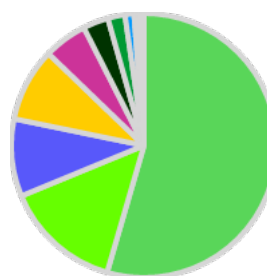


28/10/2021 Gr A mol

**Site conditions**

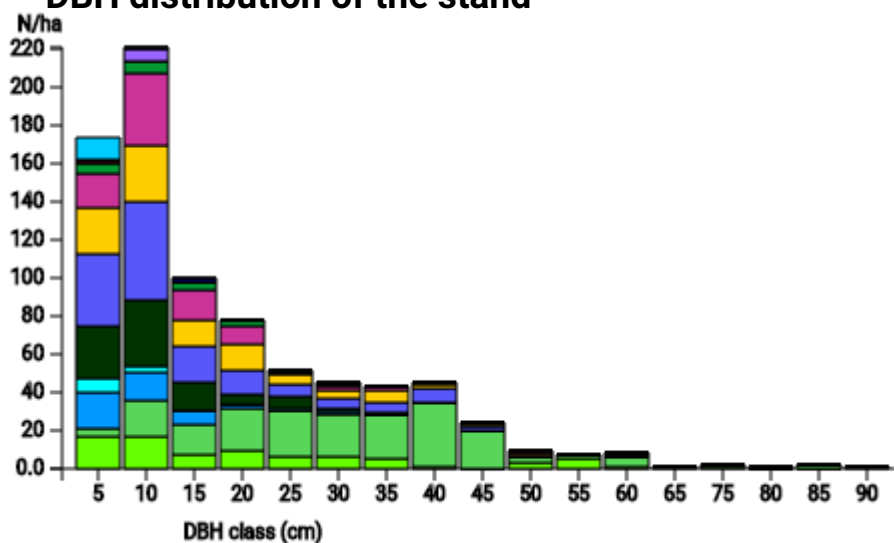
Altitude: 930 m.a.s.l.  
Forest ecological region: Molise  
Regional forest

**Tree species distribution by volume (in %)**



- Turkey oak: 54.6 %
- common beech: 14.3 %
- Italian maple: 9.5 %
- common ash: 9 %
- hornbeam: 5.3 %
- Lobels maple: 3.1 %
- small-leaved lime: 2.1 %
- sycamore maple: 1.1 %
- field maple: 0.6 %
- European hop-hornbeam: 0.4 %
- wild service tree: 0.1 %
- hazel: 0.1 %
- cornelian cherry: 0 %

**DBH distribution of the stand**



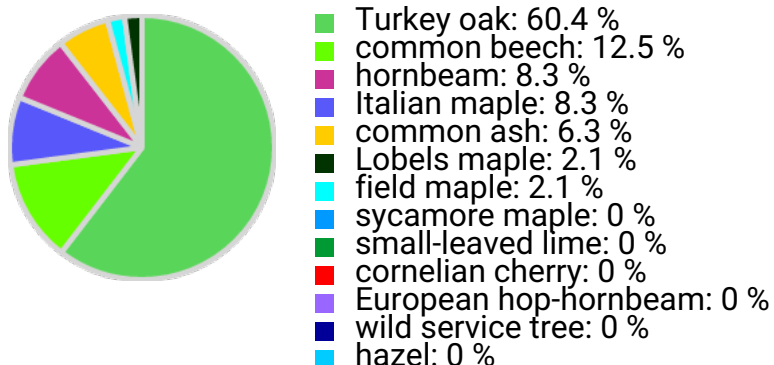
**Initial stand (details by tree species)**

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	9	0.2	1.4	41	8	1
Italian maple	148	4.4	36.4	948	2607	143
Lobels maple	90	1.7	12	312	996	60
Turkey oak	198	19.7	209.6	7019	6072	297
common ash	101	3.9	34.7	930	1606	79
common beech	80	6.1	54.9	1532	1392	77
cornelian cherry	1	0	0	0	24	1
field maple	15	0.3	2.3	60	278	14
hazel	12	0.1	0.2	6	30	1
hornbeam	91	2.2	20.2	601	742	40
small-leaved lime	22	0.9	8.1	195	207	11
sycamore maple	43	0.6	4	105	569	30
wild service tree	3	0.1	0.3	9	0	0
<b>Total</b>	<b>813</b>	<b>40.1</b>	<b>384.3</b>	<b>11760</b>	<b>14531</b>	<b>754</b>

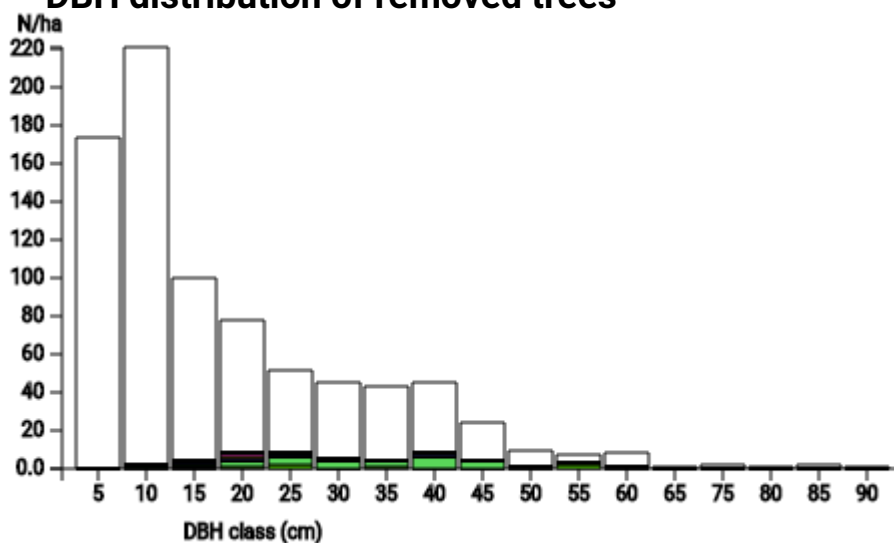
### Removed trees

Volume: 54.6 m<sup>3</sup>  
 Basal area: 4.9 m<sup>2</sup>  
 Economic value: 1735 €  
 Habitat value: 1042 pts.

