

## **Annex 1. ACTUAL VEGETATION IN THE COMMUNE PUCHACZÓW**

In order to identify the actual vegetation in the Puchaczów commune, the authors took 114 phytosociological relevés using the Braun-Blanquet method in the years 2019-2021 [relevé table]. The results of the research made it possible to identify the plant cover and classify phytocoenoses, which provided the basis for a complete floristic analysis. In the described area, 26 plant communities were distinguished. These communities belong to 10 phytosociological classes and represent 17 orders and 20 associations. A detailed classification showing the list of communities and communities is presented below:

### **Class: Stellarietea mediae R.Tx., Lohm. et Prsg 1950**

Order: Centauretalia cyanii R.Tx. 1950

Alliance: Aperion spicae-venti R.Tx. et J.Tx. 1960

1. Ass. Scleranthus annuus

Order: Polygono-Chenopodietalia (R.Tx. et Lohm. 1950) J.Tx. 1961

Alliance: Polygono-Chenopodium Siss. 1946

2. Lamio-Veronicetum politae Kornaś 1950

3. Galinsogo-Setarietum (R.Tx. et Beck. 1942) R.Tx. 1950

Order: Sisymbrietalia J.Tx. 1961

Alliance: Sisymbrium officinalis R. Tx., Lohm. et Prsg 1950

4. Sisymbrietum loeselii Gutte in Rost. et Gutte 1971 em. Eliaš 1979

5. Hordeetum murini Libb. 1933

6. Urtico-Malvetum neglectae (Knapp 1945) Lohm. 1950

### **Class: Epilobietea angustifolii R.Tx. et Prsg 1950**

Order: Atropetalia Vlieg. 1937

Alliance: Epilobion angustifolii (Rübel 1933) Soó 1933

7. Calamagrostietum epigeji Juraszek 1928

Alliance: Sambuco-Salicion R.Tx. et Neum. 1950

8. Sambacetum nigrae Oberd. 1973

### **Class: Artemisietea vulgaris Lohm., Prsg et R. Tx. in R.Tx. 1950**

Order: Onopordetalia acanthii Br.-Bl. et R.Tx. 1943 em. Görs. 1966

Alliance: Daucō-Melilotenion Görs 1966

9. Artemisio-Tanacetetum vulgaris Br.-Bl. 1931 corr. 1949

Order: Artemisietalia vulgaris Lohm. in R.Tx. 1947  
Alliance: Arction lappae R.Tx. 1937 em. 1950  
10. Arctio-Artemisietum vulgaris Oberd. ex Seybold et Müller 1972

Order: Convolvuletalia sepium R.Tx. 1950  
Alliance: Senecion fluviatilis R.Tx. (1947) 1950 em. R.Tx. 1967  
11. Rudbeckio-Solidaginetum R.Tx. et Raabe 1950

**Class: Agropyretea intermedio-repentis (Oberd. et all. 1967) Müller et Görs 1969**

Order: Agropyretalia intermedio-repentis (Oberd. et all. 1967) Müller et Görs 1969  
Alliance: Convolvulo-Agropyrrion repentis Görs 1966  
12. Convolvulo arvensis-Agropyretum repentis Felföldy 1943

**Class: Phragmitetea R. Tx. et Prsg 1942**

Order: Phragmitetalia Koch 1926  
Alliance: Phragmition Koch 1926  
13. Phragmitetum australis (Gams 1927) Schmale 1939  
14. Typhetum latifoliae Soó 1927  
15. Glycerietum maximae Hueck 1931

**Class: Molinio-Arrhenatheretea R.Tx. 1937**

Order: Plantaginetalia majoris R.Tx. (1943) 1950  
Alliance: Polygonion avicularis Br.-Bl. 1931 ex Aich. 1933  
16. Lollio-Polygonetum arenastri Br-Bl. 1930 em. Lohm. 1975

Order: Molinieta caeruleae W. Koch 1926  
Alliance: Filipendulion ulmariae Segal 1966  
17. Filipendulo-Geranietum W.Koch 1926

Alliance: Molinion caeruleae W. Koch 1926  
18. Molinetum caeruleae W.Koch 1926

Order: Arrhenatheretalia Pawł. 1928  
Alliance: Arrhenatherion elatioris (Br.-Bl. 1925) Koch 1926  
19. Arrhenatheretum elatioris Br.-Bl. ex Scherr. 1925  
20. Ass. Poa pratensis-Festuca rubra Fijałk. 1962

Alliance: Cynosurion R.Tx. 1947  
21. Lollio-Cynosuretum R.Tx. 1937

**Class: Rhamno-Prunetea Rivas Goday et Garb. 1961**

Order: Prunetalia spinosae R.Tx. 1952

Alliance: Pruno-Rubion fruticosi R.Tx. 1952 corr. Doing 1962

22. Rubo fruticosi-Prunetum spinosae Web. 1974 n.inv. Wittig

**Class: Alnetea glutinosae Br.-Bl. et R.Tx. 1943**

Order: Alnetalia glutinosae R.Tx. 1937

Alliance: Alnion glutinosae (Malc. 1929) Meijer Drees 1936

23. Ribeso nigri-Alnetum Sol.-Górn. (1975) 1987

**Class: Vaccinio-Piceetea Br.-Bl. 1939**

Order: Cladonio-Vaccinietalia Kiell.-Lund 1967

Alliance: Dicrano-Pinion W.Mat. 1962

24. Querco roboris-Pinetum (W.Mat. 1981) J.Mat. 1988

**Class: Querco-Fagetea Br.-Bl. et Vlieg. 1937**

Order: Quercetalia pubescenti-petraeae Klika 1933 corr. Moravec in Beg. et Theurill 1984

Alliance: Potentillo albae-Quercion petraeae Zol. et Jakucs n.nov. Jakucs 1967

25. Potentillo albae-Quercetum petraeae Libb. 1933

Order: Fagetales sylvaticae Pawł. in Pawł., Sokoł. et Wall. 1928

Alliance: Carpinion betuli Issl. 1931 em. Oberd. 1953

26. Tilio-Carpinetum Tracz. 1962

**Relevé table.** List of plant communities [comp. own 2022]

1 - Ass. *Scleranthus annuus*; 2 - *Lamio-Veronicetum politae*

| Community number                   | 1        |          | 2        |          |          |          |          |          |          |          |     |
|------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| Relevé number in table             | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       |     |
| Relevé number                      |          | 61       | 62       | 6        | 8        | 28       | 29       | 60       | 63       | 111      | 112 |
| Cover tree<br>and shrubs layer [%] |          | -        | -        | -        | -        | -        | -        | -        | -        | -        | -   |
| Cover layer herb layer [%]         |          | 50       | 60       | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100 |
| Area [m <sup>2</sup> ]             | 4        | 6        | 10       | 10       | 15       | 10       | 10       | 10       | 10       | 10       | 10  |
| Date                               | 28.06.20 | 28.06.20 | 11.08.19 | 11.08.19 | 25.08.19 | 25.08.19 | 28.06.20 | 28.06.20 | 18.04.21 | 18.04.21 | 10  |
| Number of species                  | 4        | 4        | 10       | 7        | 9        | 9        | 7        | 11       | 10       | 10       | 10  |

I. Ch: a-*Stellarietea mediae*; b-*Centauretalia cyanii*; c-*Aperion spicae-venti*;  
d-*Polygono-Chenopodietalia*; e -*Polygono-Chenopodion*

|                                 |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|
| a <i>Anagallis arvensis</i>     | + | . | . | . | + | . | . | . | . | . |
| a <i>Myosotis arvensis</i>      | . | . | + | + | . | . | . | . | . | + |
| a <i>Polygonum aviculare</i>    | . | . | . | . | + | . | . | . | + | . |
| a <i>Stellaria media</i>        | + | . | + | . | . | + | 1 | . | . | . |
| a <i>Viola arvensis</i>         | . | . | . | . | + | . | . | . | . | . |
| b <i>Lolium temulentum</i>      | . | . | . | . | + | . | . | . | + | . |
| c <i>Scleranthus annuus</i>     | 1 | + | . | . | . | . | . | . | . | . |
| c <i>Apera spica-venti</i>      | + | + | + | + | + | . | . | + | + | . |
| c <i>Vicia angustifolia</i>     | . | + | . | . | . | . | . | . | . | + |
| d <i>Echinochloa crus-galli</i> | . | . | . | . | + | + | + | + | . | . |
| d <i>Geranium pusillum</i>      | . | . | + | + | + | . | . | . | + | + |
| e <i>Lamium amplexicaule</i>    | . | . | + | + | . | . | . | + | . | + |
| e <i>Lamium purpureum</i>       | . | . | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 1 |
| e <i>Sonchus oleraceus</i>      | . | . | . | . | + | + | + | . | . | . |
| e <i>Veronica agrestis</i>      | . | . | 4 | 3 | 2 | 5 | 3 | 3 | 3 | 2 |
| e <i>Veronica polita</i>        | . | . | . | . | + | . | . | . | . | + |

