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Importance of The Plants for Sustainable Ecotourism Activities: Mountain Phrygia

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ABSTRACT

Study area named as Mountain Phrygia is located in the borders of Eskişehir, Afyon and Kütahya provinces so it includes many ecotourism area. According to the grid system of Davis, the whole part of the study area is in the B3 square. Floristic diversity of study area was identified according to the performed excursion studies between the years of 2012 to 2015 and recent literatures. In the light of habitat and floral diversity of study area, Floral calendar of Phrygian walking way was created. Besides, some nature conservation precautions were suggested for ecotourism activites based upon excursion studies and observations.

Keywords: Flora, Phrygia, Eskişehir, Kütahya, Afyon

INTRODUCTION

Tourism is one of the sectors with high economic returns and it is one of the important income sources for many countries. While the sense of tourism in the past has been merely consisted of sea, sand and sun, with the globalization, people's view of tourism has changed considerably. Today, easy access to information by means of increasing environmental and nature awareness, has led tourists to seek for different tourism alternatives. Thus, regions like Anatolia, which contains unique historical, cultural and natural riches, have come forward as ecotourism centers and have an important share in the tourism revenues of the countries. The desire to have a holiday intertwined with historical and cultural values in a clean and unspoiled environment, which is integrated with nature, clearly replaces the understanding of classical tourism. This new understanding of tourism, called ecotourism, is rapidly advancing towards becoming today's rising tourism trend (Ceballos-Lascurain, 1996; Çevirgen, 2004).

However, unconscious ecotourism activities to meet increasing tourist demands are damaging the historical texture and environment. Moreover, our unique cultural and natural values are often destroyed irreversibly. At this point, to ensure sustainability in ecotourism is among the development of ecotourism strategies that are indispensable for nature and environment friendly tourism, protecting our historical and cultural heritage. At this point, the importance of developing ecotourism strategies that protect our nature and environment, historical and cultural heritage is emerging. This is only possible with the so-called 'Integrated protection'. This process involves the preservation of the historical texture and environment with all its elements and dimensions. Moreover, this process expresses ecotourism strategies that improve the social and economic structures of the people of the region and create employment and added value in order to ensure sustainability. Unfortunately, it is not possible to develop eco-friendly ecotourism strategies without fully knowing our biodiversity. The first step in determining the biodiversity of a region is the floral and faunal studies of that region (Demir ve Çevirgen, 2006; Erdoğan, 2008; Sağıroğlu ve Karayazı, 2017).

The area, which spreads over the region within the borders of Eskişehir, Kütahya and Afyon provinces and contains historical ruins and antique works bearing traces of Phrygian civilization, is called Mountain Phrygian (Phrygian Valleys). The region, which was home to Phrygian civilization between the 12th and

7th centuries BC, contains many ancient cities and archaeological remains. However, Roman and Byzantine societies lived in the region and historical monuments of these societies are also frequently encountered in the region. When the richness of the region is considered in terms of both cultural and natural resources, it is better understood how important the region is in terms of nature and cultural tourism.

The aim of this study is to evaluate the floristic diversity data of the Mountain Phrygian region and to provide a resource for future natural ecotourism practices in the region. Another aim of this study is to create the floristic calendar of the region and to increase the awareness of tourists on the unique plant diversity of Phrygian Valley.

MATERIALS AND METHODS

In the scope of the study, especially during the determination of terrain routes, the Phrygian valleys and their environment in the study area were taken into consideration. For this purpose, the Phrygian road walking routes in which the ecotourism activities are intensified are taken as reference in the "Phrygian Way Guide Book" written by Hüseyin Sarı in 2013. Between 2012 and 2015, 2214 plant samples were collected from 94 locaties in all seasons of the year and so habitat types were identified.