### Removed trees (N in %)



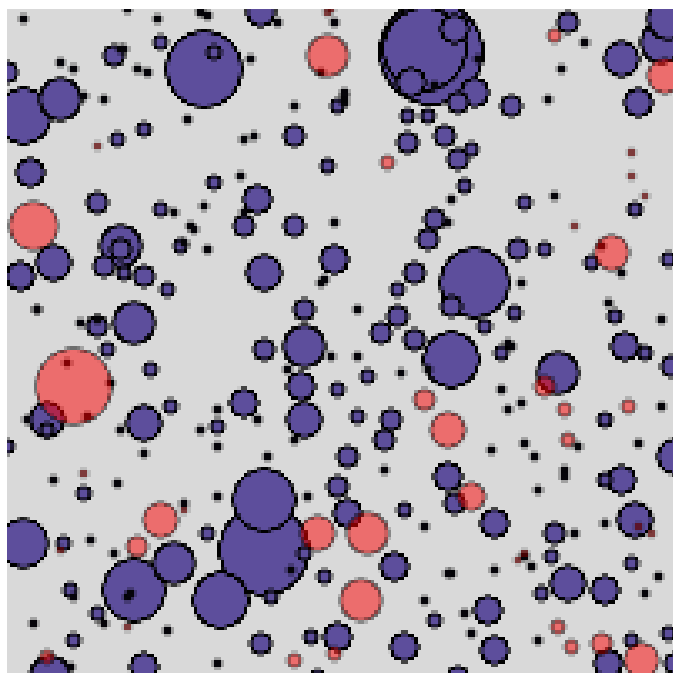
### DBH distribution of removed trees



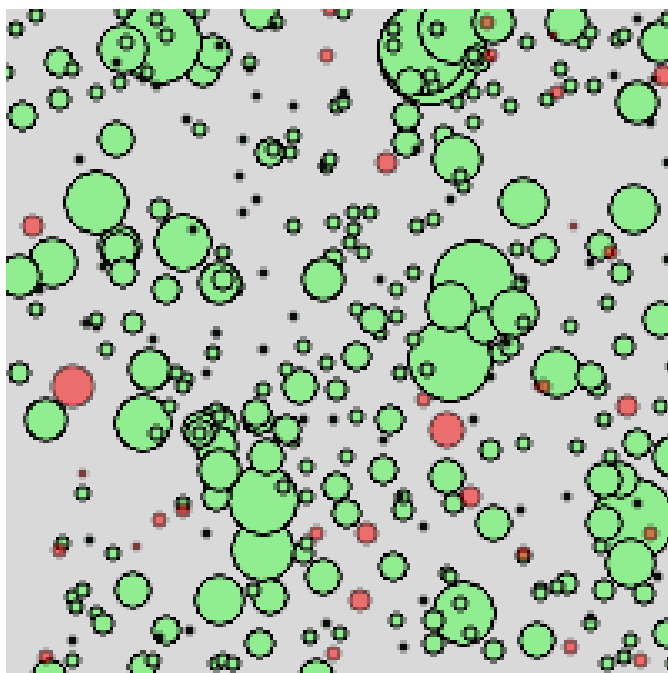
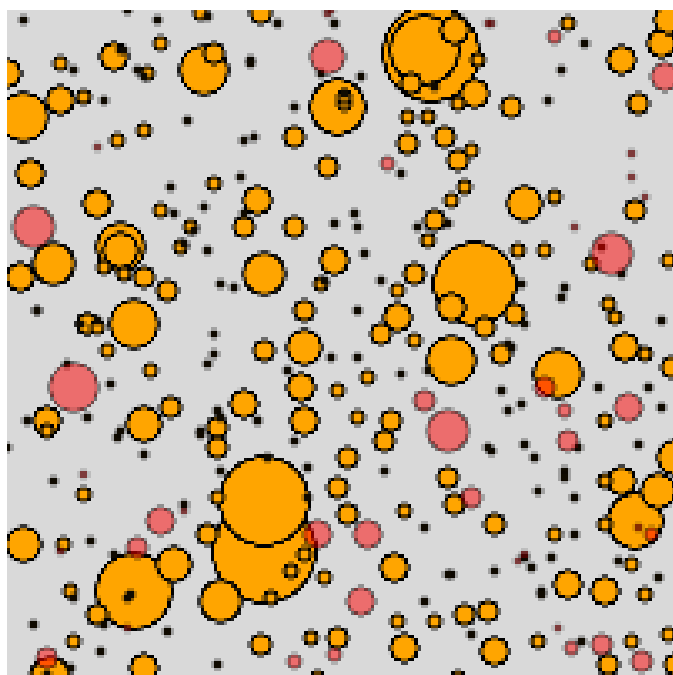
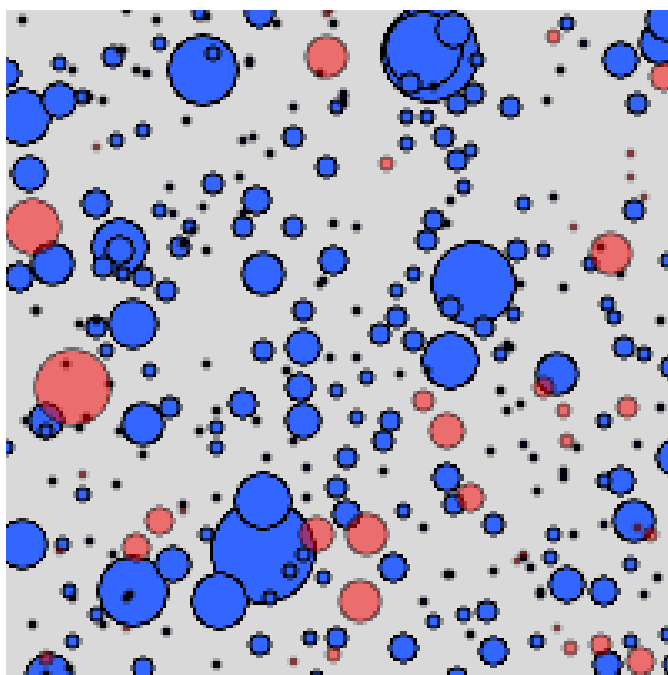
### Removed trees (details by tree species)