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| II. Ch: <i>Molinio-Arrhenatheretea</i>  |   |   |   |   |   |   |   |   |   |
| <i>Poa pratensis</i>  | . | . | . | . | . | + | . | + | + |
| <i>Festuca rubra</i>  | . | . | . | . | + | . | . | . | . |
| <i>Trifolium pratense</i>   | . | . | . | . | . | . | . | + | + |
| III. Ch: <i>Artemisietea vulgaris</i>   |   |   |   |   |   |   |   |   |   |
| <i>Urtica dioica</i>  | . | . | + | . | . | + | + | . | . |
| <i>Artemisia vulgaris</i>   | . | . | . | . | . | . | + | + | + |
| IV. Ch: <i>Agropyretea intermedio-repentis</i>  |   |   |   |   |   |   |   |   |   |
| <i>Convolvulus arvensis</i>   | . | . | . | + | + | . | . | . | . |
| <i>Poa angustifolia</i>   | . | . | + | . | . | . | + | + | . |
| V. Other:   |   |   |   |   |   |   |   |   |   |
| <i>Polygonum persicaria</i>   | . | . | . | . | + | + | . | . | + |
| <i>Conyza canadensis</i>  | . | + | + | . | . | . | + | . | . |
| Occasional species: IV- <i>Bromus inermis</i> +/III; Ia- <i>Veronica arvensis</i> +/9;<br>III- <i>Taraxacum officinale</i> +/10 |   |   |   |   |   |   |   |   |   |

### 3 - *Galinsogo-Setarietum*

| Community number                | 3        |          |          |          |          |          |
|---------------------------------|----------|----------|----------|----------|----------|----------|
| Relevé number in table          | 1        | 2        | 3        | 4        | 5        | 6        |
| Relevé number                   | 9        | 32       | 54       | 71       | 82       | 109      |
| Cover tree and shrubs layer [%] | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]      | 100      | 100      | 90       | 100      | 90       | 90       |
| Area [m <sup>2</sup> ]          | 10       | 10       | 10       | 10       | 10       | 10       |
| Date                            | 11.08.19 | 25.08.19 | 28.06.20 | 08.08.20 | 30.08.20 | 18.04.21 |
| Number of species               | 11       | 7        | 10       | 7        | 6        | 8        |

I. Ch: *a-Stellarietea mediae; b-Polygono-Chenopodietalia;*  
*c -Polygono-Chenopodion*

|                                 |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|
| <i>a Polygonum aviculare</i>    | + | . | . | + | . | . |
| <i>a Crepis tectorum</i>        | . | . | + | . | . | + |
| <i>b Echinochloa crus-galli</i> | . | . | . | + | + | . |
| <i>b Galinsoga ciliata</i>      | 2 | + | . | . | 1 | . |
| <i>b Galinsoga parviflora</i>   | 3 | 4 | 5 | 4 | 3 | 4 |
| <i>b Geranium pusillum</i>      | . | + | + | . | . | + |
| <i>c Lamium purpureum</i>       | + | . | + | . | + | + |
| <i>c Sonchus oleraceus</i>      | + | + | + | . | . | + |

II. Ch: *a -Artemisietalia vulgaris, b-Glechometalia hederaceae*

|                             |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|
| <i>a Arctium lappa</i>      | + | . | . | + | . | . |
| <i>a Urtica dioica</i>      | + | + | + | . | . | . |
| <i>b Glechoma hederacea</i> | + | + | . | . | + | . |

III. Ch: *Polygonion avicularis*

|                              |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|
| <i>Chamomilla suaveolens</i> | . | . | + | . | . | + |
| <i>Lolium perenne</i>        | . | . | . | + | . | + |

IV. Ch: *Agropyretea intermedio-repentis*

|                             |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|
| <i>Convolvulus arvensis</i> | . | + | + | . | . | . |
| <i>Poa angustifolia</i>     | . | . | + | . | . | . |

V. Ch: *Koelerio glaucae-Corynephoretea canescantis*

|                          |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|
| <i>Rumex acetosella</i>  | . | . | + | . | . | + |
| <i>Trifolium arvense</i> | + | . | . | . | + | . |

VI. Other:

|                       |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|
| <i>Urtica urens</i>   | + | . | . | + | . | . |
| <i>Malva neglecta</i> | + | . | . | + | . | . |

Occasional species: *Ia - Amaranthus albus +1/*, *VI- Impatiens parviflora +/2;*  
*Calystegia sepium r/4; Brassica napus +/4; Cirsium arvense r/6; Vicia sepium +/6*

4 - *Sisymbrietum loeselii*; 5 - *Hordeetum murini*

| Community number   | 4        |          |          |          |          | 5        |          |          |          |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Relevé number in table   | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        |
| Relevé number  | 4        | 31       | 72       | 81       | 110      | 13       | 14       | 18       | 74       |
| Cover tree and shrubs layer [%]  | -        | -        | -        | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]   | 95       | 90       | 100      | 100      | 100      | 100      | 95       | 100      | 100      |
| Area [m <sup>2</sup> ]   | 25       | 10       | 20       | 15       | 10       | 10       | 15       | 15       | 100      |
| Date   | 11.08.19 | 25.08.19 | 08.08.20 | 30.08.20 | 30.08.20 | 25.08.19 | 25.08.19 | 25.08.19 | 08.08.20 |
| Number of species  | 9        | 8        | 12       | 12       | 8        | 6        | 4        | 6        | 5        |
| I. Ch: a- <i>Stellarietea mediae</i> ; b- <i>Sisymbrietalia</i> ;<br>c- <i>Polygono-Chenopodietalia</i> ; d - <i>Polygono-Chenopodion</i>        |          |          |          |          |          |          |          |          |          |
| a <i>Viola arvensis</i>  | .        | +        | .        | .        | +        | .        | .        | .        | .        |
| a <i>Anagallis arvensis</i>  | +        | .        | .        | +        | .        | .        | .        | +        | .        |
| a <i>Bromus sterilis</i>   | .        | .        | .        | .        | .        | 3        | 2        | 2        | 2        |
| a <i>Fallopia convolvulus</i>  | .        | .        | .        | +        | +        | .        | .        | .        | .        |
| a <i>Hordeum murinum</i>   | .        | .        | .        | .        | .        | +        | .        | +        | +        |
| a <i>Myosotis arvensis</i>   | +        | +        | .        | .        | .        | +        | .        | .        | +        |
| a <i>Vicia hirsuta</i>   | .        | .        | +        | +        | .        | +        | +        | .        | .        |
| b <i>Sisymbrium loeselii</i>   | 5        | 4        | 5        | 4        | 3        | .        | .        | .        | .        |
| b <i>Sisymbrium officinale</i>   | .        | +        | +        | .        | .        | .        | .        | .        | .        |
| c <i>Sonchus arvensis</i>  | +        | .        | .        | +        | +        | .        | .        | +        | .        |
| c <i>Stellaria media</i>   | .        | .        | +        | +        | .        | +        | .        | .        | .        |
| d <i>Sonchus oleraceus</i>   | .        | .        | +        | .        | +        | .        | .        | .        | +        |
| II.Ch: a- <i>Molinio-Arrhenatheretea</i> ; b- <i>Polygonion avicularis</i> ; c- <i>Arrhenatheretalia</i> ;<br>d- <i>Arrhenatherion elatioris</i> |          |          |          |          |          |          |          |          |          |
| a <i>Poa pratensis</i>   | .        | .        | +        | +        | .        | +        | .        | .        | .        |
| a <i>Trifolium pratense</i>  | +        | .        | .        | +        | .        | .        | .        | .        | .        |

|  |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|
| <i>b</i> <i>Lolium perenne</i>   | + | . | . | + | . | . | . | . | . |
| <i>c</i> <i>Achillea millefolium</i>   | + | + | + | . | + | . | + | . | + |
| <i>d</i> <i>Arrhenatherum elatius</i>  | . | + | + | . | . | . | . | + | . |
| <i>d</i> <i>Galium mollugo</i>   | . | . | + | + | . | . | . | . | . |
| <b>III. Ch: a -Artemisietalia vulgaris</b>   |   |   |   |   |   |   |   |   |   |
| <i>Artemisia vulgaris</i>  | + | . | + | + | . | . | . | + | . |
| <i>Urtica dioica</i>   | . | + | . | . | . | . | . | . | . |
| <i>Cirsium arvense</i>   | . | . | + | . | . | . | . | . | . |
| <b>IV. Ch: Agropyretea intermedio-repentis</b>                                       |   |   |   |   |   |   |   |   |   |
| <i>Convolvulus arvensis</i>  | . | . | + | . | + | . | . | . | . |
| <b>V. Ch: Koelerio glaucae-Corynephoretea canescens</b>                              |   |   |   |   |   |   |   |   |   |
| <i>Trifolium arvense</i>   | + | . | . | . | + | . | + | . | . |
| <b>VI. Other:</b>  |   |   |   |   |   |   |   |   |   |
| <i>Setaria pumila</i>  | . | . | . | + | . | . | . | . | . |
| <i>Malva neglecta</i>  | . | + | . | . | . | . | . | . | . |
| Occasional species: VI- <i>Polygonum persicaria</i> +/2; <i>Lamium purpureum</i> +/4 |   |   |   |   |   |   |   |   |   |