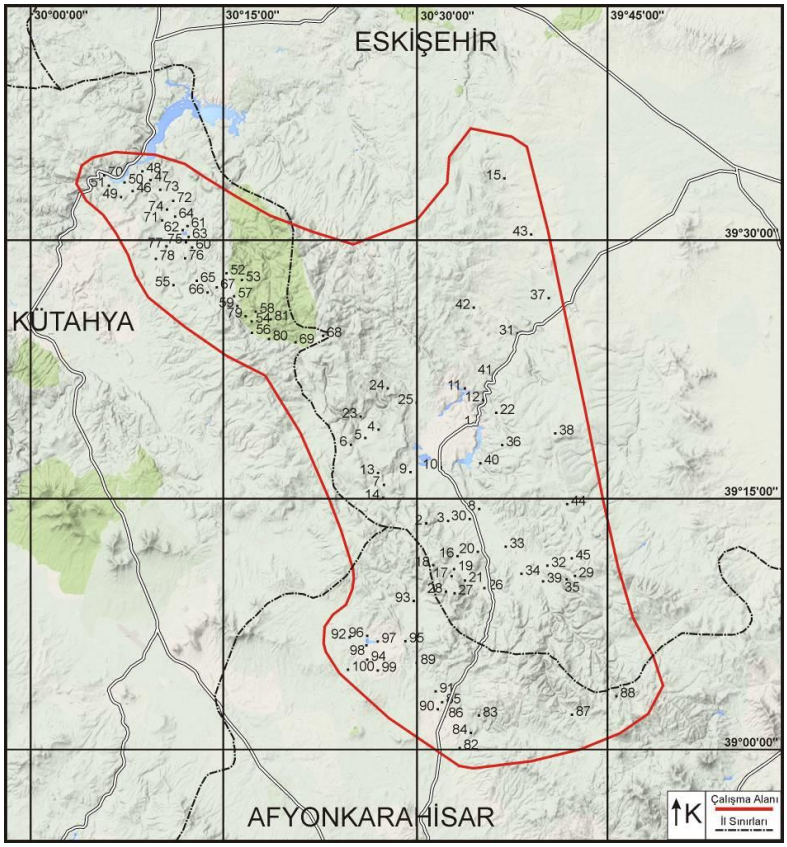

Fig. 1. The map of the study area (Numbers indicates the localities)

RESULTS AND DISCUSSION

From September 2012 to August 2015, a total of 94 days of fieldwork was carried out in the research area. As a result of the field studies, 2214 veined plant samples were collected. At the end of the identification of

these samples, totally 855 taxa (834 species, 18 subspecies and 3 varieties) belonging to 390 genera from 80 families were identified.

The first factor affecting the distribution of plant taxa is altitute. The localities where 855 taxa were determined from the study area were grouped according to their heights and 7 different height classes were formed by us. Another factor which is effective in the distribution of plant taxa is habitat characteristics. In this context, 11 habitat groups were generally determined by us when the habitat characteristics of taxa collected from the study area were examined. The taxa identified from the study area were first grouped according to the elevation preferences. Then, taxa under each height group were re-grouped according to their habitat preferences. In addition, the months when each taxon was determined in the field were indicated in brackets next to the taxon name. Again under habitat classes, taxa are grouped according to their date of occurrence in the field (Fig. 2 and Table 1).

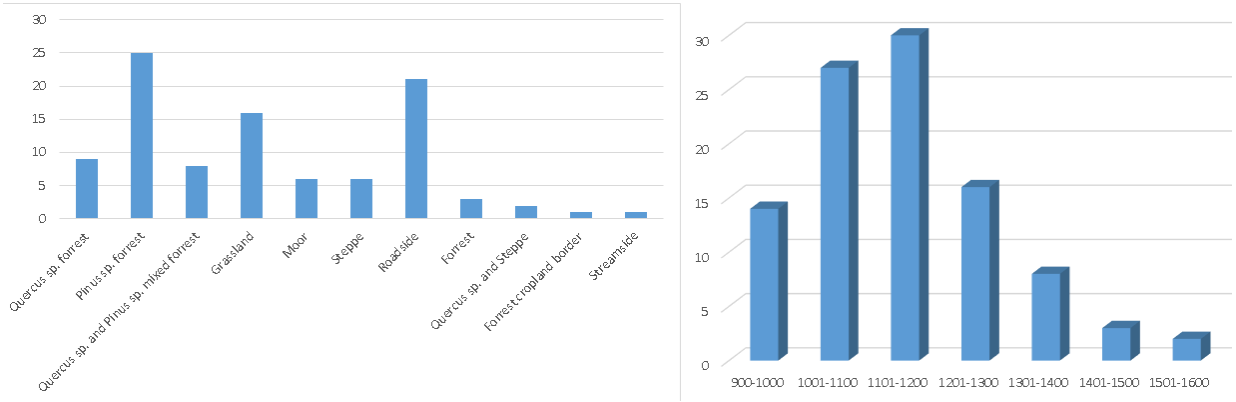

Fig. 2. a) Distribution of the plant localities in habitat classes, b) Distribution of the plant localities in altitude classes

The main purpose of this table is to provide an estimated taxon list that can be encountered when the height and habitat data are known at any point on the Phrygian walking route. The biggest problem encountered in the creation of this table is the endemic taxa with narrow distribution area. In particular, neoendemic taxa are distributed in too limited areas, causing errors in the lists. For example, a taxon determined from a single locality in the study area shows the result as if it exists everywhere in its current height and habitat characteristics. From this it can be clearly stated that such tables to be used by plant enthusiasts in ecotourism activities give healthy results especially when large spread taxa are used. This is actually an advantage. Because the identification of rare endemic taxa by tourists without a guide increases the possibility of damaging the natural populations of these taxa.

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Table 1. Possible taxa forecast table according to the altitude, habitat and vegetation time data of Phrygian valley.