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	0	0	0	0	0	0
Italian maple	4	0.3	2.6	66	59	5
Lobels maple	1	0	0.2	5	27	2
Turkey oak	29	3.4	39	1305	717	37
common ash	3	0.3	2.3	62	80	5
common beech	6	0.8	8.9	250	143	10
cornelian cherry	0	0	0	0	0	0
field maple	1	0	0	1	8	1
hazel	0	0	0	0	0	0
hornbeam	4	0.1	1.5	45	8	1
small-leaved lime	0	0	0	0	0	0
sycamore maple	0	0	0	0	0	0
wild service tree	0	0	0	0	0	0
<b>Total</b>	<b>48</b>	<b>4.9</b>	<b>54.6</b>	<b>1735</b>	<b>1042</b>	<b>61</b>

Economic value [EUR]



Habitat value

Basal area [m<sup>2</sup>]Volume [m<sup>3</sup>]**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.

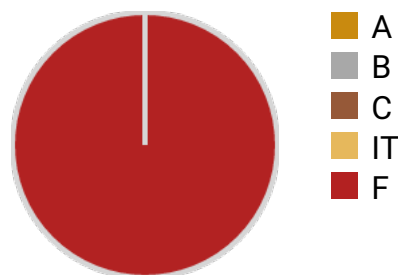
### Economic values

Total value of removed trees: 1735 €  
 Percentage of total stand value: 14.7 %  
 Stand value after harvest: 10026 €

### Economic value by tree species [€]

Tree species	Total	Per m <sup>3</sup>
common beech	250	28
Turkey oak	1305	33
sycamore maple	0	0
field maple	1	26
Lobels maple	5	26
Italian maple	66	26
common ash	62	27
hornbeam	45	30
small-leaved lime	0	0
cornelian cherry	0	0
European hop-hornbeam	0	0
wild service tree	0	0
hazel	0	0
Total	1735	32

### Wood quality distribution (m<sup>3</sup> in %)



Quality class	m <sup>3</sup>	%
A	0	0
B	0	0
C	0	0
Industrial Timber	0	0
Fuelwood	54.6	100

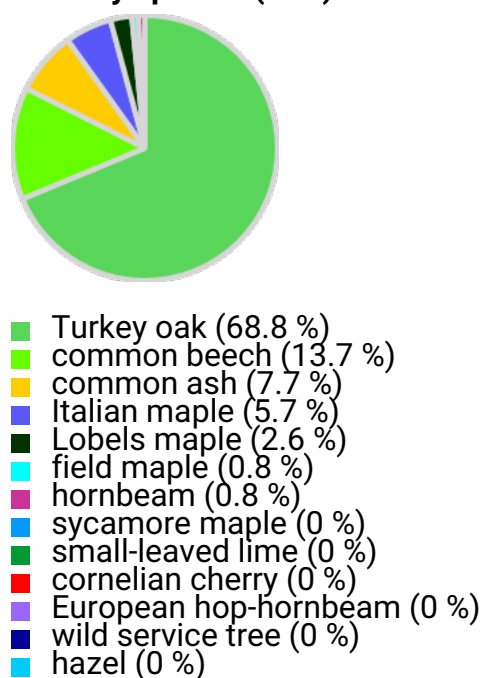
### Habitat values

Total habitat value of removed trees: 1042 pts.  
 Percentage of total stand value: 7.2 %  
 Stand value after harvest: 13489 pts.

### Habitat value by tree species [pts.]

Tree species	Total	Per m <sup>3</sup>	Microhabitats [N]
common beech	143	16	10
Turkey oak	717	18.4	37
sycamore maple	0	0	0
field maple	8	204.1	1
Lobels maple	27	137.3	2
Italian maple	59	23.1	5
common ash	80	34.4	5
hornbeam	8	5.3	1
small-leaved lime	0	0	0
cornelian cherry	0	0	0
European hop-hornbeam	0	0	0
wild service tree	0	0	0
hazel	0	0	0
Total	1042	19.1	61

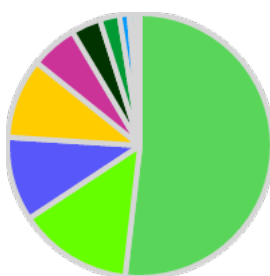
### Habitat value (points) of removed trees by species (in %)



### Remaining stand

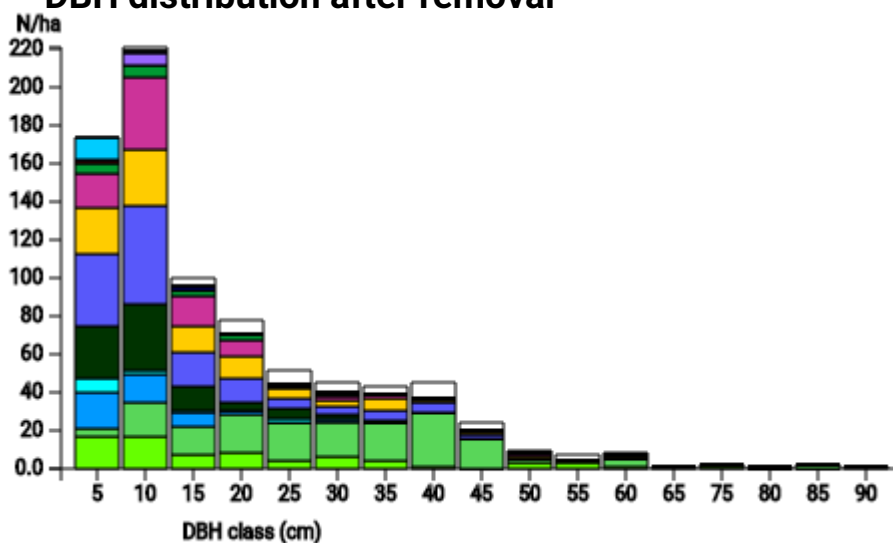
Volume: 330.2 m<sup>3</sup>  
 Basal area: 36 m<sup>2</sup>  
 Economic value: 10026 €  
 Habitat value: 13489 pts.