#### 6 - *Urtico-Malvetum neglectae*

|                                 |                                     |          |          |          |          |          |
|---------------------------------|-------------------------------------|----------|----------|----------|----------|----------|
| Community number                | 6                                   |          |          |          |          |          |
| Relevé number in table          | 1    2    3    4    5    6          |          |          |          |          |          |
| Relevé number                   | 5    38    56    64    70    93     |          |          |          |          |          |
| Cover tree and shrubs layer [%] | -    -    -    -    -    -          |          |          |          |          |          |
| Cover layer herb layer [%]      | 80    95    100    100    90    100 |          |          |          |          |          |
| Area [m <sup>2</sup> ]          | 10    10    10    10    10    10    |          |          |          |          |          |
| Date                            | 11.08.19                            | 21.06.20 | 28.06.20 | 28.06.20 | 08.08.20 | 30.08.20 |

| Number of species   | 8 | 7 | 10 | 7 | 10 | 5 |
|---|---|---|----|---|----|---|
| I. Ch: <i>a-Stellarietea mediae; b- Sisymbrietalia; c-Polygono-Chenopodietalia; d -Polygono-Chenopodium; e - Centauretalia cyanii, f- Urtico-Malvetum neglectae</i> |   |   |    |   |    |   |
| <i>a Viola arvensis</i>   | . | . | .  | . | .  | + |
| <i>a Anagallis arvensis</i>   | . | + | +  | . | .  | . |
| <i>b Sisymbrium officinale</i>  | . | . | +  | . | .  | . |
| <i>c Sonchus arvensis</i>   | . | + | .  | . | .  | . |
| <i>c Stellaria media</i>  | + | . | .  | . | +  | . |
| <i>d Sonchus oleraceus</i>  | . | . | .  | + | +  | . |
| <i>e Anthemis arvensis</i>  | . | . | +  | . | .  | . |
| <i>f Malva neglecta</i>   | 3 | 3 | 2  | 3 | 3  | 4 |
| <i>f Malva pusilla</i>  | . | + | +  | . | +  | . |
| <i>f Urtica urens</i>   | 1 | 2 | 2  | 1 | +  | + |
| II.Ch: <i>a-Molinio-Arrhenatheretea; b-Polygonion avicularis; c-Arrhenatheretalia; d- Arrhenatherion elatioris</i>  |   |   |    |   |    |   |
| <i>a Festuca pratensis</i>  | + | . | .  | . | +  | . |
| <i>b Lolium perenne</i>   | . | . | .  | . | +  | . |
| <i>c Achillea millefolium</i>   | . | . | .  | + | .  | + |
| <i>b Daucus carota</i>  | + | + | .  | . | .  | . |
| <i>b Dactylis glomerata</i>   | . | . | +  | . | +  | . |
| <i>d Arrhenatherum elatius</i>  | . | . | +  | . | .  | . |
| III. Ch: <i>a -Artemisieta vulgaris; b - Artemisietalia vulgaris;</i>   |   |   |    |   |    |   |
| <i>a Malva sylvestris</i>   | + | . | +  | + | .  | . |
| <i>b Arctium lappa</i>  | . | + | +  | . | .  | . |
| IV. Ch: <i>Agropyretea intermedio-repentis</i>  |   |   |    |   |    |   |
| <i>Equisetum arvense</i>  | . | . | +  | . | .  | . |
| V. Ch: <i>Koelerio glaucae-Corynephoretea canescantis</i>   |   |   |    |   |    |   |
| <i>Trifolium arvense</i>  | + | . | .  | . | +  | . |
| VI. Other:  |   |   |    |   |    |   |
| <i>Conyza canadensis</i>  | + | . | .  | + | +  | + |
| <i>Chenopodium album</i>  | . | . | .  | + | .  | . |
| Occasional species: <i>IIa - Trifolium pratense +/3; IIIb - Armoracia rusticana +/2</i>   |   |   |    |   |    |   |

7 - *Calamagrostietum epigeji*

|  |                        |          |          |          |          |          |
|--|------------------------|----------|----------|----------|----------|----------|
| Community number   | 7                      |          |          |          |          |          |
| Relevé number in table   | 1 2 3 4 5 6            |          |          |          |          |          |
| Relevé number  | 7 17 21 77 80 89       |          |          |          |          |          |
| Cover tree and shrubs layer [%]  | - - - - - -            |          |          |          |          |          |
| Cover layer herb layer [%]   | 85 100 100 100 100 100 |          |          |          |          |          |
| Area [m <sup>2</sup> ]   | 20 25 25 10 20 10      |          |          |          |          |          |
| Date   | 11.08.19               | 25.08.19 | 25.08.19 | 08.08.20 | 30.08.20 | 30.08.20 |
| Number of species  | 10                     | 17       | 12       | 14       | 12       | 11       |
| I. Ch: <i>a-Stellarietea mediae</i> ; <i>b-Apera spica-venti</i> ; <i>c-Lamio-Veronicetum politae</i>  |                        |          |          |          |          |          |
| <i>a Vicia hirsuta</i>   | .                      | +        | +        | .        | .        | .        |
| <i>b Apera spica-venti</i>   | +                      | +        | .        | .        | +        | .        |
| <i>c Veronica agrestis</i>   | .                      | +        | .        | .        | .        | .        |
| II.Ch: <i>a-Molinio-Arrhenatheretea</i> ; <i>b -Arrhenatheretalia elatioris</i> ;<br><i>c-Plantaginetalia majoris</i> ; <i>d-Arrhenatherion elatioris</i> ; <i>e -Cynosurion</i> |                        |          |          |          |          |          |
| <i>a Poa pratensis</i>   | .                      | .        | +        | .        | .        | +        |
| <i>a Festuca rubra</i>   | .                      | .        | .        | +        | +        | .        |
| <i>a Vicia cracca</i>  | .                      | +        | .        | +        | .        | .        |
| <i>b Achillea millefolium</i>  | +                      | +        | .        | +        | .        | +        |
| <i>b Dactylis glomerata</i>  | .                      | +        | .        | .        | +        | .        |
| <i>c Lolium perenne</i>  | .                      | +        | .        | +        | .        | .        |
| <i>c Plantago major</i>  | +                      | .        | +        | +        | .        | +        |
| <i>d Arrhenatherum elatius</i>   | .                      | +        | .        | .        | +        | .        |
| <i>d Geranium pratense</i>   | +                      | +        | .        | +        | .        | +        |
| <i>d Pastinaca sativa</i>  | +                      | .        | .        | +        | .        | .        |
| <i>e Leontodon autumnalis</i>  | .                      | .        | +        | .        | .        | .        |

III. Ch: a -*Artemisietea vulgaris*; b -*Artemisietalia vulgaris*; c -*Onopordetalia acanthii*; d-*Rudbeckio-Solidaginetum*

|                               |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|
| <i>a Armoracia rusticana</i>  | + | + | . | . | . | . |
| <i>a Artemisia vulgaris</i>   | + | . | + | + | + | + |
| <i>a Geranium robertianum</i> | . | + | + | + | . | + |
| <i>a Linaria vulgaris</i>     | + | . | . | + | . | . |
| <i>a Urtica dioica</i>        | . | . | + | . | . | + |
| <i>b Taraxacum officinale</i> | . | . | . | . | + | + |
| <i>c Oenothera biennis</i>    | . | . | . | . | + | . |
| <i>d Solidago gigantea</i>    | . | + | + | . | + | . |

IV.Ch: *Agropyretea intermedio-repentis*

|                             |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|
| <i>Equisetum arvense</i>    | . | + | + | . | . | . |
| <i>Convolvulus arvensis</i> | . | + | . | . | + | . |

V. Ch: *Koelerio glaucae-Corynephoretea canescantis*

|                         |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|
| <i>Rumex acetosella</i> | . | . | + | . | . | + |
|-------------------------|---|---|---|---|---|---|

VI.Ch: a -*Epilobietea angustifolii*; b-*Epilobion angustifolii*

|                                     |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|
| <i>a Calamagrostis epigejos</i>     | 4 | 5 | 4 | 4 | 5 | 5 |
| <i>b Chamaenerion angustifolium</i> | + | . | . | + | + | . |

VII. Other:

|                          |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|
| <i>Conyza canadensis</i> | . | + | + | + | + | + |
| <i>Medicago sativa</i>   | . | + | . | + | . | . |

Occasional species: VI-*Amaranthus retroflexus* +/2; *Plantago major* +/3;  
 VIIa-*Rubus idaeus* +/6; IIIa-*Fallopia convolvulus* +/5; Ia-*Crepis tectorum* +/5;  
 Ie-*Bellis perennis* +/1;

8 - *Sambucetum nigrae*; 9 - *Artemisio-Tanacetetum vulgaris*

| Community number   | 8        |          |          | 9        |          |          |          |          |          |          |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Relevé number in table   | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       |
| Relevé number  |          | 41       | 104      | -        | 27       | -        | 39       | 43       | -        | 87       |
| Pokrycie warstwy drzew i krzewów w %   |          | 80       | 100      | -        | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]   | 10       | 10       | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      |
| Area [m <sup>2</sup> ]   | 20       | 30       | 20       | 15       | 15       | 100      | 25       | 16       | 20       | 10       |
| Date   | 21.06.20 | 18.04.21 | 18.04.21 | 25.08.19 | 25.08.19 | 21.06.20 | 21.06.20 | 21.06.20 | 28.06.20 | 30.08.20 |
| Number of species  | 5        | 8        | 8        | 10       | 13       | 10       | 12       | 12       | 11       | 13       |
| <b>I. Ch: Sambuco-Salicion</b>   |          |          |          |          |          |          |          |          |          |          |
| <i>Salix caprea</i>  | 1        | 1        | +        | .        | .        | .        | .        | .        | .        | .        |
| <i>Sambucus nigra</i>  | 4        | 4        | 5        | .        | .        | .        | .        | .        | .        | .        |
| <b>II. Ch: a-Stellarietea mediae; b-Apera spica-venti; c-Sisymbrietum loeselii; d-Polygono-Chenopodietalia</b>                   |          |          |          |          |          |          |          |          |          |          |
| <i>a Veronica arvensis</i>   | .        | .        | .        | .        | .        | .        | +        | +        | .        | +        |
| <i>b Apera spica-venti</i>   | .        | +        | +        | .        | +        | .        | .        | .        | +        | +        |
| <i>d Sonchus oleraceus</i>   | .        | .        | .        | +        | .        | +        | +        | .        | .        | +        |
| <i>a Viola arvensis</i>  | .        | .        | .        | .        | +        | .        | .        | .        | +        | .        |
| <i>c Sisymbrium loeselii</i>   | .        | .        | .        | .        | +        | .        | .        | +        | .        | .        |
| <b>III.Ch: a-Molinio-Arrhenatheretea; b -Arrhenatheretalia elatioris; c-Plantaginetalia majoris; d-Arrhenatherion elatioris;</b> |          |          |          |          |          |          |          |          |          |          |
| <i>a Vicia cracca</i>  | +        | .        | .        | +        | +        | .        | +        | .        | +        | +        |
| <i>b Achillea millefolium</i>  | .        | +        | .        | +        | +        | .        | .        | +        | .        | .        |

