

## Supplementary Material

**Tab. S1** - Geographic coordinates in decimal degrees of the 32 stands (N=north, E=east).

| Stand n° | N           | E           |
|----------|-------------|-------------|
| 1        | 45.53077418 | 11.33315755 |
| 2        | 45.50771946 | 11.15071436 |
| 3        | 45.47439018 | 11.00751056 |
| 4        | 45.53526159 | 11.46943083 |
| 5        | 45.48166477 | 11.22197393 |
| 6        | 45.9063197  | 12.01017695 |
| 7        | 45.50780045 | 10.94868166 |
| 8        | 45.31245601 | 11.70183791 |
| 9        | 45.28264753 | 11.68070947 |
| 10       | 45.48318622 | 11.35555843 |
| 11       | 45.75081926 | 11.61507295 |
| 12       | 45.46508055 | 10.73194341 |
| 13       | 45.78739727 | 11.85600022 |
| 14       | 45.30798674 | 11.78799404 |
| 15       | 45.46625883 | 11.53015467 |
| 16       | 45.34998316 | 11.68135853 |
| 17       | 45.75865903 | 11.36041215 |
| 18       | 45.84489612 | 11.85599796 |
| 19       | 45.93507037 | 12.21193968 |
| 20       | 45.79960191 | 11.76754605 |
| 21       | 46.00340416 | 12.28237816 |
| 22       | 45.57211262 | 10.81675649 |
| 23       | 45.40112965 | 11.40647398 |
| 24       | 46.00771531 | 12.37115161 |
| 25       | 45.61032602 | 10.82659333 |
| 26       | 45.2958324  | 11.62573545 |
| 27       | 45.4223151  | 11.43900645 |
| 28       | 45.37012994 | 11.75512429 |
| 29       | 45.36798586 | 11.5106615  |
| 30       | 46.01692568 | 12.35662539 |
| 31       | 45.74078957 | 11.56393845 |
| 32       | 45.66898677 | 11.31797791 |

**Tab. S2** - The 32 phytosociological relevés with the *Robinia* forests. Provinces are coded as Padova – PD, Treviso – TV, Verona – VR, Vicenza – VI.

| Stand n°                  | 1   | 3   | 22  | 11  | 15  | 12  | 16  | 8   | 9   | 19  | 21  | 24  | 25  | 2   | 4   | 5   | 6   | 7   | 10  | 23 | 28 | 31  | 20  | 13  | 18  | 17  | 14  | 26  | 27  | 29  | 30  | 32  |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Cluster</b>            | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | A   | B   | B   | B   | B   | B   | B   | B  | B  | B   | C   | C   | D   | D   | D   | D   | D   |     |     |     |
| <b>Province</b>           | VI  | VR  | VR  | VI  | VI  | VR  | PD  | PD  | TV  | TV  | TV  | VR  | VR  | VI  | VR  | TV  | VR  | VI  | VI  | PD | VI | TV  | TV  | VI  | PD  | PD  | VI  | VI  | TV  | VI  |     |     |
| <b>Altitude</b>           | 150 | 265 | 124 | 298 | 238 | 119 | 123 | 294 | 235 | 270 | 213 | 407 | 334 | 335 | 50  | 401 | 443 | 152 | 222 | 76 | 26 | 226 | 165 | 119 | 364 | 693 | 37  | 184 | 169 | 24  | 466 | 600 |
| <b>Aspect (southness)</b> | 135 | 180 | 45  | 180 | 90  | 90  | 45  | 90  | 135 | 135 | 135 | 135 | 0   | 0   | 135 | 45  | 135 | 0   | 45  | 45 | 90 | 135 | 45  | 45  | 180 | 135 | 135 | 90  | 135 | 135 | 135 |     |
| <b>Slope</b>              | 14  | 3   | 10  | 10  | 12  | 3   | 7   | 27  | 23  | 20  | 25  | 9   | 0   | 15  | 6   | 21  | 21  | 0   | 16  | 23 | 20 | 13  | 2   | 8   | 12  | 32  | 39  | 25  | 5   | 3   | 12  | 2   |