### Remaining trees by volume (m<sup>3</sup> in %)



- Turkey oak: 51.8 %
- common beech: 13.9 %
- Italian maple: 10.3 %
- common ash: 9.8 %
- hornbeam: 5.7 %
- Lobels maple: 3.6 %
- small-leaved lime: 2.4 %
- sycamore maple: 1.2 %
- field maple: 0.7 %
- European hop-hornbeam: 0.4 %
- wild service tree: 0.1 %
- hazel: 0.1 %
- cornelian cherry: 0 %

### DBH distribution after removal



### Remaining stand (details by tree species)

Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	9	0.2	1.4	41	8	1
Italian maple	144	4.1	33.8	881	2548	138
Lobels maple	89	1.6	11.8	307	969	58
Turkey oak	169	16.3	170.7	5714	5355	260
common ash	98	3.7	32.4	868	1526	74
common beech	74	5.3	46	1282	1249	67
cornelian cherry	1	0	0	0	24	1
field maple	14	0.3	2.3	59	270	13
hazel	12	0.1	0.2	6	30	1
hornbeam	87	2	18.7	556	734	39
small-leaved lime	22	0.9	8.1	195	207	11
sycamore maple	43	0.6	4	105	569	30
wild service tree	3	0.1	0.3	9	0	0
<b>Total</b>	<b>765</b>	<b>35.2</b>	<b>329.8</b>	<b>10025</b>	<b>13489</b>	<b>693</b>

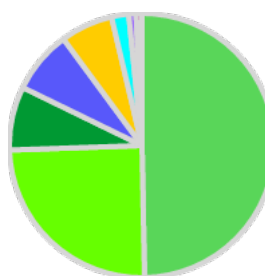
**Retention trees**Volume: 50 m<sup>3</sup>

Elite trees: 16

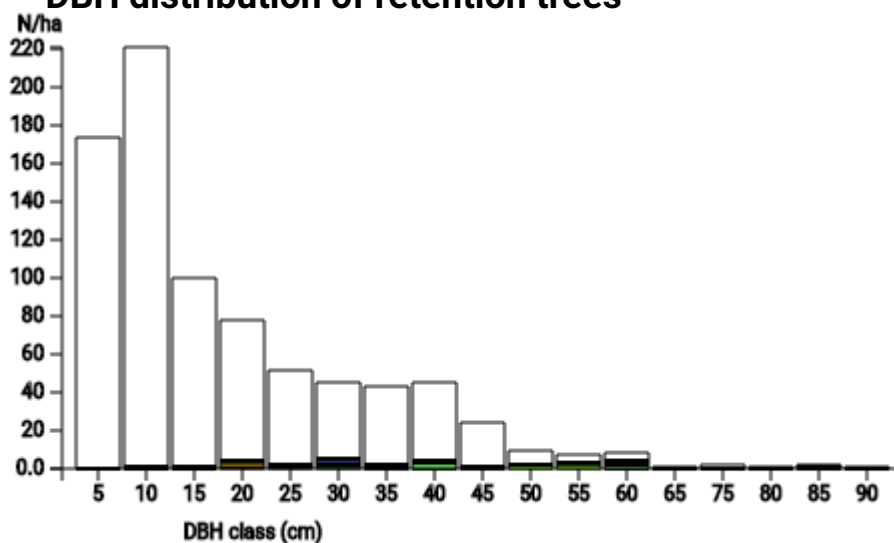
Habitat trees: 8

Economic value: 1506 €

Habitat value: 2011 pts.

**Retention trees by volume (m<sup>3</sup> in %)**

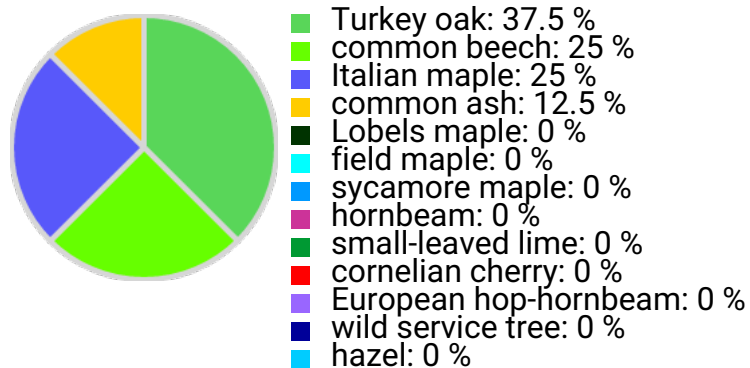
Turkey oak: 49.8 %
common beech: 24.8 %
small-leaved lime: 7.8 %
Italian maple: 7.7 %
common ash: 6.4 %
field maple: 2.1 %
European hop-hornbeam: 0.9 %
hornbeam: 0.7 %
Lobels maple: 0 %
sycamore maple: 0 %
cornelian cherry: 0 %
wild service tree: 0 %
hazel: 0 %