Alt.	***Habitat***	***Taxa***
900-1000	***Pinus* sp. forrest**	*Gagea bohemica (2), Turritis glabra (4), Legousia speculum-veneris (4), Scorzonera suberosa (4), Taraxacum campylodes (4), Valeriana dioscoridis (4), Artedia squamata (4), Cynoglossum montanum (4), Arum elongatum (6), Ornithogalum narbonense (6), Koeleria pyramidata (6), Genista sessilifolia (6), Lotononis genistoides (6), Securigera varia (6), Hypericum origanifolium* var. *depilatum (6), Chenopodium murale (6), Clinopodium graveolens subsp. rotundifolium (6), Salvia aethiopis (6), Sideritis montana (6), Orobanche ramosa (6), Achillea phrygia (6), Cota tinctoria (6), Cyanus depressus (6), Leontodon asperrimus (6), Tragopogon porrifolius (6), Tragopogon dubius (6), Rumex acetosella (6), Atriplex lasiantha (6), Onosma roussaei (6), Berula erecta (6), Bupleurum flavum (6), Alyssum obtusifolium (6), Trifolium pratense (8), Xeranthemum annuum (8), Echinophora tournefortii (8), Artemisia santonicum (8), Centaurea virgata (8), Falcaria vulgaris (8), Xanthium strumarium (10)*
	Grassland	*Scrophularia scopolii (4), Salix caprea (4), Calamagrostis pseudophragmites (6), Armeria cariensis (6), Parietaria judaica (6), Consolida orientalis (6), Lathyrus pratensis (6), Rumex conglomeratus (6), Myosotis laxa* subsp. *caespitosa (6), Lycopus europaeus (6), Sideritis montana (6), Stachys cretica subsp. anatolica (8), Xanthium spinosum (10)*
	Steppe	*Lathyrus inconspicuus (4), Centranthus calcitrapa (4), Erysimum repandum (4), Saponaria chlorifolia (4), Saponaria prostrata (4), Vaccaria hispanica (4), Rhamnus thymifolia (4), Alyssum minutum (4), Clypeola jonthlaspi (4), Oenanthe silaifolia (4), Linum nodiflorum (6), Verbascum georgicum (6), Ziziphora taurica (6), Torilis leptophylla (6), Briza humilis (6), Lolium rigidum (6), Poa sterilis (6), Umbilicus luteus (6), Ebenus cappadocica (6), Salsola kali* subsp. *ruthenica (6), Convolvulus holosericeus (6), Ajuga salicifolia (6), Achillea nobilis* subsp. *neilreichii (6), Phleum bertolonii (6), Moltkia coerulea (6), Nepeta nuda* subsp. *albiflora (6), Scutellaria albida* subsp. *velenovskyi (6), Berula erecta (6), Anthyllis vulneraria* subsp. *boissieri (8), Galega officinalis (8), Galium incanum (8), Echium italicum (8), Veronica officinalis (8), Campanula ajugifolia (8), Pilosella pilisquama (8), Pierocephalus plumosus (8), Malva neglecta (8), Lysimachia vulgaris (8), Convolvulus compactus (8), Silene supina* subsp. *pruinosa (10), Juniperus oxycedrus (10), Asperula involucrata (10), Bothriochloa ischaemum (10)*
	Roadside	*Alyssum simplex (2), Stipa barbata (2), Globularia orientalis (2), Dorycnium graecum (4), Medicago rigidula (4-6), Euphorbia apios (4), Asperugo procumbens (4), Salvia argentea (4), Ornithogalum pyrenaicum (4), Briza humilis (4), Hypericum origanifolium (4), Erodium ciconium (4), Orobanche alba (4), Scutellaria orientalis* subsp. *pinnatifida (4), Alyssum strigosum (4), Camelina rumelica (4), Chelidonium majus (6), Ceratocephala falcata (6), Astragalus vulnerariae (6), Bryonia alba (6), Euonymus verrucosus (6), Salvia sclarea (6), Sideritis germanicopolitana* subsp. *viridis (6), Orobanche elatior (6), Heracleum platytaenium (6), Tulipa armena* var. *lycica (6), Ruta thesioides (6), Dianthus crinitus (6), Convolvulus lineatus (6), Hyoscyamus niger (6), Linaria corifolia (6), Scrophularia xanthoglossa (6), Thymus longicaulis* subsp. *chaubardii (6), Cyanus triumfettii (6), Picnomon acarna (6), Hordeum bulbosum (6), Glaucium grandiflorum (6), Nigella segetalis (6), Helianthemum oelandicum* subsp. *incanum (6), Amaranthus albus (6), Taraxacum serotinum (6), Bunium ferulaceum (6), Lamium orientale (6), Scorzonera elata (6), Poa sterilis (8), Galium subuliferum (8), Arctium minus (8), Salvia virgata (8), Echinophora tenuifolia* subsp. *sibthorpiana (8), Teucrium polium (8), Inula heterolepis (8), Chenopodium album (8), Scabiosa argentea (10), Bothriochloa ischaemum (10)*
1001-1100	***Quercus* sp. forrest**	*Colchicum atticum (2), Lepidium draba (4), Bifora radians (4), Allium hirtovaginatum (4), Boreava orientalis (4), Conringia clavata (4), Conringia orientalis (4), Veronica pectinata (4), Veronica chamaedrys (4), Chorispora purpurascens (4), Crepis commutata (4), Prunus domestica (4), Draba muralis (4), Silene lydia (4), Cirsium vulgare (4), Artedia squamata (4), Helichrysum arenarium* subsp. *aucheri (6), Astrantia maxima (6), Aegilops triuncialis (6), Agropyron cristatum* subsp. *pectinatum (6), Astragalus condensatus (6), Galium incanum (6), Berula erecta (6), Eryngium campestre (6), Dianthus micranthus (6), Herniaria incana (6), Galium subuliferum (6), Linaria genistifolia (6), Nepeta italica (6), Sedum acre (6), Sanguisorba minor (6), Alyssum murale (6), Galium incanum (6), Salvia bracteata (6), Sanguisorba minor* subsp. *balearica (6), Silene dichotoma (6), Verbascum flavidum (6), Xeranthemum inapertum (6), Hypericum adenotrichum (6), Ornithogalum pyrenaicum (6), Lolium perenne (6), Consolida raveyi (6), Sedum hispanicum (6), Geum urbanum (6), Jasione heldreichii (6), Fumana aciphylla (6), Polygonum cognatum (8), Trifolium repens (8), Helianthemum oelandicum* subsp. *incanum (8), Heliotropium europaeum (8), Helichrysum graveolens (8), Erysimum cuspidatum (8), Silene compacta (8), Cichorium intybus (8), Marrubium astracanicum (8), Teucrium chamaedrys (8), Stipa bromoides (8), Verbascum cheiranthifolium (8), Salvia aethiopis (8), Melilotus officinalis (8), Consolida regalis (8), Dipsacus laciniatus (8), Convolvulus arvensis (8), Conyza canadensis (10), Xanthium spinosum (10)*
	***Pinus* sp. forrest**	*Mentha aquatica (2), Scirpoides holoschoenus (4), Salix alba (4), Equisetum ramossisimum (6), Epipactis helleborine (6), Typha angustifolia (6), Myriophyllum spicatum (6), Coronilla scorpioides (6), Ebenus hirsuta (6), Euphorbia nicaeensis (6), Linum hirsutum (6), Linum hirsutum* subsp. *pseudoanatolicum (6), Dianthus zonatus (6), Campanula lyrata (6), Sonchus asper* subsp. *glaucescens (6), Butomus umbellatus (8), Convolvulus compactus (8), Digitalis ferruginea (8), Bidens tripartita (8), Hieracium pannosum (8), Portulaca oleracea (10), Gratiola officinalis (10), Linaria vulgaris (10), Mentha longifolia* subsp. *typhoides (10)*
	Grassland	*Colchicum sabuliferum (4), Alyssum dasycarpum (4), Veronica arvensis (4), Papaver lacerum (6), Alhagi pseudalhagi (6), Hesperis bicuspidata (6), Salvia absconditiflora (6), Tragopogon dubius (6), Rubus canescens var. glabratus (8), Lysimachia atropurpurea (8), Campanula ajugifolia (8), Xanthium strumarium (10)*
	Moor	*Trifolium campestre (2), Allium hirtovaginatum (4), Lathyrus laxiflorus (4), Pyrus communis (4), Geranium tuberosum (4), Lepidium draba (4), Scrophularia scopolii (4), Poa bulbosa (6), Delphinium peregrinum (6), Nigella arvensis* var. *involucrata (6), Ranunculus repens (6), Medicago fischeriana (6), Medicago sativa (6), Trifolium hybridum (6), Crataegus orientalis (6), Geranium pyrenaicum (6), Dianthus anatolicus (6), Echium italicum (6), Lamium garganicum (6), Phlomis armeniaca (6), Salvia virgata (6), Teucrium polium (6), Campanula lyrata (6), Pilosella piloselloides (6), Scorzonera cana* var. *jacquiniana (6), Tripleurospermum decipiens (6), Bifora radians (6), Erodium cicutarium (8), Prospero autumnale (8), Phedimus obtusifolius (8), Urtica dioica (8), Acantholimon acerosum (8), Silene italica (8), Achillea nobilis* subsp. *neilreichii (8), Chondrilla juncea (8), Scolymus hispanicus (8), Taraxacum serotinum (8)*
	Steppe	*Genista aucheri (4), Leontodon crispus* subsp. *asper (4), Allium lycaonicum (6), Hordeum bulbosum (6), Onobrychis oxyodonta (6), Vicia cracca* subsp. *stenophylla (6), Geranium collinum (6), Saponaria glutinosa (6), Convolvulus phrygius (6), Daucus guttatus (6), Alyssum sibiricum (6), Onosma isaurica (8), Ptilostemon afer* subsp. *eburneus(8)*
	Roadside	*Crocus danfordiae (2), Alyssum simplex (2), Corylus avellana (2), Prunus domestica (2), Polygonatum orientale (4), Sparganium erectum (4), Bromus tectorum (4), Cerasus avium (4), Erophila verna (4), Salvia viridis (4), Moenchia mantica (4), Ranunculus arvensis (4), Sisymbrium loeselii (4), Anchusa azurea (4), Ornithogalum montanum (4), Aegilops speltoides (4), Stipa barbata (4), Corydalis solida (4), Onobrychis gracilis (4), Geranium tuberosum (4), Rapistrum rugosum (4), Sisymbrium altissimum (4), Cerastium perfoliatum (4), Moltkia aurea (4), Gladiolus atroviolaceus (4), Ornithogalum orthophyllum (4), Hypecoum procumbens (4), Alyssum murale (4), Adonis annua (4), Parietaria judaica (4), Galium palustre (4), Petrorhagia cretica (4), Veronica officinalis (4), Briza media (6), Erysimum crassipes (6), Isatis glauca (6), Silene italica (6), Cruciata taurica (6), Galium verum (6), Picris strigosa (6), Sanguisorba minor* subsp. *balearica (6), Convolvulus holosericeus (6), Orobanche anatolica (6), Erodium absinthoides (6), Alyssum obtusifolium (6), Thesium billardierei (6), Cucubalus baccifer (6), Gypsophila pilosa (6), Telephium imperati* subsp. *orientale (6), Koelpinia linearis (6), Tragopogon latifolius (6), Conium maculatum (6), Malabaila secacul (6), Glaucium leiocarpum (6), Onobrychis oxyodonta* var. *armena (6), Trigonella spruneriana (6), Carduus nutans (6), Astragalus ponticus (6), Jasminum fruticans (6), Marrubium vulgare (6), Valerianella coronata (6), Rosularia chrysantha (6), Chenopodium murale (6), Verbascum basivelatum (6), Salvia tchihatcheffii (6), Allium paniculatum (6), Asphodeline taurica (6), Muscari tenuiflorum (6), Astragalus hirsutus (6), Vicia pannonica* var. *purpurascens (6), Alyssum sibiricum (6), Hirschfeldia incana (6), Dianthus anatolicus (6), Herniaria incana (6), Thymus longicaulis (6), Carthamus lanatus (6), Sanicula europaea (6), Glaucium corniculatum (6), Malva neglecta (6), Alyssum desertorum (6), Silene supina* subsp. *pruinosa (6), Alkanna tinctoria (6), Onosma taurica* var. *brevifolia (6), Phlomis armeniaca (6), Achillea santolinoides* subsp. *wilhelmsii (6), Falcaria vulgaris (6), Asphodeline taurica (6), Astragalus mesogitanus (6), Dianthus zonatus (6), Vincetoxicum fuscatum (6), Verbena officinalis (6), Matricaria sevanensis (6), Turgenia latifolia (6), Ebenus cappadocica (6), Acantholimon acerosum (6), Atraphaxis billardieri (6), Amaranthus albus (6), Chenopodium foliosum (6), Salsola kali* subsp. *ruthenica (6), Verbascum georgicum (6), Hordeum bulbosum (6), Koeleria pyramidata (6), Astragalus odoratus (6), Malus sylvestris* subsp. *orientalis (6), Cistus laurifolius (6), Pilosella procera (6), Sanguisorba minor (6), Haplophyllum myrtifolium (6), Polygonum bellardii (6), Galium odoratum (6), Verbascum flavidum (6), Quercus pubescens* subsp. *crispata (8), Cuscuta campestris (8), Eryngium campestre* var. *virens (8), Phragmites australis (8), Teucrium chamaedrys (8), Artemisia scoparia (8), Eryngium bithynicum (8), Clematis vitalba (8), Plumbago europaea (8), Carex distachya (8), Melica persica* subsp. *jacquemontii (8), Plantago major* subsp. *intermedia (8), Salvia candidissima (8), Sambucus ebulus (8), Seseli tortuosum (8), Origanum sipyleum (8), Sideritis galatica (8), Carthamus persicus (8), Astragalus strictispinis (8), Saponaria kotschyi (8), Satureja hortensis (8), Carlina oligocephala (8), Trifolium pratense (8), Capsella bursa-pastoris (10), Quercus trojana (10), Bothriochloa ischaemum (10), Inula britannica (10)*
	Forrest cropland border	*Gagea granatellii (2), Papaver rhoeas (4), Reseda lutea (4), Crambe tataria (4), Linaria simplex (4), Gladiolus illyricus (6), Clematis viticella (6), Lathyrus digitatus (6), Aethionema armenum (6), Silene conoidea (6), Crambe orientalis (6), Bupleurum rotundifolium (6), Delphinium venulosum (8), Polygonum amphibium (8), Echinops ritro (8)*
	Streamside	*Juniperus foetidissima (2), Cephalanthera longifolia (4), Ornithogalum armeniacum (4), Hesperis balansae (6), Valerianella vesicaria (6), Achillea arabica (8)*
1101-1200	***Pinus* sp. forrest**	*Buglossoides arvensis (2), Colchicum speciosum (2), Trifolium campestre (2), Allium scorodoprasum* subsp. *rotundum (4), Aristolochia pallida (4), Alcea apterocarpa (4), Lamium purpureum (4), Genista januensis* subsp. *lydia (4), Vinca major (4), Veronica pontica (4), Luzula forsteri (4), Allium paniculatum (6), Dactylis glomerata* subsp. *hispanica (6), Convolvulus arvensis (6), Globularia trichosantha (6), Asyneuma virgatum (6), Polygala vulgaris (6), Filipendula vulgaris (6), Hypericum linarioides (6), Myosotis sicula (6), Torilis ucranica (6), Allium atroviolaceum (6), Asphodeline damascena (6), Ranunculus trichophyllus (6), Medicago lupulina (6), Althaea officinalis (6), Cerastium banaticum (6), Cerinthe minor (6), Euphrasia pectinata (6), Astragalus stereocalyx (6), Euphorbia stricta (6), Silene italica (6), Quercus infectoria* subsp. *veneris (8), Epilobium hirsutum (8), Polygonum cognatum (8), Anagallis arvensis (8), Stachys annua (8), Artemisia campestris (8), Polygonum lapathifolium (8), Silene latifolia (8), Silene vulgaris (8), Salvia dichroantha (8), Pimpinella tragium* subsp. *lithophila (8), Mentha pulegium (8), Crocus pallasii (10)*
	***Quercus* sp. and *Pinus* sp. mixed forrest**	*Vicia villosa (2), Thlaspi perfoliatum (2), Veronica triphyllos (2), Mentha aquatica (2), Populus nigra (4), Raphanus sativus (4), Veronica anagallis-aquatica (4), Veronica hederifolia (4), Arabis sagittata (4), Lepidium draba (4), Myosotis ramosissima (4), Ranunculus peltatus* subsp. *fucoides (4), Veronica serpyllifolia (4), Scrophularia scopolii (4), Veronica pectinata (4), Gladiolus atroviolaceus (4), Pyrus communis (4), Salix caprea (4), Hypericum aviculariifolium (4), Conringia clavata (4), Turritis glabra (4), Veronica anagallis-aquatica (4), Tragopogon porrifolius* subsp. *longirostris (4), Linum cariense (6), Tamarix smyrnensis (6), Silene dichotoma* subsp. *racemosa (6), Telephium imperati* subsp. *orientale (6), Chenopodium album (6), Solanum dulcamara (6), Ajuga orientalis (6), Ornithogalum oligophyllum (6), Briza humilis (6), Genista aucheri (6), Hesperis