|   |   |          |   |          |   |   |    |   |   |   |   |
|---|---|----------|---|----------|---|---|----|---|---|---|---|
| <i>b Dactylis glomerata</i>   | . | +        | . | .        | . | + | .  | . | . | + | + |
| <i>c Plantago major</i>   | . | .        | . | <i>r</i> | . | + | .  | . | . | . | . |
| <i>d Daucus carota</i>  | . | .        | . | +        | + | . | .  | . | . | . | + |
| <i>d Galium mollugo</i>   | . | .        | . | +        | + | . | .  | . | + | + | . |
| <i>d Pastinaca sativa</i>   | . | .        | . | +        | + | . | .  | . | . | . | . |
| IV. Ch: <i>a -Artemisietaea vulgaris; b - Artemisietalia vulgaris; c - Onopordetalia acanthii; d-Artemisio-Tanacetetum vulgaris</i>   |   |          |   |          |   |   |    |   |   |   |   |
| <i>a Armoracia rusticana</i>  | . | .        | . | .        | . | + | .  | . | . | . | . |
| <i>a Artemisia vulgaris</i>   | + | .        | + | 2        | 1 | 2 | 4  | 3 | + | 2 |   |
| <i>a Geranium robertianum</i>   | . | +        | + | .        | . | . | .+ | . | . | . | . |
| <i>a Linaria vulgaris</i>   | . | .        | . | .        | + | . | .  | + | . | . | . |
| <i>a Urtica dioica</i>  | . | +        | + | .        | . | . | +  | + | + | + | . |
| <i>b Arctium lappa</i>  | . | .        | . | .        | . | . | .  | + | . | . | + |
| <i>c Oenothera biennis</i>  | . | .        | . | .        | . | + | +  | . | . | . | + |
| <i>d Tanacetum vulgare</i>  | . | .        | . | +        | 1 | + | 1  | 1 | 2 | 1 |   |
| V.Ch: <i>Agropyretea intermedia-repentis</i>  |   |          |   |          |   |   |    |   |   |   |   |
| <i>Equisetum arvense</i>  | . | .        | + | .        | . | . | +  | + | . | . | + |
| <i>Poa angustifolia</i>   | . | .        | . | .        | . | + | .  | . | + | . | . |
| <i>Convolvulus arvensis</i>   | . | .        | . | +        | + | . | .  | . | . | . | + |
| VI. Ch: <i>Koelerio glaucae-Corynephoretea canescens</i>  |   |          |   |          |   |   |    |   |   |   |   |
| <i>Rumex acetosella</i>   | . | .        | . | .        | + | + | +  | . | . | . | . |
| VII.Ch: <i>Epilobietea angustifolii</i>   |   |          |   |          |   |   |    |   |   |   |   |
| <i>Calamagrostis epigejos</i>   | + | .        | . | .        | + | + | .  | + | + | . | . |
| VIII. Ch: <i>Querco-Fagetea</i>   |   |          |   |          |   |   |    |   |   |   |   |
| <i>Aegopodium podagraria</i>  | . | .        | + | .        | . | . | .  | . | . | . | . |
| IX. Other:  |   |          |   |          |   |   |    |   |   |   |   |
| <i>Conyza canadensis</i>  | . | <i>r</i> | . | .        | . | . | .  | + | + | + | . |
| <i>Amaranthus retroflexus</i>   | . | .        | . | .        | . | . | +  | . | . | . | + |
| Occasional species: IIb - <i>Vicia hirsuta</i> +/5; IV a - <i>Lamium album</i> r/8, IV c - <i>Reseda lutea</i> +/8, VIII - <i>Corylus avellana</i> +/1; IX- <i>Carpinus betulus</i> +/2, <i>Anthriscus sylvestris</i> r/7, <i>Symporicarpos albus</i> r/1 |   |          |   |          |   |   |    |   |   |   |   |

10 - *Arctio-Artemisietum vulgaris*

|  |                              |          |          |          |          |
|--|------------------------------|----------|----------|----------|----------|
| Community number   | 10                           |          |          |          |          |
| Relevé number in table   | 1    2    3    4    5        |          |          |          |          |
| Relevé number  | 30    37    49    65    79   |          |          |          |          |
| Cover tree and shrubs layer [%]  | -    -    -    -    -        |          |          |          |          |
| Cover layer herb layer [%]   | 90    90    100    100    70 |          |          |          |          |
| Area [m <sup>2</sup> ]   | 15    20    10    20    15   |          |          |          |          |
| Date   | 25.08.19                     | 21.06.20 | 21.06.20 | 28.06.20 | 08.08.20 |
| Number of species  | 5                            | 7        | 10       | 9        | 10       |
| <b>I. Ch: <i>Sisymbrietum loeselii</i></b>   |                              |          |          |          |          |
| <i>Sisymbrium loeselii</i>   | +    +    .    .    .        |          |          |          |          |
| <b>II.Ch:</b> <i>a-Molinio-Arrhenatheretea; b -Arrhenatheretalia elatioris;</i><br><i>c-Trifolio fragiferae-Agrostietalia stoloniferae; d-Arrhenatherion elatioris;</i><br><i>e- Plantaginetalia majoris</i> |                              |          |          |          |          |
| <i>a Lathyrus pratensis</i>  | .                            | .        | +        | .        | .        |
| <i>b Achillea millefolium</i>  | .                            | .        | .        | +        | +        |
| <i>b Dactylis glomerata</i>  | .                            | +        | +        | .        | +        |
| <i>c Rumex crispus</i>   | .                            | .        | +        | .        | +        |
| <i>d Daucus carota</i>   | +                            | .        | .        | .        | +        |
| <i>e Lolium perenne</i>  | .                            | .        | .        | +        | .        |
| <b>III. Ch:</b> <i>a -Artemisietea vulgaris; b - Artemisietalia vulgaris;</i><br><i>c-Artemisio-Tanacetetum vulgaris; d- Dauco-Melilotenion</i>  |                              |          |          |          |          |
| <i>a Artemisia vulgaris</i>  | 1                            | 4        | 2        | 1        | 3        |
| <i>a Geranium robertianum</i>  | .                            | .        | +        | +        | .        |
| <i>a Urtica dioica</i>   | .                            | +        | +        | .        | +        |
| <i>b Arctium lappa</i>   | 2                            | +        | 3        | 3        | +        |

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| <i>c Tanacetum vulgare</i>   | . | . | . | + | . |
| <i>d Berteroa incana</i>   | . | . | + | . | . |
| IV.Ch: <i>Agropyretea intermedio-repentis</i>  |   |   |   |   |   |
| <i>Elymus repens</i>   | + | + | . | + | . |
| <i>Poa angustifolia</i>  | . | . | + | + | + |
| <i>Convolvulus arvensis</i>  | . | + | . | . | + |
| V.Ch: <i>Epilobetea angustifolii</i>   |   |   |   |   |   |
| <i>Calamagrostis epigejos</i>  | . | . | + | + | . |
| VI. Other:   |   |   |   |   |   |
| <i>Conyza canadensis</i>   | . | . | . | . | + |
| Occasional species: IIa - <i>Trifolium pratense</i> +/3; IIa - <i>Vicia cracca</i> +/4 |   |   |   |   |   |

11 - *Rudbeckio-Solidaginetum*; 12 - *Convolvulo arvensis-Agropyretum repentis*

| Community number  | 11       |          |          |          |          | 12       |          |
|---|----------|----------|----------|----------|----------|----------|----------|
| Relevé number in table  | 1        | 2        | 3        | 4        | 5        | 6        | 7        |
| Relevé number   | 19       | 23       | 25       | 91       | 101      | 36       | 97       |
| Cover tree and shrubs layer [%]   | -        | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]  | 100      | 90       | 100      | 100      | 100      | 100      | 100      |
| Area [m <sup>2</sup> ]  | 10       | 15       | 10       | 20       | 10       | 20       | 100      |
| Date  | 25.08.19 | 25.08.19 | 25.08.19 | 30.08.20 | 18.04.21 | 21.06.20 | 18.04.21 |
| Number of species   | 6        | 11       | 8        | 14       | 8        | 11       | 14       |
| <b>I. Ch:</b> a- <i>Stellarietea mediae</i> (x) b- <i>Apera spica-venti</i> ; c - <i>Polygono-Chenopodion</i>   |          |          |          |          |          |          |          |
| b <i>Apera spica-venti</i>  | .        | .        | .        | +        | +        | .        | +        |
| c <i>Lamium purpureum</i>   | .        | +        | .        | .        | .        | .        | +        |
| c <i>Sonchus oleraceus</i>  | .        | .        | +        | +        | .        | +        | +        |
| <b>II.Ch:</b> a- <i>Molinio-Arrhenatheretea</i> ; b - <i>Arrhenatheretalia elatioris</i> ; c- <i>Trifolio fragiferae-Agrostietalia</i> ; d- <i>Arrhenatherion elatioris</i> ; e <i>Plantagineta majoris</i> |          |          |          |          |          |          |          |
| a <i>Lathyrus pratensis</i>   | .        | .        | +        | .        | +        | .        | .        |
| b <i>Achillea millefolium</i>   | +        | +        | .        | .        | .        | .        | +        |
| b <i>Dactylis glomerata</i>   | .        | .        | .        | +        | .        | +        | .        |
| c <i>Rumex crispus</i>  | .        | .        | .        | .        | .        | .        | +        |
| a <i>Poa pratensis</i>  | .        | .        | +        | +        | +        | .        | +        |
| d <i>Galium mollugo</i>   | .        | .        | +        | +        | .        | .        | .        |
| <b>III. Ch:</b> a - <i>Artemisietea vulgaris</i> ; b- <i>Convolvuletalia sepium</i> ; c- <i>Dauco-Melilotenion</i> ; d- <i>Senecion fluviatilis</i>   |          |          |          |          |          |          |          |
| a <i>Cirsium arvense</i>  | .        | +        | .        | .        | .        | +        | .        |
| a <i>Artemisia vulgaris</i>   | .        | .        | .        | .        | .        | +        | +        |

