	1.7	96	0	Elite tree
Norway spruce (510) Picea abies	39	0.12	1.6	80	50	Habitat tree
Norway spruce (511) Picea abies	38.5	0.12	1.7	94	0	Elite tree
Norway spruce (432) Picea abies	38	0.11	1.5	86	3	Elite tree
Norway spruce (413) Picea abies	37	0.11	1.4	70	11	Habitat tree
Norway spruce (367) Picea abies	37	0.11	1.2	72	14	Habitat tree
Norway spruce (405) Picea abies	36	0.1	1.2	64	0	Elite tree
Norway spruce (172) Picea abies	35	0.1	1.2	67	16	Habitat tree
Norway spruce (323) Picea abies	34	0.09	1.3	73	0	Elite tree
Norway spruce (490) Picea abies	34	0.09	1.2	62	20	Habitat tree
Norway spruce (502) Picea abies	32	0.08	1.1	63	8	Habitat tree
Norway spruce (385) Picea abies	31.5	0.08	1	57	0	Habitat tree
Norway spruce (139) Picea abies	30	0.07	0.7	33	8	Habitat tree
Norway spruce (102) Picea abies	29	0.07	0.8	34	3	Habitat tree
Norway spruce (482) Picea abies	27.5	0.06	0.7	34	12	Habitat tree

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Norway spruce (193) Picea abies	25	0.05	0.5	19	0	Habitat tree
Norway spruce (477) Picea abies	24	0.05	0.6	24	5	Habitat tree
sycamore maple (338) Acer pseudoplatanus	22.5	0.04	0.4	11	16	Habitat tree
sycamore maple (337) Acer pseudoplatanus	22	0.04	0.3	8	16	Habitat tree
Norway spruce (309) Picea abies	22	0.04	0.4	13	9	Habitat tree
sycamore maple (24) Acer pseudoplatanus	21	0.04	0.4	10	12	Diversity
sycamore maple (415) Acer pseudoplatanus	21	0.04	0.4	9	12	Diversity
sycamore maple (416) Acer pseudoplatanus	19	0.03	0.3	7	12	Diversity
common beech (22) Fagus sylvatica	18.5	0.03	0.3	7	3	Diversity
sycamore maple (152) Acer pseudoplatanus	18	0.03	0.2	6	12	Diversity
silver fir (11) Abies alba	17.5	0.02	0.2	4	0	Diversity
sycamore maple (18) Acer pseudoplatanus	16	0.02	0.2	5	0	Diversity
sycamore maple (165) Acer pseudoplatanus	15	0.02	0.1	3	0	Diversity
sycamore maple (153) Acer pseudoplatanus	13	0.01	0.1	2	12	Diversity
sycamore maple (15) Acer pseudoplatanus	13	0.01	0.1	3	0	Diversity
sycamore maple (30) Acer pseudoplatanus	13	0.01	0.1	2	0	Diversity
sycamore maple (16) Acer pseudoplatanus	12	0.01	0.1	1	0	Diversity
sycamore maple (21) Acer pseudoplatanus	11.5	0.01	0.1	2	0	Diversity
sycamore maple (3) Acer pseudoplatanus	11	0.01	0.1	2	0	Diversity
sycamore maple (17) Acer pseudoplatanus	10	0.01	0	1	0	Diversity

Tree	DBH (cm)	Basal area (m ²)	Volume (m ³)	Economic value (€)	Habitat value (pts.)	Reason
Fagus sylvatica						
sycamore maple (5) Acer pseudoplatanus	9	0.01	0	1	0	Diversity
sycamore maple (26) Acer pseudoplatanus	9	0.01	0	1	0	Diversity
common beech (89) Fagus sylvatica	8	0.01	0	1	0	Diversity
sycamore maple (422) Acer pseudoplatanus	7.5	0	0	0	0	Diversity
sycamore maple (154) Acer pseudoplatanus	7.5	0	0	0	0	Diversity