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

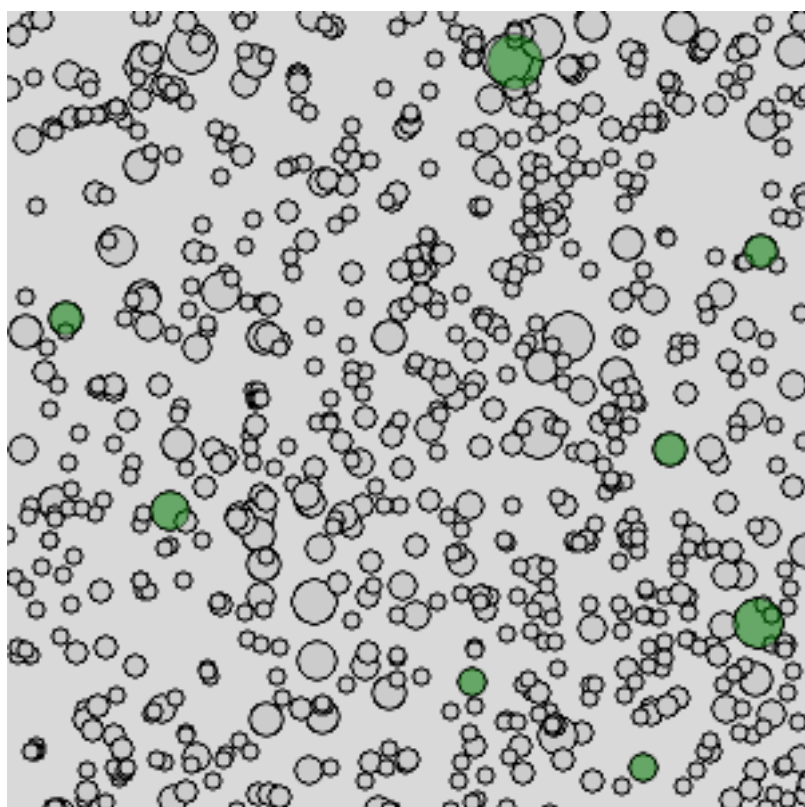
Tree species	N/ha	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Microhabitats (N)
European hop-hornbeam	1	0	0.4	12	0	0
Italian maple	4	0.4	3.8	100	264	13
Lobels maple	0	0	0	0	0	0
Turkey oak	10	2.2	24.9	832	990	41
common ash	3	0.4	3.2	86	206	11
common beech	7	1.1	12.4	346	388	18
cornelian cherry	0	0	0	0	0	0
field maple	1	0.1	1	27	80	4
hazel	0	0	0	0	0	0
hornbeam	1	0	0.3	10	0	0
small-leaved lime	3	0.4	3.9	94	83	5
sycamore maple	0	0	0	0	0	0
wild service tree	0	0	0	0	0	0
Total	30	4.7	50	1506	2011	92

Number of habitat trees	[N]	8
Habitat value	pts.	958
	[% of total]	6.6
Economic value	[€]	624
	[% of total]	5.3
Number of microhabitats	[N]	44
	[% of total]	5.8

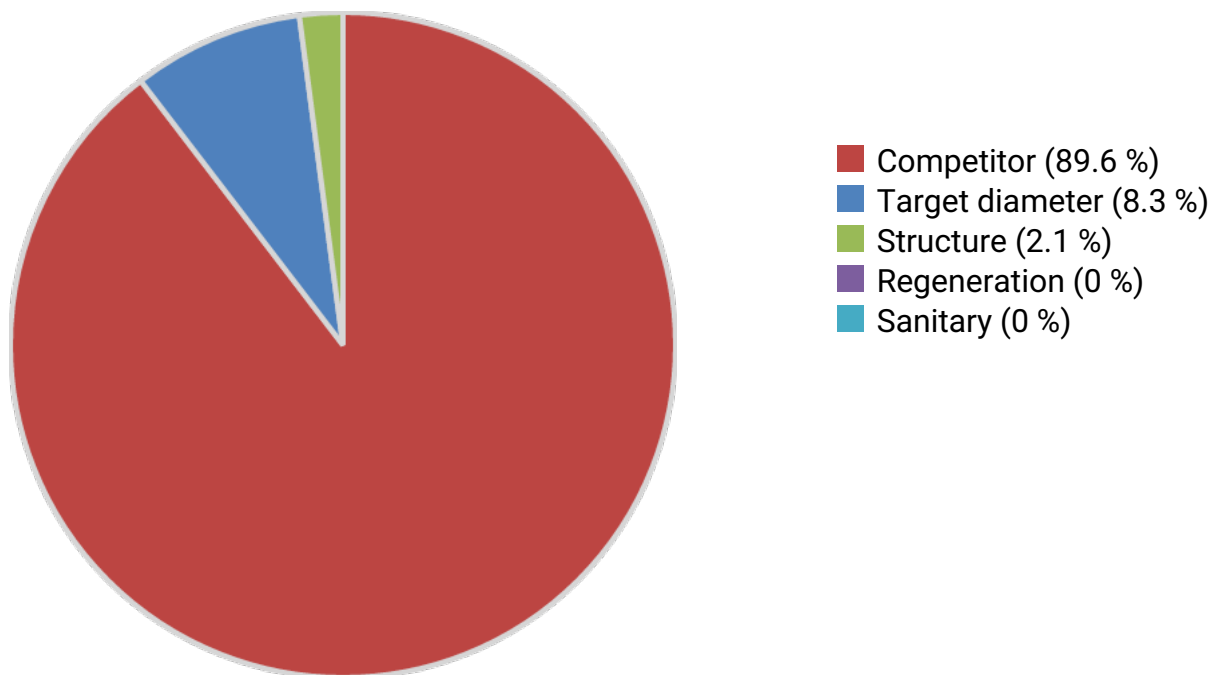
### Habitat tree distribution by species (N in %)



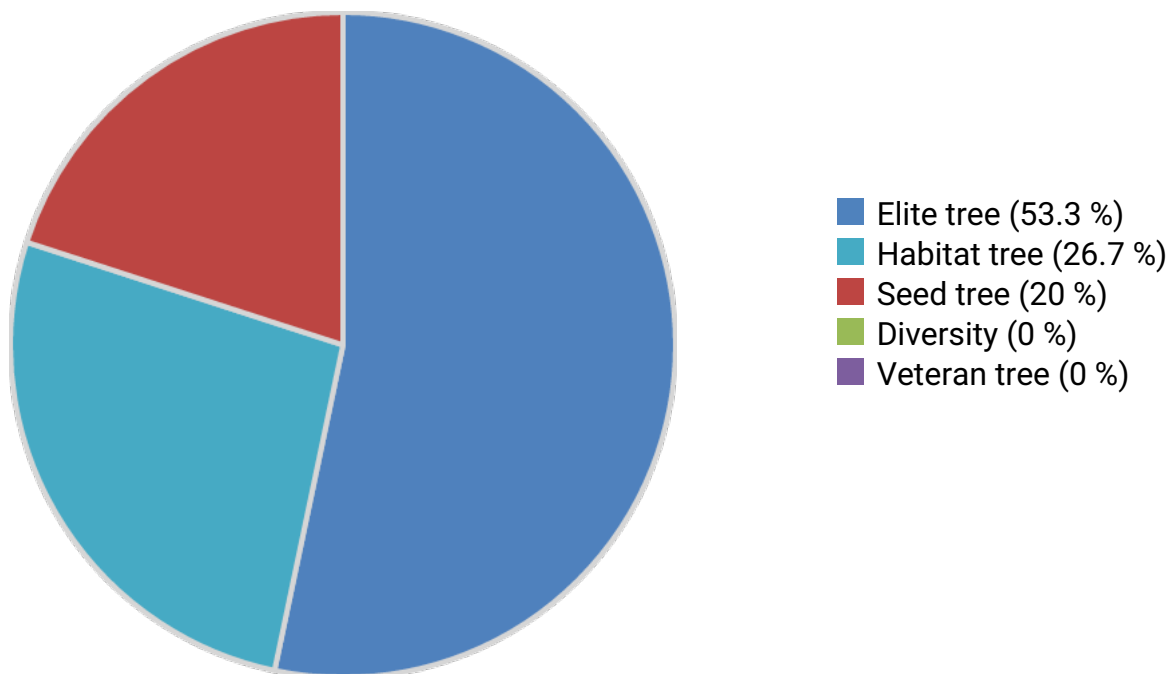
### Spatial distribution of habitat trees