**Diff. species of Bryonio-Robinion Ubaldi, Melloni & Cappelletti in Ubaldi 2003****A - tree layer***Prunus cerasifera*

+

**B - shrub layer***Hedera helix*

5 5 2 3 1 4 1 + 1 1 3 2 1 5 5 5 4 4 3 2 2 2 3 1 2 1 1 + 1 2 +

*Tamus communis*

+ 1 3 1 2 1 1 + 1 1 2 + 2 1 r r + 1 + 1

*Vitis vinifera*

+ + 1 + 1 + + 1 + 1 + + 1 + 1 + + 1 + 1 + + 1

*Bryonia dioica**Prunus cerasifera*

+

**C - herb layer***Prunus cerasifera*

+ +

**Diff. species of Balloto-Robinion Hadač & Sofron 1980****C - herb layer***Galium aparine*

+ 1 + 1 + + 1 + 1 + r 1 2 1 2 + 2 3 3 4 2 2

*Bromus sterilis*

+ 1 2 + 1 2 + 2 3 3 4 2 2

*Arrhenatherum elatius*

+ + 1 + 1

*Lactuca serriola*

r + 1

*Ballota nigra/meridionalis*

1

*Dactylis glomerata*

+ +

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| Stand n°  | 1 | 3 | 22 | 11 | 15 | 12 | 16 | 8 | 9 | 19 | 21 | 24 | 25 | 2 | 4 | 5 | 6 | 7 | 10 | 23 | 28 | 31 | 20 | 13 | 18 | 17 | 14 | 26 | 27 | 29 | 30 | 32 |   |   |  |  |
|---|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|--|--|
| <i>Torilis japonica</i>   |   |   |    |    |    |    |    | r |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Chelidonium majus</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | +  |   |   |  |  |
| <b>Diff. species of <i>Chelidoniono-Robinetalia Jurko ex Hadač &amp; Sofron 1980</i> and <i>Robinietea Jurko ex Hadač &amp; Sofron 1980</i></b> |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <b>A - tree layer</b>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Robinia pseudoacacia</i>   | 4 | 3 | 4  | 3  | 3  | 3  | 3  | 4 | 3 | 3  | 4  | 4  | 4  | 2 | 3 | 4 | 4 | 3 | 4  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 3  | 5  | 4  | 4  |    |   |   |  |  |
| <i>Sambucus nigra</i>   | 1 |   |    |    |    |    |    |   |   | 1  |    | 1  | 2  | 3 | 2 | 1 |   |   | +  | 1  |    | 2  |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Ailanthus altissima</i>  |   |   |    |    |    |    |    |   |   | 2  |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <b>B - shrub layer</b>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Sambucus nigra</i>   | 2 | + |    |    | +  | 1  | 1  | 2 | 2 | r  | 1  | 1  | 3  | 4 | 3 | 3 | 1 | 5 | 2  | 1  | 1  | 1  | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |    |   |   |  |  |
| <i>Robinia pseudoacacia</i>   |   |   |    | +  | 1  | 2  |    | + | 2 | 2  |    | +  | +  | + | r |   |   | 2 | +  | 1  | 1  |    | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 2  |    |    |   |   |  |  |
| <i>Rubus fruticosus</i> agg.  |   | 1 | 3  | 3  | 2  |    | 1  | 1 | 2 | 2  | +  | +  | +  |   | 2 |   | 2 | 1 |    |    | +  | 1  | 3  | 2  | 2  | 2  |    |    |    |    |    |    |   |   |  |  |
| <i>Ailanthus altissima</i>  | 1 |   |    |    |    |    |    | 2 |   |    |    |    |    |   |   |   |   |   | +  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <b>C - herb layer</b>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Rubus fruticosus</i> agg.  |   | 1 | 4  | 3  | 5  |    | 2  | 3 | 2 |    | +  | +  | +  | + | 1 | 1 | 3 | 1 |    | 1  | r  | 4  | 2  | 2  | 3  | 2  | 2  | r  | 1  | 1  |    |    |   |   |  |  |
| <i>Sambucus nigra</i>   | + | + |    |    |    |    |    | + | + | +  | r  | r  | +  | + | + | 1 | 1 |   | +  | 1  |    | 1  |    |    |    |    |    |    |    |    | 1  |    |   |   |  |  |
| <i>Geum urbanum</i>   | 1 |   |    | +  | +  |    |    | 1 | 2 | 1  | +  |    |    | r |   | 1 | 1 |   |    | +  | r  | 3  | 1  | 1  |    |    |    |    |    | 2  |    |    |   |   |  |  |
| <i>Robinia pseudoacacia</i>   |   |   | +  | +  |    |    | +  | + | 1 |    | +  |    |    | + |   |   |   |   |    | 1  | r  | r  |    | +  | 1  |    |    |    |    | +  | 1  |    |   |   |  |  |
| <i>Poa trivialis</i>  | + |   |    |    |    |    |    |   |   |    |    |    |    |   |   | 1 | 1 | + | 1  | 4  |    | 2  |    | 2  | +  | 1  | +  | 2  | 4  |    |    |    |   |   |  |  |
| <i>Urtica dioica</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    | + |   | 1 | 1 | 1 | +  | +  |    |    |    |    |    |    |    |    |    |    | 1  | 4  |   |   |  |  |
| <i>Alliaria petiolata</i>   |   |   |    |    |    | +  |    |   |   |    | r  |    |    | + |   | 1 | + | 2 |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Taraxacum officinale</i>   |   | r |    |    |    |    |    |   | 1 |    |    |    |    |   |   |   | 1 | r |    |    | r  | r  |    |    |    |    |    |    |    |    | r  |    |   |   |  |  |
| <i>Ailanthus altissima</i>  | 1 |   |    |    |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   | +  |    |    |    |    |    |    |    |    |    |    |    |    | +  |   |   |  |  |
| <b>Charact. species of <i>Galio-Urticetea Passarge ex Kopecký 1969</i></b>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Parietaria officinalis</i>   | + |   |    |    |    |    |    |   | 1 |    |    | +  | +  |   | 1 | 2 | 2 | 1 | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |  |
| <i>Geranium robertianum</i>   |   |   |    |    |    |    |    |   | + | r  |    |    |    |   |   |   | 1 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | + | 1 |  |  |