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <i>a Linaria vulgaris</i>  | . | + | . | . | + | . | . |
| <i>a Urtica dioica</i>   | + | . | . | + | . | + | . |
| <i>b Calystegia sepium</i>   | . | . | . | + | . |   |   |
| <i>d Solidago canadensis</i>   | 4 | 3 | 2 | 3 | 2 | . | + |
| <i>d Solidago gigantea</i>   | 4 | 3 | 4 | 4 | 4 | . | . |
| <i>c Berteroa incana</i>   | . | + | . | + | . | + | + |
| <i>c Tanacetum vulgare</i>   | . | + | . | + | . |   |   |
| <b>IV.Ch: Agropyretea intermedio-repentis</b>  |   |   |   |   |   |   |   |
| <i>Elymus repens</i>   | . | + | . | . | . | 5 | 4 |
| <i>Poa angustifolia</i>  | + | . | + | . | . | . | + |
| <i>Bromus inermis</i>  | + | . | . | + | . | . | . |
| <i>Convolvulus arvensis</i>  | . | . | . | + | + | 2 | 2 |
| <b>V.Ch: Epilobietea angustifolii</b>  |   |   |   |   |   |   |   |
| <i>Calamagrostis epigejos</i>  | . | + | . | + | + | + | + |
| <b>VI. Other:</b>  |   |   |   |   |   |   |   |
| <i>Agrostis capillaris</i>   | . | . | . | . | . | + | + |
| <i>Conyza canadensis</i>   | . | + | + | . | . | + | . |
| Occasional species: Ia - <i>Fallopia convolvulus</i> +/6; III a- <i>Daucus carota</i> +/7; VI - <i>Sambucus nigra</i> +/3; VI- <i>Betula pendula</i> +/4, <i>Erigeron annuus</i> +/7 |   |   |   |   |   |   |   |

13 - *Phragmitetum australis*, 14 - *Typhetum latifoliae*

| Community number                | 13 |     |    |     | 14  |     |     |
|---------------------------------|----|-----|----|-----|-----|-----|-----|
| Relevé number in table          | 1  | 2   | 3  | 4   | 6   | 7   | 8   |
| Relevé number                   | 16 | 22  | 84 | 99  | 11  | 24  | 83  |
| Cover tree and shrubs layer [%] | -  | 1   | -  | 1   | -   | -   | -   |
| Cover layer herb layer [%]      | 95 | 100 | 90 | 100 | 100 | 100 | 100 |
| Area [m <sup>2</sup> ]          | 10 | 20  | 25 | 15  | 10  | 20  | 20  |

| Date   | 25.08.19 | 25.08.19 | 30.08.20 | 18.04.21 | 25.08.19 | 25.08.19 | 30.08.20 |
|--|----------|----------|----------|----------|----------|----------|----------|
| Number of species  | 8        | 10       | 7        | 6        | 9        | 9        | 7        |
| <b>I. Ch: a-Phragmitetea, b- Magnocaricion</b>                   |          |          |          |          |          |          |          |
| <i>a Phragmites australis</i>                                    | 4        | 5        | 5        | 5        | 1        | 2        | +        |
| <i>a Acorus calamus</i>  | +        | .        | 1        | .        | 1        | 2        | 2        |
| <i>a Glyceria maxima</i>   | 1        | +        | 2        | +        | 1        | +        | 1        |
| <i>a Rumex hydrolapathum</i>                                     | +        | +        | .        | .        | +        | .        | .        |
| <i>a Typha latifolia</i>   | 1        | +        | .        | .        | 4        | 5        | 4        |
| <i>b Carex acutiformis</i>                                       | 1        | +        | 2        | .        | +        | +        | 2        |
| <i>b Phalaris arundinacea</i>                                    | .        | .        | +        | +        | .        | +        | +        |
| <i>b Poa palustris</i>   | 1        | +        | 1        | .        | +        | 1        | 1        |
| <i>b Rumex crispus</i>   | +        | .        | +        | .        | .        | +        | .        |
| <b>II.Ch: Filipendulion ulmariae</b>                             |          |          |          |          |          |          |          |
| <i>Filipendula ulmaria</i>                                       | +        | .        | .        | .        | +        | .        | .        |
| <b>III.Ch: Epilobietea angustifolii</b>                          |          |          |          |          |          |          |          |
| <i>Salix caprea</i>  | .        | +        | .        | +        | .        | .        | .        |
| <b>IV. Ch: a - Artemisieta vulgaris; b - Convolvulion sepium</b> |          |          |          |          |          |          |          |
| <i>a Urtica dioica</i>   | .        | +        | .        | .        | .        | .        | .        |
| <i>b Eupatorium cannabinum</i>                                   | .        | .        | .        | .        | +        | +        | .        |
| <b>V. Other:</b>   |          |          |          |          |          |          |          |
| <i>Solidago canadensis</i>                                       | .        | +        | .        | +        | .        | .        | .        |
| <i>Calamagrostis canescens</i>                                   | .        | +        | .        | +        | .        | .        | .        |
| Occasional species: V- <i>Tussilago farfara</i> +/4              |          |          |          |          |          |          |          |

15 - *Glycerietum maximae*

|  |  |   |   |   |   |   |
|--|--|---|---|---|---|---|
| Community number   | 15   |   |   |   |   |   |
| Relevé number in table   | 1    2    3    4    5    6   |   |   |   |   |   |
| Relevé number  | 45                51                57                66                67                68                                     |   |   |   |   |   |
| Cover tree and shrubs layer [%]  | -                -                -                -                -                -   |   |   |   |   |   |
| Cover layer herb layer [%]   | 95                100                90                100                90                100                                  |   |   |   |   |   |
| Area [m <sup>2</sup> ]   | 40                35                25                25                30                30                                     |   |   |   |   |   |
| Date   | 21.06.20                21.06.20                28.06.20                11.07.20                11.07.20                11.07.20 |   |   |   |   |   |
| Number of species  | 10    8    9    8    7    12   |   |   |   |   |   |
| <b>I. Ch: a-<i>Phragmitetea</i>, b- <i>Magnocaricion</i></b>                     |  |   |   |   |   |   |
| <i>a Acorus calamus</i>  | 1  | 2 | . | 1 | + | . |
| <i>a Glyceria maxima</i>   | 5  | 4 | 5 | 5 | 4 | 4 |
| <i>a Phragmites australis</i>  | 1  | + | 1 | 1 | + | 2 |
| <i>a Rumex hydrolapathum</i>   | .  | + | . | + | + | + |
| <i>a Typha latifolia</i>   | .  | + | . | . | . | + |
| <i>b Carex acutiformis</i>   | 1  | + | + | 1 | + | . |
| <i>b Phalaris arundinacea</i>  | +  | . | . | . | + | + |
| <i>b Poa palustris</i>   | +  | + | + | . | . | 1 |
| <i>b Galium palustre</i>   | .  | . | . | . | + | + |
| <i>b Rumex crispus</i>   | +  | . | + | + | . | + |
| <b>II. Ch: a-<i>Molinio-Arrhenatheretea</i>; b-<i>Filipendulion ulmariae</i></b> |  |   |   |   |   |   |
| <i>a Alopecurus pratensis</i>  | .  | . | + | + | . | + |
| <i>b Geranium palustre</i>   | .  | . | + | . | . | + |
| <i>b Valeriana officinalis</i>   | .  | . | + | . | . | . |
| <i>a Poa pratensis</i>   | +  | + | + | . | . | + |

|   |  |   |   |   |   |   |
|---|--|---|---|---|---|---|
| III.Ch: <i>Artemisietea vulgaris</i>  |  |   |   |   |   |   |
| <i>Urtica dioica</i>  |  | + | . | . | + | . |
| IV. Other:  |  |   |   |   |   |   |
| <i>Ranunculus repens</i>  |  | + | . | . | . | + |
| Occasional species: IIa: <i>Angelica sylvestris</i> +/I IV: <i>Filipendula ulmaria</i><br>+/3 |  |   |   |   |   |   |