kotschyi (6), Cerastium dichotomum (6), Dianthus zonatus (6), Globularia trichosantha (6), Phlomis pungens (6), Teucrium orientale (6), Legousia speculum-veneris (6), Filago germanica (6), Tripleurospermum decipiens (6), Equisetum palustre (6), Calamagrostis pseudophragmites (6), Thalictrum lucidum (6), Silene fabaria (6), Symphytum orientale (6), Cota tinctoria* var. *pallida (6), Lonicera etrusca (6), Myriophyllum spicatum (6), Trifolium physodes (6), Linum hirsutum* subsp. *anatolicum* var. *anatolicum (6), Ceterach officinarum (6), Cephalanthera epipactoides (6), Orchis mascula* subsp. *pinetorum (6), Papaver lacerum (6), Rosa canina (6), Sorbus umbellata (6), Scorzonera eriophora (6), Linum tenuifolium (8), Juniperus excelsa (8), Urtica dioica (8), Calystegia sepium (8), Achillea millefolium (8), Senecio mollis (8), Poa sterilis (8), Stipa barbata (8), Tribulus terrestris (8), Hypericum heterophyllum (8), Linaria genistifolia (8), Clinopodium vulgare (8), Pilosella × macrotricha (8), Dorycnium graecum (8), Malus sylvestris* subsp. *orientalis (8), Setaria viridis (8), Quercus cerris (8), Silene rhynchocarpa (8), Asperula involucrata (8), Melampyrum arvense (8), Lactuca muralis (8), Quercus trojana (10), Alcea biennis (10), Cirsium arvense (10)*
	Grassland	*Mentha aquatica (3), Ranunculus arvensis (3), Cerasus avium (3), Thlaspi arvense (3), Muscari neglectum (3), Ornithogalum orthophyllum (3), Gagea villosa (4), Ornithogalum neurostegium (4), Eleocharis palustris (4), Ranunculus trichophyllus (4), Cytisus hirsutus (4), Lepidium perfoliatum (4), Oenanthe silaifolia (4), Filago arvensis (4), Fumaria officinalis (4), Onobrychis tournefortii (4), Viola odorata (4), Vicia sativa* subsp. *nigra (4), Sisymbrium altissimum (4), Briza humilis (4), Erodium cicutarium (4), Fibigia clypeata (4), Filago pyramidata (4), Veronica anagallis-aquatica (4), Anchusa undulata* subsp. *hybrida (4), Elaeagnus angustifolia (4), Populus nigra (4), Lathyrus digitatus (4), Salix alba (4), Buglossoides arvensis (4), Cotoneaster nummularius (4), Veronica hederifolia (4), Orchis palustris (6), Catabrosa aquatica (6), Melilotus alba (6), Helianthemum nummularium* subsp. *lycaonicum (6), Paronychia dudleyi (6), Onosma bracteosa (6), Plantago lanceolata (6), Geranium collinum (6), Lythrum salicaria (6), Salvia wiedemannii (6), Pedicularis comosa* var. *sibthorpii (6), Acanthus hirsutus (6), Consolida hellespontica (6), Malus sylvestris* subsp. *orientalis (6), Rosa canina (6), Ziziphora tenuior (6), Lactuca taberosa (6), Centaurea solstitialis (6), Rumex crispus (6), Centaurea solstitialis (6), Myriophyllum spicatum (6), Ranunculus constantinopolitanus (6), Cyanus depressus (6), Erigeron acris* subsp. *pycnotrichus (6), Ptilostemon afer* subsp. *eburneus (6), Koeleria pyramidata (6), Saponaria prostrata (6), Rumex acetosella (6), Amaranthus retroflexus (6), Pyrus elaeagnifolia (6), Caucalis platycarpos (6), Consolida orientalis (6), Astragalus vulnerariae (6), Boreava orientalis (6), Ononis spinosa (6), Erophila verna (6), Phragmites australis (8), Colutea cilicica (8), Hypericum aviculariifolium (8), Asperula lilaciflora* subsp. *phrygia (8), Althaea officinalis (8), Centranthus longiflorus (8), Crepis foetida* subsp. *rhoeadifolia (8), Cuscuta approximata (8), Bidens tripartita (8), Berula erecta (8), Teucrium scordium* subsp. *scordioides (8), Inula viscosa (8), Trifolium pratense (8), Centaurea virgata (8), Ecballium elaterium (10)*
	Moor	*Colchicum atticum (2), Gagea granatellii (2), Arabis caucasica (3), Scilla bifolia (4), Corydalis solida (4), Medicago lupulina (4), Trifolium arvense (4), Crataegus monogyna (4), Erysimum repandum (4), Sisymbrium loeselii (4), Asperula arvensis (4), Nonea caspica (4), Lamium amplexicaule (4), Legousia speculum-veneris (4), Muscari tenuiflorum (4), Aethionema arabicum (4), Silene lydia (4), Jasminum fruticans (4), Onobrychis gracilis (4), Hypericum origanifolium (4), Scorzonera laciniata (4), Allium scorodoprasum* subsp. *rotundum (6), Sedum hispanicum (6), Sedum amplexicaule* subsp. *tenuifolium (6), Lotus corniculatus* var. *tenuifolius (6), Trifolium physodes (6), Linum hirsutum* subsp. *anatolicum* var. *anatolicum (6), Helianthemum oelandicum* subsp. *incanum (6), Alyssum hirsutum (6), Polygonum bellardii (6), Dianthus crinitus (6), Dianthus zonatus (6), Chenopodium murale (6), Noaea mucronata (6), Linaria genistifolia (6), Ajuga chamaepitys* subsp. *chia (6), Clinopodium graveolens* subsp. *rotundifolium (6), Hieracium pannosum (6), Xeranthemum annuum (6), Genista aucheri (6), Arabis nova (6), Neslia paniculata* subsp. *thracica (6), Silene cappadocica (6), Heliotropium lasiocarpum (6),*