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| Stand n°  | 1 | 3 | 22 | 11 | 15 | 12 | 16 | 8 | 9 | 19 | 21 | 24 | 25 | 2 | 4 | 5 | 6 | 7 | 10 | 23 | 28 | 31 | 20 | 13 | 18 | 17 | 14 | 26 | 27 | 29 | 30 | 32 |   |  |  |
|---|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|
| <i>Glechoma hederacea</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    | 1 | 2 |   |   | 2 | 2  | 2  |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Galeopsis pubescens</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    | r  |    | 2  | 1  |    |    |    |    |    |    |   |  |  |
| <i>Lapsana communis</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    | r |   |   |   |   |    |    |    |    | +  |    | r  |    |    |    |    |    |    |    |   |  |  |
| <i>Viola odorata</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    | 1  |    |    | 1  |    |    |    |    |    |    |    |   |  |  |
| <b>Charact. species of <i>Artemisieta vulgaris</i> Lohmeyer, Preising &amp; Tüxen ex Von Rochow 1951</b>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Erigeron annuus</i>  |   | + |    | r  |    |    |    |   |   |    |    |    |    | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | r  |    |    |   |  |  |
| <i>Rumex obtusifolius</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    | +  | r  |    |    | +  |    |    | r  |    |    |   |  |  |
| <i>Convolvulus arvensis</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   | r |   |   |   |    |    |    |    |    |    |    |    |    |    | +  |    |    |    |   |  |  |
| <i>Lamium album</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    | r |   |   |   |   |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |   |  |  |
| <i>Solidago canadensis</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    | r | + |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <b>Charact. species of <i>Stellarietea mediae</i> Tüxen, Lohmeyer &amp; Preising ex Von Rochow 1951</b>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Stellaria media</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   | 1 | 1  | 3  |    |    |    |    | 1  |    | +  | +  | +  |    |    |    |   |  |  |
| <i>Geranium rotundifolium</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    | +  | 2  |    | +  |    |    |    |   |  |  |
| <b>Charact. species of <i>Querco-Fagetea</i> Br.-Bl. &amp; Vlieger in Vlieger 1937 and <i>Quercetea ilicis</i> (Qi) Br.-Bl. in Br.-Bl., Roussine &amp; Nègre 1952</b> |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <b>A - tree layer</b>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Fraxinus ornus</i>   | 1 | 1 |    | +  | 1  |    | 1  | 1 |   |    |    |    |    |   | 1 |   | + | + |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Celtis australis</i>   | 1 |   |    |    |    |    | +  |   | + |    |    |    |    |   |   |   |   | 1 |    |    |    |    |    |    |    |    |    | 1  | 2  |    |    |    |   |  |  |
| <i>Ulmus minor</i>  |   |   |    |    |    | 1  |    |   | 2 |    |    | 1  | 2  |   |   |   |   |   |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |   |  |  |
| <i>Acer campestre</i>   |   | + |    | 2  |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |
| <i>Fraxinus excelsior</i>   |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    | 1 |  |  |
| <i>Castanea sativa</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    | 2  |    |    |    |    |    |   |  |  |
| <i>Acer pseudoplatanus</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |   |  |  |
| <i>Quercus petraea</i>  |   |   |    |    |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |

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| Stand n°                          | 1 | 3 | 22 | 11 | 15 | 12 | 16 | 8 | 9 | 19 | 21 | 24 | 25 | 2 | 4 | 5 | 6 | 7 | 10 | 23 | 28 | 31 | 20 | 13 | 18 | 17 | 14 | 26 | 27 | 29 | 30 | 32 |
|-----------------------------------|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>B - shrub layer</b>            |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Fraxinus ornus</i>             | 2 | 1 | 1  |    | 1  |    | 1  | + | 1 | +  | 1  |    |    | r |   |   |   |   |    |    |    |    | r  | 2  |    |    |    |    |    |    |    |    |
| <i>Ruscus aculeatus</i> (Qi)      |   | + |    | +  |    | 1  | 4  | 4 |   |    |    | 2  |    | r | + | + | 1 |   |    |    |    |    | +  |    |    | 1  |    |    |    |    |    |    |
| <i>Lamium orvala</i>              |   |   |    |    |    |    | r  |   |   |    | 2  | 2  | 2  | 2 | 2 |   | 1 | 2 | 2  |    |    |    | 2  |    | +  |    | 1  |    |    |    |    |    |
| <i>Acer campestre</i>             | 2 |   |    |    |    | 2  |    |   |   | 3  | 2  | 1  |    | 1 | + | + |   |   | 1  |    |    |    | 1  |    |    |    |    |    |    |    |    |    |
| <i>Ulmus minor</i>                | + | 1 | 1  |    | 1  | +  |    | 2 | 1 |    |    |    |    |   |   |   |   |   |    |    |    |    | +  |    |    |    |    |    |    |    |    |    |
| <i>Celtis australis</i>           | 2 | + | 1  |    |    | 1  |    | 2 |   |    |    |    |    |   |   |   |   |   |    |    |    |    | +  |    |    | 2  |    |    |    |    |    |    |
| <i>Asparagus acutifolius</i> (Qi) | 1 | + |    |    |    |    | +  | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |
| <i>Acer pseudoplatanus</i>        |   |   | +  |    |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    | +  |    | 1  |    |    |    |    |    |    |    |    |
| <i>Fraxinus excelsior</i>         |   |   |    |    |    |    |    |   | + |    |    |    |    |   |   |   |   |   |    |    |    |    |    | 2  |    |    |    | 2  |    |    |    |    |
| <i>Lonicera peryclimenum</i>      |   |   |    |    |    |    | 1  |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |
| <i>Sorbus domestica</i>           |   |   |    |    |    |    |    |   | r |    |    |    |    |   |   |   |   |   |    |    |    |    | r  |    |    |    |    |    |    |    |    |    |
| <i>Castanea sativa</i>            |   |   |    |    |    |    | r  |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Ostrya carpinifolia</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    | +  |    |    |    |    |    |    |    |    |    |
| <i>Quercus ilex</i> (Qi)          |   |   |    |    |    | +  |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>C - herb layer</b>             |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Acer campestre</i>             | + | 1 |    | +  |    | 1  |    |   | 1 | 1  | 1  | 1  | 1  | + | r | + | + | + | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  |    |    |
| <i>Fraxinus ornus</i>             |   | 1 | 2  | 2  | +  | +  | r  | + | + | 1  | 1  | 1  | 1  | + |   | + | + |   |    |    |    |    | r  | 2  |    |    |    |    |    |    |    |    |
| <i>Celtis australis</i>           | 1 | 1 | 1  | +  |    | +  | +  | 1 |   |    |    | r  | r  |   |   |   |   | + |    |    |    |    | 1  |    |    |    | +  |    |    |    |    |    |
| <i>Quercus pubescens</i>          |   |   | +  |    |    | +  |    | + | 1 | 1  | +  | 1  | +  | + | r | r |   | + |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Ulmus minor</i>                | + | + | 1  | 1  | +  |    | +  | 2 | 1 | r  |    |    |    |   | 1 |   |   |   |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |
| <i>Castanea sativa</i>            |   |   |    |    |    |    |    |   | + | r  |    |    | r  |   |   | r |   |   |    |    |    | +  | r  | +  | +  |    |    |    |    |    |    |    |
| <i>Acer pseudoplatanus</i>        |   |   |    |    |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    | +  | +  | r  | 1  | +  |    |    |    |    |    |    |
| <i>Viola alba</i>                 |   |   | 1  |    | 1  |    |    |   | + | 1  | 1  |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Viola riviniana</i>            |   |   |    |    |    |    | r  |   |   | 1  |    |    |    |   |   |   |   |   |    |    |    | r  | +  |    |    |    |    |    |    |    |    |    |
| <i>Ostrya carpinifolia</i>        |   | + |    |    |    |    |    |   |   |    |    |    |    |   |   |   | 1 |   |    |    |    |    | r  | +  |    |    |    |    |    |    |    |    |
| <i>Asparagus tenuifolius</i>      |   |   |    |    |    |    | +  |   |   | r  |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    | +  |    |    |    |    |    |    |