### 16 - *Lolio-Polygonetum arenastri*

|   |   |          |          |          |          |
|---|---|----------|----------|----------|----------|
| Community number  | 16                                      |          |          |          |          |
| Relevé number in table  | 1      2      3      4      5           |          |          |          |          |
| Relevé number   | 10      26      88      98      106     |          |          |          |          |
| Cover tree and shrubs layer [%]   | -      -      -      -      -           |          |          |          |          |
| Cover layer herb layer [%]  | 100      100      100      100      100 |          |          |          |          |
| Area [m <sup>2</sup> ]  | 10                                      | 20       | 10       | 10       | 15       |
| Date  | 25.08.19                                | 25.08.19 | 30.08.20 | 18.04.21 | 18.04.21 |
| Number of species   | 10                                      | 5        | 7        | 11       | 7        |
| I. Ch: Ch: a- <i>Stellarietea mediae</i> ; b- <i>Aperion spicae-venti</i> ;<br>c- <i>Polygono-Chenopodietalia</i> ; d - <i>Panico-Setarion</i>  |   |          |          |          |          |
| a <i>Polygonum aviculare</i>  | 1                                       | +        | +        | +        | 1        |
| b <i>Apera spica-venti</i>  | +                                       | .        | .        | +        | .        |
| c <i>Echinochloa crus-galli</i>   | .                                       | .        | .        | +        | +        |
| d <i>Setaria pumila</i>   | .                                       | +        | .        | .        | +        |
| II.Ch: a- <i>Molinio-Arrhenatheretea</i> ; b - <i>Arrhenatheretalia elatioris</i> ;<br>c- <i>Plantaginetalia majoris</i> ; d- <i>Arrhenatherion elatioris</i> ; e - <i>Cynosurion</i> |   |          |          |          |          |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| <i>a Poa pratensis</i>  | . | + | . | + | . |
| <i>a Trifolium pratense</i>   | + | . | + | + | + |
| <i>b Achillea millefolium</i>   | + | . | . | + | . |
| <i>b Dactylis glomerata</i>   | . | . | + | + | . |
| <i>c Chamomilla suaveolens</i>  | + | . | . | . | + |
| <i>c Lolium perenne</i>   | 2 | 3 | 3 | 4 | 2 |
| <i>c Plantago major</i>   | 1 | + | + | 1 | 1 |
| <i>d Taraxacum officinale</i>   | + | . | + | . | . |
| <i>e Trifolium repens</i>   | + | . | + | + | . |
| III.Ch: <i>a</i> - <i>Artemisietea vulgaris</i> ; <i>b</i> - <i>Dauco-Melilotenion</i>                |   |   |   |   |   |
| <i>a Urtica dioica</i>  | . | . | . | + | . |
| <i>b Tanacetum vulgare</i>  | + | . | . | . | . |
| Occasional species: <i>Ia</i> - <i>Plantago lanceolata</i> +/5; <i>Iib</i> - <i>Daucus carota</i> +/3 |   |   |   |   |   |

17 - *Filipendulo-Geranietum palustris*; 18 - *Molinietum caeruleae*

| Community number                | 17       |          |          | 18       |          |          |          |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Relevé number in table          | 1        | 2        | 3        | 4        | 5        | 6        | 7        |
| Relevé number                   | 12       | 44       | 103      | 48       | 85       | 86       | 96       |
| Cover tree and shrubs layer [%] | -        | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]      | 100      | 100      | 100      | 100      | 100      | 100      | 100      |
| Area [m <sup>2</sup> ]          | 20       | 20       | 15       | 25       | 15       | 20       | 20       |
| Date                            | 25.08.19 | 21.06.20 | 18.04.21 | 21.06.20 | 30.08.20 | 30.08.20 | 18.04.21 |
| Number of species               | 9        | 7        | 6        | 12       | 10       | 12       | 14       |

I.Ch: a-Molinio-Arrhenatheretea; b -Molinietalia caeruleae , c- Filipendulion ulmariae; d- Molinietum caeruleae; e-Arrhenatheretalia elatioris i Arrhenatherion elatioris; f- Trifolio fragiferae-Agrostietalia stoloniferae

|                                |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|
| <i>a Ranunculus acris</i>      | . | . | . | + | . | . | 1 |
| <i>a Centaurea jacea</i>       | . | . | . | 1 | . | + | . |
| <i>a Festuca pratensis</i>     | + | . | . | . | + | . | + |
| <i>a Festuca rubra</i>         | + | . | + | . | . | . | . |
| <i>a Lathyrus pratensis</i>    | . | . | . | . | . | + | . |
| <i>a Plantago lanceolata</i>   | . | + | . | . | + | . | . |
| <i>a Poa pratensis</i>         | + | . | . | . | + | . | + |
| <i>a Rumex acetosella</i>      | . | . | . | + | + | + | . |
| <i>a Trifolium pratense</i>    | + | . | + | + | + | . | + |
| <i>b Angelica sylvestris</i>   | . | + | . | + | . | + | + |
| <i>b Equisetum palustre</i>    | . | + | . | + | . | . | + |
| <i>b Deschampsia cespitosa</i> | . | + | . | 2 | 3 | 2 | 3 |
| <i>c Geranium palustre</i>     | 1 | + | 1 | . | . | . | . |
| <i>c Filipendula ulmaria</i>   | 4 | 4 | 4 | . | + | . | + |
| <i>d Galium boreale</i>        | . | . | . | + | . | + | + |
| <i>d Molinia caerulea</i>      | + | . | . | 2 | 2 | 2 | 1 |
| <i>e Arrhenatherum elatius</i> | . | . | . | . | + | + | + |
| <i>e Dactylis glomerata</i>    | . | . | . | + | . | + | . |
| <i>e Galium mollugo</i>        | . | . | . | + | . | + | + |
| <i>f Ranunculus repens</i>     | . | . | + | . | . | . | + |

II.Ch: Artemisieta vulgaris;

|                      |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|
| <i>Urtica dioica</i> | . | . | + | . | . | + | + |
|----------------------|---|---|---|---|---|---|---|

III. Other

|                               |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|
| <i>Plantago major</i>         | + | . | . | + | . | + | . |
| <i>Calamagrostis epigeios</i> | + | + | . | . | + | . | . |

Occasional species: Ia - *Vicia cracca* +/2; Ia - *Centaurea cyanus* +/5, Ib - *Juncus effusus* +/5, Ie- *Achillea millefolium* +/6, Ie - *Taraxacum officinale*, III - *Anemone nemorosa* +/5, *Festuca arundinacea* +/5

19 – *Arrhenatheretum elatioris*; 20 - *Poa pratensis-Festuca rubra*

| Community number                | 19       |          |          |          | 20       |          |          |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Relevé number in table          | 1        | 2        | 3        | 4        | 5        | 6        | 7        |
| Relevé number                   | 35       | 53       | 75       | 76       | 2        | 78       | 102      |
| Cover tree and shrubs layer [%] | -        | -        | -        | -        | -        | -        | -        |
| Cover layer herb layer [%]      | 100      | 100      | 100      | 100      | 100      | 100      | 100      |
| Area [m <sup>2</sup> ]          | 20       | 30       | 20       | 25       | 25       | 10       | 20       |
| Date                            | 25.08.19 | 28.06.20 | 08.08.20 | 08.08.20 | 11.08.19 | 08.08.20 | 18.04.21 |
| Number of species               | 12       | 13       | 10       | 13       | 13       | 9        | 12       |

I.Ch: a-*Molinio-Arrhenatheretea*; b-*Arrhenatherion elatioris*;  
c- *Arrhenatheretalia elatioris*; d-*Plantagineta majoris*; e - *Cynosurion*

|                                |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|
| a <i>Achillea millefolium</i>  | + | + | 1 | 1 | + | . | + |
| a <i>Bellis perennis</i>       | . | . | + | . | + | . | . |
| a <i>Festuca pratensis</i>     | + | . | . | + | . | + | . |
| a <i>Festuca rubra</i>         | . | + | + | . | 4 | 4 | 2 |
| a <i>Heracleum sphondylium</i> | . | . | . | + | . | . | . |
| a <i>Plantago lanceolata</i>   | + | + | . | 1 | + | . | . |
| a <i>Poa pratensis</i>         | + | + | 1 | + | 3 | 2 | 3 |
| a <i>Ranunculus acris</i>      | 1 | 1 | + | 1 | . | + | . |
| a <i>Vicia cracca</i>          | 1 | + | . | + | + | . | . |
| a <i>Trifolium pratense</i>    | + | . | + | . | . | . | + |
| b <i>Arrhenatherum elatius</i> | 2 | 1 | 2 | 3 | . | + | + |
| b <i>Campanula patula</i>      | . | . | . | . | . | + | + |
| b <i>Galium mollugo</i>        | . | . | . | . | + | + | . |
| b <i>Geranium pratense</i>     | + | . | . | + | . | + | . |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| <i>c Dactylis glomerata</i>   | . | + | . | . | + | . | . |
| <i>c Daucus carota</i>  | + | . | + | + | . | . | . |
| <i>c Taraxacum officinale</i>   | 1 | + | + | + | + | . | . |
| <i>d Lolium perenne</i>   | . | + | . | . | + | . | . |
| <i>d Plantago major</i>   | + | + | . | + | . | . | . |
| <i>e Trifolium repens</i>   | . | + | + | . | . | . | + |
| <b>II.Ch: Artemisietae vulgaris</b>   |   |   |   |   |   |   |   |
| <i>Artemisia vulgaris</i>   | . | . | . | + | . | . | + |
| <i>Cirsium arvense</i>  | . | . | . | . | + | . | . |
| <i>Urtica dioica</i>  | . | . | . | . | + | . | + |
| <i>Tanacetum vulgare</i>  | . | . | . | . | . | . | + |
| <b>III. Other</b>   |   |   |   |   |   |   |   |
| <i>Agrostis capillaris</i>  | . | . | . | . | . | + | + |
| <i>Galium palustre</i>  | . | . | . | . | + | . | + |
| <i>Rumex acetosella</i>   | . | + | . | . | . | . | . |
| Occasional species: <i>Ia</i> - <i>Alopecurus pratensis</i> +/3; <i>Ib</i> - <i>Pastinaca sativa</i> +/1; <i>II</i> - <i>Leonurus cardiaca</i> +/3, <i>III</i> - <i>Rosa canina</i> +/, <i>Plantago media</i> +/4 |   |   |   |   |   |   |   |