### Reasons for removal

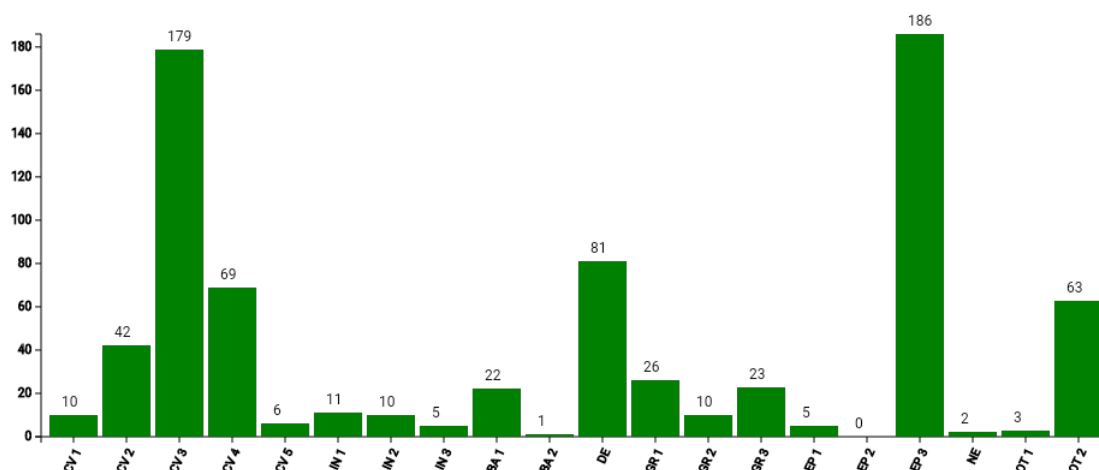


### Reasons for retention

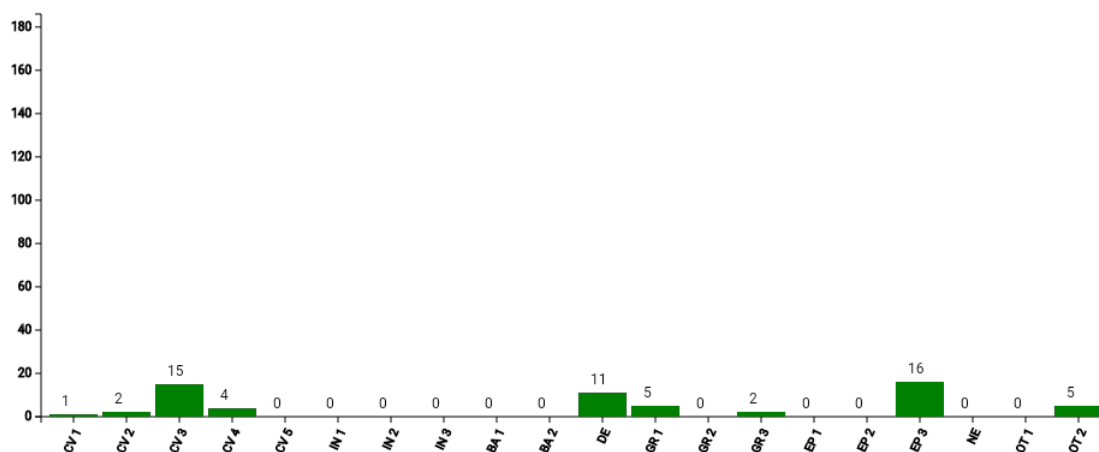




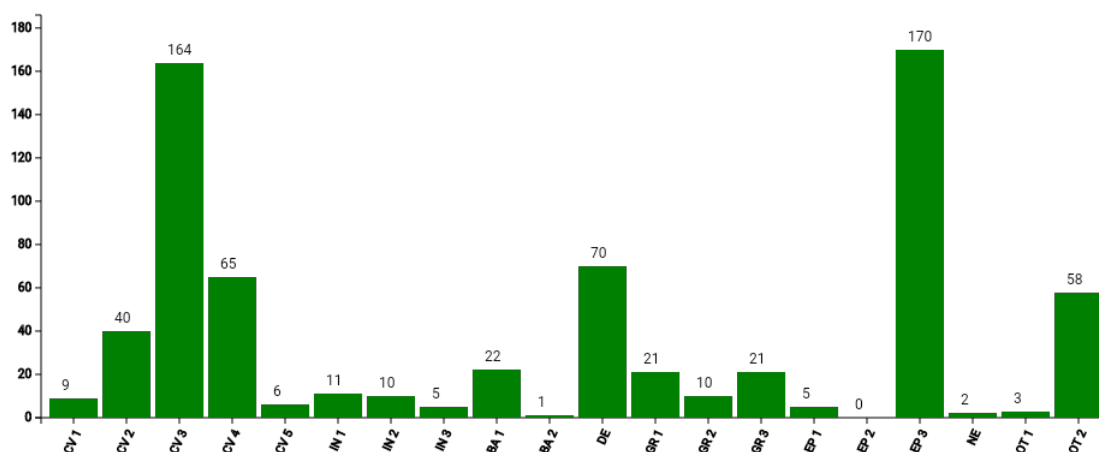
### Distribution of tree microhabitats by code (N total)