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| Stand n°                       | 1 | 3 | 22 | 11 | 15 | 12 | 16 | 8 | 9 | 19 | 21 | 24 | 25 | 2 | 4 | 5 | 6 | 7 | 10 | 23 | 28 | 31 | 20 | 13 | 18 | 17 | 14 | 26 | 27 | 29 | 30 | 32 |
|--------------------------------|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <i>Helleborus viridis</i>      |   |   |    |    |    |    |    | + |   |    |    |    |    |   |   |   |   |   |    |    |    |    | 2  |    | +  |    |    |    |    |    |    |    |
| <i>Primula vulgaris</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   | r |   |   |   |    |    |    |    |    | 1  |    | +  |    |    |    |    |    |    |
| <i>Pulmonaria officinalis</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    | + | 1 |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1  |    |    |
| <i>Quercus petraea</i>         |   |   |    |    |    |    |    | + |   | +  |    |    |    |   |   |   |   |   |    |    |    |    |    |    | +  |    |    |    |    |    |    |    |
| <i>Knautia drymeia</i>         |   |   |    |    |    |    |    |   |   |    |    |    |    | + | r |   |   |   |    |    |    |    |    |    |    |    |    |    |    | +  |    |    |
| <i>Fraxinus excelsior</i>      |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    | 2  |    |    |    |    |    | 1  |    |
| <i>Anemone nemorosa</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    | +  | 1  |    |    |    |    |    |    |    |
| <i>Brachypodium sylvaticum</i> |   |   |    |    |    |    |    |   |   |    |    |    |    | 3 |   |   |   |   |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |
| <i>Carpinus betulus</i>        |   |   |    |    |    |    |    | + |   |    |    |    |    |   | + |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Festuca heterophylla</i>    |   |   |    |    |    |    |    |   |   |    |    |    |    |   | + | r |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Salvia glutinosa</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 2  |    |    |
| <i>Quercus ilex</i> (Qi)       |   |   |    |    |    |    |    | r |   |    |    |    |    | + |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Sorbus domestica</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    | r  |    |    |    |    |    |    |    |
| <i>Prunus mahaleb</i>          |   |   |    |    |    |    |    |   |   |    |    |    |    | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Charact. species of Rhamno-Prunetea Rivas Goday & Borja ex Tüxen 1962**

**B - shrub layer**

|                           |   |   |   |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |
|---------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|--|---|---|---|---|---|---|---|--|---|---|---|---|---|--|
| <i>Clematis vitalba</i>   |   |   | + |   |   |   |   |   |   |   |  |  |  | + | + | 2 | 1 | + |  |   | 1 | 1 |   |   | 1 |   |  |   | + |   |   |   |  |
| <i>Cornus mas</i>         | 2 |   |   |   |   | + | 2 |   | 2 | + |  |  |  | 2 |   |   |   |   |  | + |   | 1 |   |   |   |   |  |   |   | + |   |   |  |
| <i>Crataegus monogyna</i> | 1 | 2 |   |   | + | 2 | 1 |   |   |   |  |  |  |   |   | 1 |   |   |  |   | 2 |   |   |   |   |   |  |   |   | + |   |   |  |
| <i>Corylus avellana</i>   |   |   |   |   |   |   |   |   |   |   |  |  |  | 1 |   | 1 | 1 |   |  |   |   | 2 |   | 1 |   | + |  | 2 |   |   |   |   |  |
| <i>Euonymus europaeus</i> |   |   | + |   |   |   |   |   |   |   |  |  |  |   | + |   |   |   |  | 1 |   |   | + |   |   |   |  |   |   | 1 |   |   |  |
| <i>Ligustrum vulgare</i>  |   | + | 1 |   |   |   |   |   |   |   |  |  |  |   | + |   | + | + |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |
| <i>Rosa canina</i>        |   |   |   | 1 | 1 |   |   |   |   |   |  |  |  |   |   |   |   |   |  |   |   |   |   |   |   |   |  |   |   | + | + | 1 |  |
| <i>Prunus mahaleb</i>     |   | + | 1 |   |   |   |   |   |   |   |  |  |  |   |   |   | r |   |  |   |   |   |   | r |   |   |  |   |   |   |   |   |  |
| <i>Prunus spinosa</i>     |   |   |   |   |   |   |   | + |   |   |  |  |  |   | r |   |   |   |  |   | + |   |   |   |   |   |  |   |   |   | + |   |  |
| <i>Prunus avium</i>       |   |   |   |   |   |   |   |   | 1 | 1 |  |  |  |   |   |   |   |   |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |

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|-----------------------------|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <i>Cornus sanguinea</i>     |   |   | 1  |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>C - herb layer</b>       |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Clematis vitalba</i>     |   | + | +  | +  | +  | +  | +  |   |   | 1  |    | 1  |    |   |   | 1 |   | + |    | 1  |    | 1  |    |    |    |    |    | +  |    | 2  |    |    |
| <i>Corylus avellana</i>     |   |   |    |    |    |    |    |   |   | +  | +  | 1  | +  |   |   | + | + | + |    | +  | +  | +  | +  | r  | +  | 1  |    |    |    |    |    |    |
| <i>Cornus mas</i>           | 1 | + |    | +  | +  | 1  |    |   |   | +  | 1  | 1  | 2  |   |   | + |   | 1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Euonymus europaeus</i>   | + | + | r  | 1  |    |    |    | + |   |    | 1  | 1  |    |   |   | 1 | 2 | 2 |    |    |    |    |    | r  |    |    |    |    |    |    |    |    |
| <i>Ligustrum vulgare</i>    | + | 2 | 2  | +  | 1  | +  | +  |   |   | 1  |    | +  |    |   |   |   |   |   |    |    |    |    |    | +  | 2  |    |    |    |    |    |    |    |
| <i>Crataegus monogyna</i>   | + | + |    |    | 1  |    | +  |   | r |    |    |    | 1  | + |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Prunus mahaleb</i>       |   | 1 | 1  |    |    |    | +  |   |   |    |    | +  |    |   | + |   |   |   |    |    |    | +  |    |    |    |    |    |    |    |    |    |    |
| <i>Prunus avium</i>         | r |   | r  |    |    |    |    |   | + | +  |    |    |    | r |   |   | r |   |    | 1  |    |    |    |    |    |    |    |    |    | 1  |    |    |
| <i>Rosa canina</i>          |   |   |    | +  |    |    |    |   |   |    | r  |    |    |   |   |   |   |   |    |    |    |    |    | +  |    |    |    |    |    |    |    |    |
| <i>Cornus sanguinea</i>     |   | 1 | 1  |    |    | +  |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Prunus spinosa</i>       |   |   |    |    | +  |    |    |   | + |    |    | +  |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Emerus majus/majus</i>   |   | + | r  |    |    |    |    |   |   |    | r  |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Lonicera caprifolium</i> |   |   |    |    |    |    | r  |   |   |    |    |    |    |   |   | + |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Lonicera xylosteum</i>   |   |   | +  |    |    |    |    |   |   |    | 2  |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>Other species</b>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <b>A - tree layer</b>       |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Morus alba</i>           | 2 | 3 |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Juglans regia</i>        |   |   | 1  |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Ligustrum lucidum</i>    |   | + |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Ficus carica</i>         |   |   |    | 1  |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Juglans nigra</i>        |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    | +  |    |    |    |    |    |    |
| <b>B - shrub layer</b>      |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <i>Humulus lupulus</i>      | 1 |   |    |    | +  |    |    |   | + | +  |    |    |    |   | 1 |   |   |   | 1  |    |    |    |    |    |    |    | 1  | 1  |    |    |    |    |
| <i>Juglans regia</i>        |   |   |    |    |    |    |    |   | 1 | 1  | 1  |    |    |   |   |   |   |   |    |    |    |    |    |    | r  | +  |    |    |    |    |    |    |