## 21 - *Lolio-Cynosuretum*

|                                 |                          |  |  |  |
|---------------------------------|--------------------------|--|--|--|
| Community number                | 21                       |  |  |  |
| Relevé number in table          | 1    2    3    4         |  |  |  |
| Relevé number                   | 40    69    73    90     |  |  |  |
| Cover tree and shrubs layer [%] | -    -    -    -         |  |  |  |
| Cover layer herb layer [%]      | 100    100    100    100 |  |  |  |
| Area [m <sup>2</sup> ]          | 25    20    20    20     |  |  |  |

| Date   | 21.06.20 | 11.07.20 | 08.08.20 | 30.08.20 |
|--|----------|----------|----------|----------|
| Number of species  | 13       | 14       | 12       | 10       |
| I.Ch: <i>a</i> -Molinio-Arrhenatheretea; <i>b</i> - Cynosurion; <i>c</i> - Arrhenatheretalia elatioris; <i>d</i> - Arrhenatherion elatioris; <i>e</i> - Plantagineta majoris |          |          |          |          |
| <i>a Achillea millefolium</i>  | .        | +        | .        | +        |
| <i>a Alopecurus pratensis</i>  | +        | .        | .        | .        |
| <i>a Deschampsia cespitosa</i>   | +        | .        | .        | +        |
| <i>a Festuca pratensis</i>   | 1        | 1        | +        | +        |
| <i>a Festuca rubra</i>   | +        | +        | .        | .        |
| <i>a Plantago lanceolata</i>   | +        | .        | +        | .        |
| <i>a Poa pratensis</i>   | +        | .        | .        | +        |
| <i>a Ranunculus acris</i>  | .        | .        | +        | .        |
| <i>a Trifolium pratense</i>  | +        | +        | .        | +        |
| <i>b Bellis perennis</i>   | +        | 1        | .        | +        |
| <i>b Leontodon autumnalis</i>  | .        | +        | +        | .        |
| <i>b Trifolium repens</i>  | 2        | 2        | 1        | 1        |
| <i>c Dactylis glomerata</i>  | .        | +        | +        | +        |
| <i>c Daucus carota</i>   | .        | +        | +        | .        |
| <i>c Taraxacum officinale</i>  | +        | +        | +        | .        |
| <i>d Galium mollugo</i>  | +        | +        | .        | .        |
| <i>e Lolium perenne</i>  | 3        | 2        | 4        | 4        |
| II.Ch: Artemisietae vulgaris;  |          |          |          |          |
| <i>Cirsium arvense</i>   | .        | +        | .        | .        |
| III. Other   |          |          |          |          |
| <i>Agrostis capillaris</i>   | +        | .        | +        | +        |
| <i>Plantago major</i>  | .        | +        | +        | .        |
| <i>Ranunculus repens</i>   | .        | .        | +        | .        |
| Occasional species: <i>Ia</i> - <i>Vicia cracca</i> +/4; <i>II</i> - <i>Tanacetum vulgare</i> +/4; <i>III</i> - <i>Chamomilla recutita</i> +/2                               |          |          |          |          |

22 - *Rubo fruticosi-Prunetum spinosae*, 23 - *Ribeso nigri-Alnetum*

| Community number   | 22       |          | 23       |          |          |
|--|----------|----------|----------|----------|----------|
| Relevé number in table   | 1        | 2        | 3        | 4        | 5        |
| Relevé number  |          |          |          |          |          |
| Cover tree and shrubs layer [%]  | 10       | 100      | 90       | 75       | 60       |
| Pokrycie warstwy roślin zielnych                                       | 20       | 35       | 100      | 80       | 95       |
| Area [m <sup>2</sup> ]   | 21.06.20 | 18.04.21 | 30.08.20 | 30.08.20 | 30.08.20 |
| Date   |          |          |          |          |          |
| Number of species  | 12       | 12       | 17       | 16       | 16       |
| <b>I.Ch: a - Rhamno-Prunetea; b - Pruno-Rubion fruticosi</b>           |          |          |          |          |          |
| a <i>Crataegus monogyna</i>  | .        | +        | .        | .        | .        |
| a <i>Rosa canina</i>   | 1        | .        | .        | .        | .        |
| a <i>Ulmus minor</i>   | +        | +        | .        | +        | .        |
| b <i>Rubus fruticosus</i>  | 2        | 3        | +        | 1        | +        |
| b <i>Viburnum opulus</i>   | +        | 1        | .        | .        | .        |
| <b>II.Ch: a - Querco-Fagetea, b - Carpinion betuli, c - Fagetalia</b>  |          |          |          |          |          |
| a <i>Aegopodium podagraria</i>   | .        | +        | .        | .        | .        |
| a <i>Anemone nemorosa</i>  | .        | .        | .        | +        | +        |
| a <i>Corylus avellana</i>  | .        | +        | +        | +        | .        |
| b <i>Stellaria holostea</i>  | 1        | .        | .        | .        | .        |
| b <i>Carpinus betulus</i>  | +        | 1        | .        | .        | .        |
| c <i>Galium odoratum</i>   | .        | .        | +        | .        | +        |
| <b>III. Ch: a - Alnetea glutinosae, b - Alnenion glutinoso-incanae</b> |          |          |          |          |          |
| a <i>Alnus glutinosa</i>   | .        | .        | 3        | 3        | 4        |

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| <i>a Calamagrostis canescens</i>   | . | . | . | + | . |
| <i>A Solanum dulcamara</i>   | . | . | + | . | + |
| <i>b Caltha palustris</i>  | . | . | . | . | + |
| <i>b Padus avium</i>   | . | . | . | . | + |
| IV.Ch: <i>a - Epilobietea angustifolii, b - Sambuco-Salicion</i>   |   |   |   |   |   |
| <i>a Rubus idaeus</i>  | . | . | + | + | . |
| <i>b Betula pendula</i>  | . | . | 2 | 2 | 2 |
| <i>b Populus tremula</i>   | . | . | 1 | + | + |
| <i>b Sambucus nigra</i>  | . | . | + | . | . |
| V.Ch: <i>a - Molinio-Arrhenatheretea (x); b - Molinieta caeruleae;</i><br><i>c - Filipendulion ulmariae; d - Arrhenatheretalia elatioris;</i><br><i>e - Arrhenatherion elatioris</i>                                 |   |   |   |   |   |
| <i>b Deschampsia cespitosa</i>   | . | . | . | + | . |
| <i>c Filipendula ulmaria</i>   | . | . | + | + | . |
| <i>d Achillea millefolium</i>  | + | + | . | . | . |
| <i>d Dactylis glomerata</i>  | + | + | . | . | . |
| <i>e Galium mollugo</i>  | + | + | . | . | . |
| <i>e Geranium pratense</i>   | + | . | + | + | . |
| <i>e Geranium pratense</i>   | + | + | . | . | . |
| VI. Ch: <i>Vaccinio-Piceetea</i>   |   |   |   |   |   |
| <i>Picea abies</i>   | . | . | + | . | . |
| <i>Pinus sylvestris</i>  | . | . | + | 1 | 1 |
| VII. Other   |   |   |   |   |   |
| <i>Betula pubescens</i>  | . | . | + | . | + |
| <i>Equisetum sylvaticum</i>  | . | . | + | + | . |
| <i>Galium palustre</i>   | . | . | . | + | + |
| <i>Poa palustris</i>   | . | . | + | . | + |
| <i>Quercus petraea</i>   | . | . | + | . | + |
| <i>Sorbus aucuparia</i>  | . | . | + | . | + |
| <i>Urtica dioica</i>   | + | + | + | + | + |
| Occasional species: <i>III - Ribes nigrum +/3, IVb - Salix caprea +/3, Va - Vicia cracca +/1; Festuga rubra +/2; VII - Juncus effusus +/4; Salix repens r/4, Prunus domestica ssp. syriaca +/2, Populus alba r/3</i> |   |   |   |   |   |

24 -*Querco roboris-Pinetum*

|  |                 |          |          |          |          |          |
|--|-----------------|----------|----------|----------|----------|----------|
| Community number   | 24              |          |          |          |          |          |
| Relevé number in table   | 1 2 3 4 5 6     |          |          |          |          |          |
| Relevé number  | 1               |          |          |          |          |          |
| Cover tree and shrubs layer [%]  | 70 33 34 50 52  |          |          |          |          |          |
| Cover layer herb layer [%]   | 35 65 60 65     |          |          |          |          |          |
| Area [m <sup>2</sup> ]   | 100 100 100 100 |          |          |          |          |          |
| Date   | 11.08.19        | 11.08.19 | 25.08.19 | 25.08.19 | 21.06.20 | 21.06.20 |
| Number of species  | 20              | 18       | 14       | 16       | 19       | 15       |
| <i>I. Ch:</i> a-Vaccinio-Piceetea; b-Cladonio-Vaccinieta; c-Dicrano-Pinion; d- <i>Querco roboris-Pinetum</i>                   |                 |          |          |          |          |          |
| <i>a</i> <i>Trientalis europaea</i>  | +               | +        | +        | .        | .        | .        |
| <i>a</i> <i>Vaccinium myrtillus</i>  | +               | 1        | +        | +        | 1        | 1        |
| <i>b</i> <i>Pinus sylvestris</i>   | +               | +        | 1        | 1        | 3        | 2        |
| <i>c</i> <i>Melampyrum pratense</i>  | .               | .        | .        | +        | .        | .        |
| <i>c</i> <i>Sorbus aucuparia</i>   | 1               | 1        | +        | +        | .        | .        |
| <i>d</i> <i>Quercus petraea</i>  | +               | 1        | +        | +        | +        | +        |
| <i>d</i> <i>Viola reichenbachiana</i>  | +               | +        | .        | .        | .        | .        |
| <i>d</i> <i>Carex digitata</i>   | .               | .        | +        | +        | .        | .        |
| <i>d</i> <i>Carpinus betulus</i>   | +               | +        | +        | +        | +        | +        |
| <i>d</i> <i>Corylus avellana</i>   | +               | +        | 1        | 1        | +        | .        |
| <i>d</i> <i>Euonymus verrucosa</i>   | +               | +        | .        | .        | +        | +        |
| <i>d</i> <i>Mycelis muralis</i>  | .               | .        | .        | .        | +        | .        |
| <i>d</i> <i>Quercus robur</i>  | 2               | 3        | 2        | 1        | +        | 1        |
| <i>II. Ch:</i> a - <i>Querco-Fagetea</i> ; b- <i>Fagetalia sylvaticae</i> ; c- <i>Carpinion betuli</i> ; d- <i>Alno-Ulmion</i> |                 |          |          |          |          |          |
| <i>a</i> <i>Acer platanoides</i>   | +               | .        | +        | +        | .        | .        |
| <i>a</i> <i>Aegopodium podagraria</i>  | +               | +        | +        | +        | +        | +        |