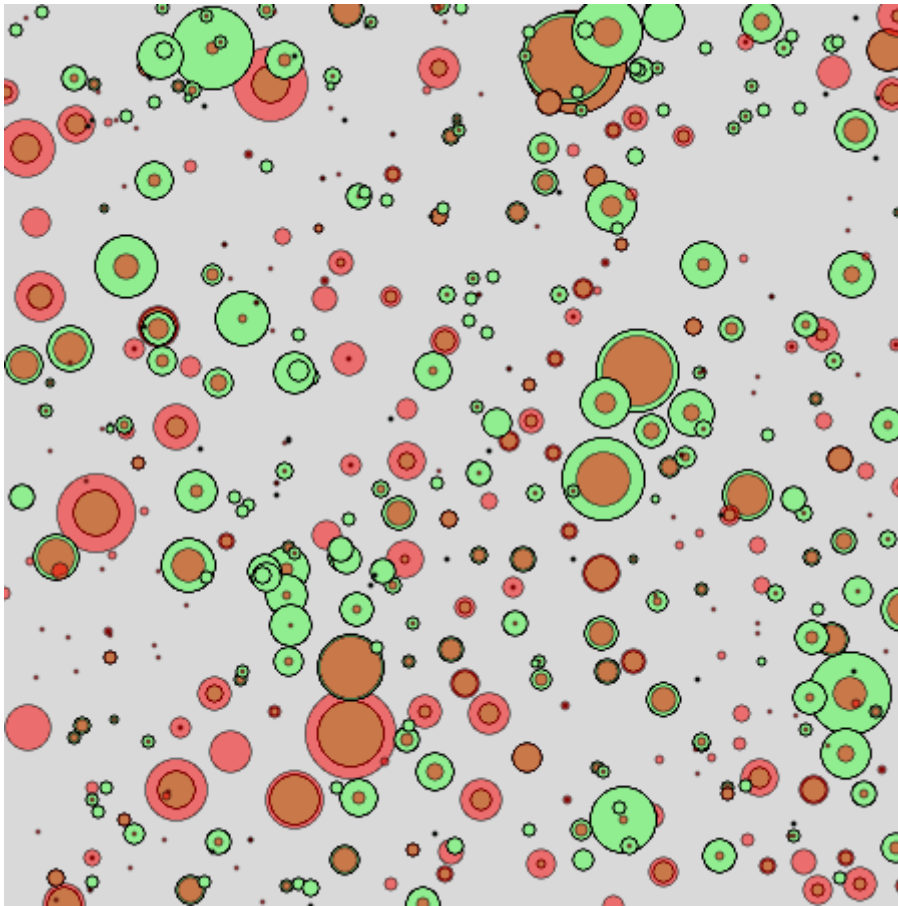
### Removed tree microhabitats by code (N removed)



### 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 <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Turkey oak (68) [REPLACE_DEAD]Quercus cerris	63	0.31	4.8	161	94	Competitor
common beech (681) [REPLACE_DEAD]Fagus sylvatica	58	0.26	2.6	74	30	Competitor
common beech (115) [REPLACE_DEAD]Fagus sylvatica	57.5	0.26	3.6	100	51	Competitor
Turkey oak (534) [REPLACE_DEAD]Quercus cerris	55	0.24	2.4	79	67	Target diameter
Turkey oak (234) [REPLACE_DEAD]Quercus cerris	54	0.23	2.7	90	32	Competitor
Turkey oak (439) [REPLACE_DEAD]Quercus cerris	49.5	0.19	2.5	84	46	Target diameter
Turkey oak (436) [REPLACE_DEAD]Quercus cerris	49	0.19	2.5	84	43	Competitor
Turkey oak (763) [REPLACE_DEAD]Quercus cerris	47	0.17	2	67	42	Competitor
Turkey oak (387) [REPLACE_DEAD]Quercus cerris	46	0.17	2	66	35	Competitor
Turkey oak (361) [REPLACE_DEAD]Quercus cerris	44	0.15	2.1	69	24	Target diameter
common ash (660) [REPLACE_DEAD]Fraxinus excelsior	44	0.15	1.3	34	50	Competitor
Turkey oak (487) [REPLACE_DEAD]Quercus cerris	43.5	0.15	2	67	24	Competitor
Turkey oak (511) [REPLACE_DEAD]Quercus cerris	43	0.15	1.6	55	44	Target diameter
Italian maple (35) [REPLACE_DEAD]Acer opalus	42	0.14	1.8	46	11	Competitor
Turkey oak (577) [REPLACE_DEAD]Quercus cerris	42	0.14	0.9	31	0	Competitor
Turkey oak (603) [REPLACE_DEAD]Quercus cerris	42	0.14	1.4	47	24	Competitor
Turkey oak (463) [REPLACE_DEAD]Quercus cerris	42	0.14	1.5	49	0	Competitor
common beech (5) [REPLACE_DEAD]Fagus sylvatica	39	0.12	1.1	31	36	Competitor
Turkey oak (547) [REPLACE_DEAD]Quercus cerris	38	0.11	1.2	39	24	Competitor
Turkey oak (793) [REPLACE_DEAD]Quercus cerris	36	0.1	0.9	31	42	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Turkey oak (602) [REPLACE_DEAD]Quercus cerris	35	0.1	0.9	30	0	Structure
Turkey oak (466) [REPLACE_DEAD]Quercus cerris	34	0.09	1	33	24	Competitor
Turkey oak (743) [REPLACE_DEAD]Quercus cerris	34	0.09	0.9	32	8	Competitor
Turkey oak (370) [REPLACE_DEAD]Quercus cerris	33.5	0.09	1.1	35	24	Competitor
common ash (651) [REPLACE_DEAD]Fraxinus excelsior	32	0.08	0.7	18	30	Competitor
Turkey oak (374) [REPLACE_DEAD]Quercus cerris	30	0.07	0.7	22	0	Competitor
Turkey oak (386) [REPLACE_DEAD]Quercus cerris	27.5	0.06	0.6	22	24	Competitor
common beech (38) [REPLACE_DEAD]Fagus sylvatica	27	0.06	0.6	18	26	Competitor
Turkey oak (468) [REPLACE_DEAD]Quercus cerris	27	0.06	0.7	22	0	Competitor
hornbeam (71) [REPLACE_DEAD]Carpinus betulus	27	0.06	0.6	17	8	Competitor
Turkey oak (596) [REPLACE_DEAD]Quercus cerris	27	0.06	0.5	18	0	Competitor
Italian maple (712) [REPLACE_DEAD]Acer opalus	26	0.05	0.4	12	12	Competitor
Turkey oak (231) [REPLACE_DEAD]Quercus cerris	26	0.05	0.6	21	36	Competitor
common beech (693) [REPLACE_DEAD]Fagus sylvatica	26	0.05	0.6	16	0	Competitor
common ash (26) [REPLACE_DEAD]Fraxinus excelsior	24	0.05	0.4	10	0	Competitor
Turkey oak (230) [REPLACE_DEAD]Quercus cerris	24	0.05	0.5	17	0	Competitor
hornbeam (140) [REPLACE_DEAD]Carpinus betulus	22.5	0.04	0.4	13	0	Competitor
common beech (692) [REPLACE_DEAD]Fagus sylvatica	22	0.04	0.4	11	0	Competitor
Turkey oak (498) [REPLACE_DEAD]Quercus cerris	21.5	0.04	0.5	15	36	Competitor
Turkey oak (500)	20.5	0.03	0.3	9	0	Competitor