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|------------------------------------|---|---|----|----|----|----|----|---|---|----|----|----|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|--|
| <i>Ligustrum lucidum</i>           |   | + |    |    |    | 1  |    |   | 1 |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Parthenocissus quinquefolia</i> |   |   |    |    |    |    |    |   |   |    |    |    |    |   | + |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | 2  |   |   |  |
| <i>Morus alba</i>                  |   |   |    |    |    |    |    | 1 |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Ficus carica</i>                |   |   |    |    |    |    |    |   |   |    |    |    |    |   | 1 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <b>C - herb layer</b>              |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Viola hirta</i>                 |   |   | +  |    |    | +  | 1  |   |   | 1  | 1  | +  | 1  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | 1  |    |   |   |  |
| <i>Juglans regia</i>               |   |   |    |    |    |    |    |   |   |    | 1  | +  | 1  | + |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    | +  |    |   |   |  |
| <i>Duchesnea indica</i>            |   |   |    |    |    |    |    |   |   |    | +  | 3  |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | +  | 2  | 1  |   |   |  |
| <i>Humulus lupulus</i>             |   |   |    |    |    |    |    |   |   |    | 1  |    |    |   |   |   |   |   |    |    |    | +  |    |    |    |    |    |    |    |    |    | 2  | 1 |   |  |
| <i>Ligustrum lucidum</i>           |   | + |    |    |    | 1  |    |   | 1 |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Laurus nobilis</i>              |   |   |    |    |    |    |    |   |   |    |    |    |    |   | r |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Ligustrum ovalifolium</i>       |   |   |    |    |    |    |    |   |   |    |    |    |    |   | r |   |   | 2 |    | r  |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Brachypodium rupestre</i>       |   |   |    |    |    |    |    |   |   |    |    | +  | 1  |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Potentilla reptans</i>          |   |   |    |    |    |    |    |   |   |    |    | 1  |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1 |   |  |
| <i>Ficus carica</i>                |   |   | +  |    |    |    |    |   |   |    | 1  |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Fragaria vesca</i>              |   |   |    |    |    |    |    |   |   |    | 1  |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | +  |   |   |  |
| <i>Juglans nigra</i>               |   |   |    |    | +  |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | r  |   |   |  |
| <i>Vincetoxicum hirundinaceum</i>  |   |   |    |    |    |    |    |   |   |    |    |    |    |   | + |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   | + |  |
| <i>Muscaris comosum</i>            |   |   |    |    |    | r  |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2 |   |  |
| <i>Polypodium vulgare</i>          |   |   | r  |    |    |    |    |   |   |    |    |    |    |   |   |   |   | + |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Prunus serotina</i>             |   | + |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | r  |   |   |  |
| <i>Silene dioica</i>               |   |   |    | r  |    |    |    |   |   | 2  |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Solanum dulcamara</i>           |   |   |    |    |    |    |    |   | 1 | +  |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |
| <i>Ranunculus bulbosus</i>         |   |   |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    | +  |   | + |  |
| <i>Morus alba</i>                  |   | 1 |    |    |    |    |    |   |   |    |    |    |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |  |

**Tab. S2** (legend) - In one single layer in only one stand: rel. 16 – *Allium ursinum* 4, *Mercurialis perennis* 1, *Ranunculus acris* 1; rel. 8 – *Sorbus torminalis* 1, *Mespilus germanica* 1, *Asplenium adiantum-nigrum* +; rel. 14 – *Fumaria officinalis* +, *Veronica hederifolia* 2, *Vicia hirsuta* +; rel. 28 – *Crepis setosa* +, *Phytolacca americana* 1; rel. 26 – *Hordeum murinum* 3; rel. 9 – *Carex depauperata* +; rel. 20 – *Anemone trifolia* +, *Aposeris foetida* 1, *Epimedium alpinum* 1, *Hepatica nobilis* 1, *Symphytum tuberosum* +, *Chenopodium album* +; rel. 18 – *Asarum europaeum* 1, *Oxalis acetosella* 1; rel. 13 – *Oxalis stricta* 1; rel. 19 – *Galium laevigatum* +, *Allium oleraceum* 1, *Galium mollugo* +, *Rumex acetosa* r, *Cirsium arvense* +, *Polygonum aviculare* +, *Eupatorium cannabinum* +; rel. 6 – *Asplenium trichomanes* +; rel. 24 – *Cephalanthera rubra* r, *Euonymus latifolius* 1, *Micelys muralis* r, *Prunus cfr. padus* r, *Quercus robur* r, *Diospyros lotus* 1, *Scabiosa columbaria* agg. r; rel. 30 – *Carex flacca* +, *Filipendula vulgaris* +, *Hieracium pilosella* r, *Holcus lanatus* +, *Heracleum sphondylium* r; rel. 21 – *Cruciata glabra* 1, *Galeopsis speciosa* r, *Oxalis corniculata* 1; rel. 5 – *Quercus cerris* r, *Iris* sp. pl. +; rel. 7 – *Stellaria nemorum* +; rel. 22 – *Carex alba* 2, *Polygonatum multiflorum* r, *Viburnum lantana* 1, *Verbascum lychnitis* 1, *Syphoricarpos albus* +; rel. 12 – *Festuca gigantea* 1, *Clematis recta* r, *Parietaria judaica* +, *Valeriana officinalis* r, *Trachycarpus fortunei* +; rel. 29 – *Allium vineale* +; rel. 23 – *Melilotus officinalis* 1, *Medicago sativa* +, *Plantago major* +; rel. 27 – *Geranium sanguineum* +, *Elymus repens* 3; rel. 1 – *Chaerophyllum temulum* 1, *Euonymus fortunei* 2, *Pyrus communis* +; rel. 32 – *Equisetum arvense* 1, *Lamium purpureum* +, *Equisetum ramosissimum* 1; rel. 17 – *Arabis turrita* +, *Laburnum anagyroides* +, *Tilia platyphyllos* +, *Vinca minor* 1, *Clematis* sp. pl. +, *Lolium perenne* +, *Ornithogalum brevistylum* r, *Hypericum perforatum* r; rel. 31 – *Sonchus oleraceus* agg. r; rel. 11 – *Arum maculatum* r, *Cephalanthera damasonium* 1, *Stachys recta* r