		Lappula barbata (6), Lotus corniculatus (6), Cistus laurifolius (6), Paronychia kurdica (6), Convolvulus lineatus (6), Scabiosa argentea (6), Bupleurum flavum (6), Tribulus terrestris (8), Hypericum heterophyllum (8), Rhinanthus angustifolius subsp. *grandiflorus (8), Campanula ajugifolia (8), Echinops microcephalus (8), Echinophora tournefortii (8), Vicia cracca* subsp. *stenophylla (8), Inula britannica (8)*
	Steppe	*Thlaspi perfoliatum (2), Astragalus hamosus (4), Moenchia mantica (4), Astragalus condensatus (6), Sanguisorba minor* subsp. *balearica (6), Fumana procumbens (6), Cnicus benedictus (6), Linum cariense (8)*
	Roadside	*Thlaspi perfoliatum (2), Crocus chrysanthus (2), Ranunculus damascenus (4), Geranium purpureum (4), Aubrieta deltoidea (4), Clypeola jonthlaspi (4), Muscari tenuiflorum (4), Cytisus hirsutus (4), Malcolmia africana (4), Platanus orientalis (4), Alyssum linifolium (4), Asperula arvensis (4), Hypecoum imberbe (4), Papaver somniferum (4), Prunus spinosa (4), Viola odorata (4), Cistus creticus (4), Androsace maxima (4), Onosma taurica (4), Consolida raveyi (6), Astragalus campylosema* subsp. *atropurpureus (6), Turritis glabra (6), Echium italicum (6), Myosotis lithospermifolia (6), Cuscuta approximata (6), Hyoscyamus reticulatus (6), Nepeta stricta (6), Ziziphora capitata (6), Bungea trifida (6), Tanacetum parthenium (6), Aristolochia maurorum (6), Iris kerneriana (6), Asparagus officinalis (6), Chrysopogon gryllus (6), Phleum pratense (6), Sedum amplexicaule* subsp. *tenuifolium (6), Agrostemma githago (6), Gypsophila perfoliata (6), Ajuga salicifolia (6), Marrubium parviflorum* subsp. *oligodon (6), Astragalus microperus (6), Erigeron acris* subsp. *pycnotrichus (6), Senecio vernalis (6), Morina persica (6), Anethum graveolens (6), Prospero autumnale (8), Poa compressa (8), Consolida aconiti (8), Micromeria cristata* subsp. *phrygia (8), Chondrilla juncea (8), Pimpinella tragium* subsp. *polyclada (8), Allium olympicum (8), Medicago sativa (8), Dianthus calocephalus (8), Teucrium scordium* subsp. *scordioides (8), Lactuca serriola (8), Scorzonera tomentosa (8), Sedum albüm (8), Cydonia oblonga (8), Phedimus obtusifolius (8), Rhaponticum repens (8), Lamium amplexicaule (10)*
	Forrest	*Globularia orientalis (2), Crocus flavus* subsp. *dissectus (4), Muscari latifolium (4), Lathyrus cicera (4), Medicago minima (4), Trifolium arvense (4), Clypeola jonthlaspi (4), Diplotaxis tenuifolia (4), Thlaspi jaubertii (4), Ephedra major (6), Lolium perenne (6), Chenopodium botrys (6), Paracaryum racemosum (6), Verbascum flavidum (6), Centaurea solstitialis (6), Jurinea consanguinea (6), Consolida orientalis (6), Consolida regalis* subsp. *paniculata (6), Nigella arvensis* var. *involucrata (6), Genista albida (6), Hedysarum varium (6), Potentilla recta (6), Arabis nova (6), Neslia paniculata subsp. thracica (6), Campanula cymbalaria (6), Gundelia tournefortii (6), Quercus petraea* subsp. *iberica (8), Matthiola longipetala* subsp. *bicornis (8), Anagallis foemina (8), Chaerophyllum byzantinum (8), Juniperus communis* var. *saxatilis (8), Melilotus officinalis (8), Clinopodium vulgare (8), Juniperus oxycedrus (10)*