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
[REPLACE_DEAD]Quercus cerris						
hornbeam (691) [REPLACE_DEAD]Carpinus betulus	20	0.03	0.3	10	0	Competitor
Italian maple (807) [REPLACE_DEAD]Acer opalus	20	0.03	0.2	5	0	Competitor
Italian maple (808) [REPLACE_DEAD]Acer opalus	19	0.03	0.2	4	36	Competitor
Turkey oak (738) [REPLACE_DEAD]Quercus cerris	17	0.02	0.2	7	24	Competitor
Lobels maple (736) [REPLACE_DEAD]Acer lobelii	17	0.02	0.2	5	27	Competitor
hornbeam (72) [REPLACE_DEAD]Carpinus betulus	16	0.02	0.2	5	0	Competitor
Turkey oak (467) [REPLACE_DEAD]Quercus cerris	13	0.01	0.1	3	0	Competitor
field maple (604) [REPLACE_DEAD]Acer campestre	10.5	0.01	0	1	8	Competitor

## Retention trees

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
Turkey oak (811) [REPLACE_DEAD]Quercus cerris	87	0.59	6.5	217	222	Habitat tree
common ash (595) [REPLACE_DEAD]Fraxinus excelsior	64	0.32	2.5	67	179	Habitat tree
small-leaved lime (153) [REPLACE_DEAD]Tilia cordata	63	0.31	3.7	88	83	Seed tree
Turkey oak (551) [REPLACE_DEAD]Quercus cerris	61.5	0.3	3.5	116	180	Elite tree
Turkey oak (605) [REPLACE_DEAD]Quercus cerris	60	0.28	2.5	84	107	Habitat tree
Turkey oak (377) [REPLACE_DEAD]Quercus cerris	59	0.27	3.5	118	109	Elite tree
common beech (4) [REPLACE_DEAD]Fagus sylvatica	58.5	0.27	3.1	86	68	Seed tree
common beech (88) [REPLACE_DEAD]Fagus sylvatica	58	0.26	2.6	74	100	Habitat tree
common beech (656) [REPLACE_DEAD]Fagus sylvatica	52	0.21	2.4	66	96	Seed tree
common beech (98) [REPLACE_DEAD]Fagus sylvatica	51.5	0.21	2.6	72	116	Habitat tree
Turkey oak (22) [REPLACE_DEAD]Quercus cerris	46	0.17	1.5	52	60	Seed tree
Turkey oak (416) [REPLACE_DEAD]Quercus cerris	44	0.15	1.8	59	60	Habitat tree
Turkey oak (509) [REPLACE_DEAD]Quercus cerris	42	0.14	1.5	51	67	Elite tree
Turkey oak (464) [REPLACE_DEAD]Quercus cerris	41	0.13	1.7	57	24	Elite tree
Italian maple (697) [REPLACE_DEAD]Acer opalus	40	0.13	1.2	31	102	Habitat tree
Turkey oak (694) [REPLACE_DEAD]Quercus cerris	39	0.12	1.6	53	87	Elite tree
Italian maple (37) [REPLACE_DEAD]Acer opalus	35	0.1	1.1	29	36	Elite tree
Italian maple (469) [REPLACE_DEAD]Acer opalus	34	0.09	0.8	21	72	Habitat tree
field maple (139) [REPLACE_DEAD]Acer campestre	33	0.09	1	27	80	Elite tree
Italian maple (803) [REPLACE_DEAD]Acer opalus	32	0.08	0.7	19	54	Seed tree
Turkey oak (371)	31	0.08	0.8	27	74	Elite tree

Tree	DBH (cm)	Basal area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Economic value (€)	Habitat value (pts.)	Reason
[REPLACE_DEAD]Quercus cerris						
common beech (683) [REPLACE_DEAD]Fagus sylvatica	31	0.08	0.9	24	8	Seed tree
common beech (235) [REPLACE_DEAD]Fagus sylvatica	26	0.05	0.5	14	0	Elite tree
European hop-hornbeam (223) [REPLACE_DEAD]Ostrya carpinifolia	25	0.05	0.4	12	0	Elite tree
common beech (78) [REPLACE_DEAD]Fagus sylvatica	22	0.04	0.3	10	0	Elite tree
common ash (750) [REPLACE_DEAD]Fraxinus excelsior	21	0.04	0.3	8	27	Elite tree
hornbeam (233) [REPLACE_DEAD]Carpinus betulus	21	0.04	0.3	10	0	Elite tree
common ash (62) [REPLACE_DEAD]Fraxinus excelsior	20	0.03	0.4	11	0	Elite tree
small-leaved lime (790) [REPLACE_DEAD]Tilia cordata	18	0.03	0.1	3	0	Elite tree
small-leaved lime (791) [REPLACE_DEAD]Tilia cordata	14.5	0.02	0.1	2	0	Elite tree