**Tab. S3** - Land cover within 500-meters surroundings of the 32 *Robinia* plots.

| Stand n° | Urban areas % | Cultivated land % | Grassland % | Woodland % | Other % |
|----------|---------------|-------------------|-------------|------------|---------|
| 1        | 36.3          | 42.9              | 3.9         | 16.9       | 0       |
| 2        | 1.1           | 39.3              | 11.6        | 48         | 0       |
| 3        | 10.4          | 35.9              | 18.6        | 35.1       | 0       |
| 4        | 41.1          | 28.6              | 15.9        | 14.1       | 0.2     |
| 5        | 2.5           | 50                | 1.6         | 45.9       | 0       |
| 6        | 9.9           | 20.5              | 3.8         | 65.7       | 0       |
| 7        | 8.8           | 32                | 3           | 56.2       | 0       |
| 8        | 4             | 16.4              | 6.6         | 73         | 0       |
| 9        | 3.7           | 43.9              | 0.8         | 51.6       | 0       |
| 10       | 11.4          | 42.1              | 5.2         | 41.3       | 0       |
| 11       | 12.1          | 21.2              | 29.6        | 37.1       | 0       |
| 12       | 23.2          | 65.6              | 1.8         | 8.5        | 0.9     |
| 13       | 13.8          | 7.7               | 23          | 55.5       | 0       |
| 14       | 12.1          | 29                | 14.2        | 44.8       | 0       |
| 15       | 2.5           | 14.3              | 26.5        | 56.7       | 0       |
| 16       | 18.6          | 26.4              | 11.8        | 43.2       | 0       |
| 17       | 7.8           | 4.4               | 41.4        | 46.4       | 0       |
| 18       | 15.6          | 11.7              | 24.1        | 48.6       | 0       |
| 19       | 2.2           | 9.8               | 11          | 77.1       | 0       |
| 20       | 14.5          | 11.1              | 36.3        | 38.1       | 0       |
| 21       | 26.9          | 8.2               | 17.6        | 47.3       | 0       |
| 22       | 16            | 38.4              | 6.5         | 32.2       | 6.8     |
| 23       | 10.4          | 69.4              | 0           | 20.2       | 0       |
| 24       | 3.9           | 4.5               | 10.7        | 80.9       | 0       |
| 25       | 15.1          | 23.6              | 34.3        | 27         | 0       |
| 26       | 4.9           | 24.4              | 10.1        | 60.6       | 0       |
| 27       | 14.6          | 48.5              | 2           | 34.9       | 0       |
| 28       | 13            | 42.7              | 0.7         | 43.5       | 0       |
| 29       | 19.4          | 67.1              | 2.8         | 10.6       | 0       |
| 30       | 2.2           | 0.4               | 5           | 92.4       | 0       |
| 31       | 10.6          | 24                | 34          | 31.4       | 0       |
| 32       | 1.1           | 0                 | 25.7        | 73.2       | 0       |