|  |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|
| <i>a Euonymus verrucosa</i>  | . | . | . | . | + | . | . |
| <i>a Fraxinus excelsior</i>  | + | + | . | . | + | . | . |
| <i>b Fagus sylvatica</i>   | + | + | . | + | + | + | + |
| <i>b Milium effusum</i>  | . | . | . | . | + | + | + |
| <i>c Tilia cordata</i>   | . | . | + | + | . | . | . |
| <i>d Padus avium</i>   | + | + | . | . | . | + | . |
| <i>III. Ch: Epilobietea angustifolií</i>   |   |   |   |   |   |   |   |
| <i>Calamagrostis epigejos</i>  | . | . | . | . | + | . | . |
| <i>Chamaenerion angustifolium</i>  | + | + | . | . | . | . | . |
| <i>IV. Other:</i>  |   |   |   |   |   |   |   |
| <i>Betula pendula</i>  | + | . | . | . | 1 | 1 |   |
| <i>Geranium robertianum</i>  | + | . | + | . | + | + |   |
| <i>Impatiens parviflora</i>  | + | + | . | . | + | . |   |
| <i>Populus tremula</i>   | + | + | . | . | + | + |   |
| <i>Galium boreale</i>  | . | . | . | + | . | + |   |
| <i>Robinia pseudoacacia</i>  | . | . | . | + | + | + |   |
| <i>Urtica dioica</i>   | . | + | + | . | + | . |   |
| <i>Occasional species: IIc - Cerasus avium +/1; IV - Quercus rubra +/3, Arctium lappa +/2, Chelidonium majus +/2, Acer pseudoplatanus +/6, Picea pungens +/2, Veronica officinalis +/1</i> |   |   |   |   |   |   |   |

## 25 - *Potentillo albae-Quercetum petraeae*

|                                 |     |     |
|---------------------------------|-----|-----|
| Community number                | 25  |     |
| Relevé number in table          | 1   | 2   |
| Relevé number                   | 113 | 114 |
| Cover tree and shrubs layer [%] |     |     |
| Cover layer herb layer [%]      | 60  | 70  |
| Area [m <sup>2</sup> ]          | 100 | 100 |

|   |    |          |
|---|----|----------|
| Date  |    | 18.04.21 |
| Number of species   | 16 | 15       |
| I. Ch: <i>a-Querco-Fagetea; b-Quercetalia pubescenti-petraeae; d-Fagetalia sylvaticae; e-Carpinion betuli;</i>  |    |          |
| <i>a Quercus robur</i>  | 4  | 3        |
| <i>a Corylus avellana</i>   | 1  | +        |
| <i>a Euonymus verrucosa</i>   | +  | 1        |
| <i>a Anemone nemorosa</i>   | 1  | +        |
| <i>a Brachypodium sylvaticum</i>  | +  | +        |
| <i>a Carex digitata</i>   | +  | .        |
| <i>a Poa nemoralis</i>  | +  | 1        |
| <i>b Ulmus minor</i>  | +  | +        |
| <i>d Galium odoratum</i>  | 1  | +        |
| <i>d Milium effusum</i>   | .  | +        |
| <i>d Padus avium</i>  | +  | +        |
| <i>d Viola reichenbachiana</i>  | .  | +        |
| <i>e Carpinus betulus</i>   | +  | +        |
| <i>e Cerasus avium</i>  | +  | .        |
| <i>e Tilia cordata</i>  | +  | .        |
| <i>e Quercus petraea</i>  | 1  | +        |
| II. Ch: <i>Vaccinio-Piceetea</i>  |    |          |
| <i>Pinus sylvestris</i>   | +  | 1        |
| III: Other  |    |          |
| <i>Geum urbanum</i>   | .  | +        |
| <i>Sorbus aucuparia</i>   | +  | .        |
| Occasional species: <i>III - Alnus glutinosa +/1, Populus tremula+/1, Quercus rubra +/2, Betula pendula +/1</i> |    |          |

26 - *Tilio-Carpinetum*

|   |                             |          |          |          |          |          |   |
|---|-----------------------------|----------|----------|----------|----------|----------|---|
| Community number  | 26                          |          |          |          |          |          |   |
| Relevé number in table  | 1 2 3 4 5 6                 |          |          |          |          |          |   |
| Relevé number   |                             |          |          |          |          |          |   |
| Cover tree and shrubs layer [%]   | 20 60 46 58 59 107 108      |          |          |          |          |          |   |
| Cover layer herb layer [%]  | 20 30 20 60 15 25 80        |          |          |          |          |          |   |
| Area [m <sup>2</sup> ]  | 100 100 100 100 100 100 100 |          |          |          |          |          |   |
| Date  | 25.08.19                    | 21.06.20 | 28.06.20 | 28.06.20 | 18.04.21 | 18.04.21 |   |
| Number of species   | 19                          | 16       | 15       | 20       | 16       | 17       |   |
| I. Ch: a- <i>Querco-Fagetea</i> ; b- <i>Fagetalia sylvaticae</i> ; c- <i>Carpinion betuli</i> |                             |          |          |          |          |          |   |
| <i>a Acer platanoides</i>   | .                           | +        | +        | .        | .        | .        | + |
| <i>a Fraxinus excelsior</i>   | .                           | .        | .        | +        | .        | .        | . |
| <i>a Quercus robur</i>  | 1                           | +        | 1        | +        | 2        | 1        |   |
| <i>a Corylus avellana</i>   | 1                           | +        | +        | +        | +        | +        | + |
| <i>a Euonymus europaea</i>  | +                           | .        | .        | +        | +        | +        | + |
| <i>a Euonymus verrucosa</i>   | .                           | .        | .        | +        | 1        | 1        |   |
| <i>a Anemone nemorosa</i>   | .                           | +        | .        | +        | +        | +        | + |
| <i>a Aegopodium podagraria</i>  | .                           | .        | .        | .        | +        | +        | + |
| <i>a Brachypodium sylvaticum</i>  | +                           | +        | .        | .        | +        | +        | + |
| <i>a Poa nemoralis</i>  | +                           | .        | .        | +        | .        | .        | . |
| <i>b Acer pseudoplatanus</i>  | .                           | +        | +        | .        | .        | .        | . |
| <i>b Asarum europaeum</i>   | +                           | .        | .        | +        | .        | .        | . |
| <i>b Galium odoratum</i>  | +                           | .        | +        | .        | +        | +        | + |
| <i>b Milium effusum</i>   | .                           | +        | +        | +        | .        | .        | . |
| <i>b Padus avium</i>  | +                           | +        | .        | +        | .        | .        | . |
| <i>b Viola reichenbachiana</i>  | +                           | +        | .        | .        | +        | +        |   |
| <i>c Carpinus betulus</i>   | 3                           | 2        | 1        | 2        | 3        | 3        |   |
| <i>c Quercus petraea</i>  | 1                           | +        | +        | +        | +        | 1        |   |

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| <i>c Tilia cordata</i>  | + | . | + | 1 | 1 | + |
| <i>c Cerasus avium</i>  | + | . | + | . | + | + |
| <i>c Stellaria holostea</i>   | 1 | + | 1 | 1 | . | + |
| II. Ch: <i>Vaccinio-Piceetea</i>  |   |   |   |   |   |   |
| <i>Pinus sylvestris</i>   | + | + | + | + | + | + |
| III. Ch: <i>Epilobietea angustifolii</i>  |   |   |   |   |   |   |
| <i>Betula pendula</i>   | 1 | 1 | + | + | . | . |
| <i>Geranium robertianum</i>   | + | . | + | . | + | + |
| <i>Populus tremula</i>  | + | + | . | + | . | . |
| IV: Other   |   |   |   |   |   |   |
| <i>Sorbus aucuparia</i>   | . | . | . | + | + | . |
| <i>Urtica dioica</i>  | + | + | . | + | . | . |
| <i>Impatiens parviflora</i>   | + | . | . | + | . | . |
| <i>Solanum dulcamara</i>  | . | . | + | + | . | . |
| Occasional species: Ia - <i>Acer campestre</i> +/4, IV - <i>Fagus sylvatica</i> +/1,<br><i>Quercus rubra</i> +/2, <i>Picea abies</i> +/3, <i>Salix alba</i> r/4 |   |   |   |   |   |   |