**Appendix 1**

**Allocation of experimental plots (1–11) on the territory of the Kórnik Arboretum, Poland** (figure was used in previous publication)



**Appendix 2**

**Characteristic features of the experimental plots**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No EP** | **Type and class of soil** | **Area of loci of *H. helix*, m2** | **Projective cover of*****H. helix*, %** | **Keystone species of herb layer** | **Keystone species of tree layer** |
| 1 | brown forest, sand | 1320 | 75 | *Aegopodium podagraria* L.*Festuca rubra* L.*Fragaria vesca* L. *Malva sylvestris* L. | *Quercus robur* L. *Fraxinus excelsior* L. |
| 2 | low moor peat, peal | 1674 | 95 | *Pteridium aquilinum* (L.) Kuhn *Mercurialis perennis* L.*Geum urbanum* L.*Aegopodium podagraria* L.*Filipendula vulgaris* Moench. | *Quercus rubra* L. *Gleditsia triacanthos* L. *Acer pseudoplatanus* L. |
| 3 | low moor peat, peal | 870 | 99 | *Pteridium aquilinum* (L.) Kuhn | *Taxus baccata* L. *Picea abies* (L.) H. Karst. |
| 4 | low moor peat, peal | 1136 | 63 | *Melica uniflora* Retz.*Stenactis annua* Nees *Bromopsis ramosa* (Huds.) Holub *Elytrigia repens* (L.) | *Tilia cordata* Mill. *Acer platanoides* L. |
| 5 | anthropogenic soil, loamy sand | 1008 | 85 | *Mercurialis perennis* L.*Fragaria vesca* L. *Aegopodium podagraria* L. | *Taxus baccata* L. *Picea abies* (L.) H. Karst.*Pinus nigra* J.F. Arnold |
| 6 | anthropogenic soil, very fine sand | 876 | 88 | *Geum urbanum* L.*Aegopodium podagraria* L.*Bromus sterilis* (L.) Nevski*Fragaria vesca* L. *Urtica dioica* L. | *Carpinus betulus* L.*Acer pseudoplatanus* L.*Acer saccharinum* L. *Larix decidua* Mill. |
| 7 | anthropogenic soil, sand | 1235 | 90 | *Melica uniflora* Retz.*Glechoma hederacea* L.*Impatiens parviflora* DC.*Geranium robertianum* L. *Humulus lupulus* L. | *Acer platanoides* L.*Quercus robur* L.  |
| 8 | anthropogenic soil, clay loam | 780 | 75 | *Bromus sterilis* (L.) Nevski*Fragaria vesca* L. *Impatiens parviflora* DC.*Elytrigia repens* (L.)*Ficaria verna* Huds. | *Fagus sylvatica* L.*Acer platanoides* L.*Betula pendula* Roth |
| 9 | gley-podzolic soil, sand | 845 | 70 | *Geum urbanum* L.*Malva sylvestris* L.*Galium verum* L.*Urtica dioica* L.*Galeobdolon luteum* Huds. | *Fraxinus excelsior* L.*Quercus robur* L. *Tilia americana* L. |
| 10 | erosional belt soil with accumulation process, very fine sand | 355 | 55 | *Bromus sterilis* (L.) Nevski*Geum urbanum* L.*Melica uniflora* Retz.*Melica angustifolium* (L.)*Elytrigia repens* (L.)*Galium verum* L.*Stenactis annua* Nees *Urtica dioica* L. | *Taxus baccata* L. *Carpinus betulus* L.*Acer platanoides* L. |
| 11 | erosional belt soil with denudation process, silt | 1450 | 95 | *Geranium robertianum* L. *Chamaenerion angustifolium* (L.) Scop.*Galeobdolon luteum* Huds*Impatiens parviflora* DC.*Geum urbanum* L. | *Acer platanoides* L.*Quercus rubra* L. *Quercus robur* L. *Betula pendula* Roth |