	***Quercus* sp. and Steppe**	*Hypecoum procumbens (2), Colchicum speciosum (2), Crocus chrysanthus (2), Euphorbia anacampseros (4), Cruciata taurica (4), Veronica grisebachii (4), Veronica multifida (4), Juniperus oxycedrus (4), Plantago lanceolata (4), Sonchus asper* subsp. *glaucescens (4), Alkanna orientalis (6), Globularia trichosantha (6), Melilotus officinalis (6), Centaurea urvillei (6), Stachys byzantina (8), Centaurea olympica (8), Quercus cerris (10)*
1201-1300	***Quercus* sp. forrest**	*Viola parvula (4), Veronica chamaedrys (4), Lamium orientale (4), Salvia tomentosa (4), Turgenia latifolia (4), Iris kerneriana (6), Astragalus lydius (6), Onobrychis oxyodonta* var. *armena (6), Malva neglecta (6), Dianthus aculeatus (6), Silene vulgaris (6), Galium verum* subsp. *glabrescens (6), Myosotis lithospermifolia (6), Nepeta nuda (6), Salvia aethiopis (6), Sideritis montana (6), Teucrium chamaedrys (6), Carduus nutans (6), Astrantia maxima (6), Convolvulus arvensis (8), Digitalis ferruginea (8), Clinopodium vulgare (8), Mentha longifolia* subsp. *typhoides (8), Scutellaria albida* subsp. *velenovskyi (8), Achillea arabica (8), Cyanus triumfettii (8)*
	***Pinus* sp. forrest**	*Crocus flavus (2), Crocus olivieri (2), Vicia sativa (2), Pinus nigra (2), Anemone coronaria (2), Thlaspi perfoliatum (2), Rochelia disperma (2), Fritillaria fleischeriana (4), Papaver dubium (4), Adonis flammea (4), Adonis aestivalis (4), Nigella arvensis* var. *involucrata (4), Primula vulgaris (4), Doronicum orientale (4), Turgenia latifolia (4), Scilla bifolia (4), Adonis aestivalis (4), Saxifraga hederacea (4), Alyssum minutum (4), Dactylorhiza romana (4), Adonis flammea (4), Ranunculus damascenus (4), Trigonella cretica (4), Crataegus monogyna (4), Raphanus sativus (4), Alkanna orientalis (4), Fragaria vesca (4), Viola parvula (4), Epilobium angustifolium (4), Brunnera orientalis (4), Crepis sancta (4), Tussilago farfara (4), Paeonia peregrina (6), Vicia cracca subsp. stenophylla (6), Asyneuma limonifolium (6), Cyanus pichleri (6), Onopordum tauricum (6), Carex hispida (6), Berberis crataegina (6), Astragalus angustifolius* subsp. *pungens (6), Brassica elongata (6), Fibigia clypeata (6), Salvia cadmica (6), Centaurea urvillei* subsp. *Steppeposa (6), Centaurea virgata (6), Anacamptis pyramidalis (6), Glaucium corniculatum (6), Consolida hellespontica (6), Ranunculus constantinopolitanus (6), Astragalus melanophrurius (6), Medicago lupulina (6), Polygala pruinosa (6), Amaranthus blitoides (6), Convolvulus galaticus (6), Verbascum stenostachyum (6), Hieracium pseudodontotrichum (6), Picris pauciflora (6), Scabiosa calocephala (6), Hypericum montbretii (6), Epilobium lanceolatum (6), Rhus coriaria (6), Berberis vulgaris (6), Lotus corniculatus (6), Geranium pyrenaicum (6), Consolida thirkeana (8), Consolida thirkeana (8), Carex remota (8), Elaeagnus angustifolia (8), Acantholimon puberulum (8), Stachys byzantina (8), Scolymus hispanicus (8), Oenanthe fistulosa (8), Delphinium venulosum (8), Galega officinalis (8), Anchusa leptophylla* subsp. *incana (8), Seseli tortuosum (8), Rubus canescens* var. *glabratus (8), Rumex crispus (8), Scrophularia scopolii (8), Lamium garganicum (8), Scutellaria salvifolia (8), Malva sylvestris (10), Juniperus excelsa (10)*
	Quercus sp. and Pinus sp. mixed forrest	*Thlaspi arvense (2), Orchis purpurea (4), Muscari neglectum (4), Stipa bromoides (4), Aethionema arabicum (4), Moltkia aurea (4), Orobanche minor (4), Acer campestre (4), Iberis carnosa (4), Turritis laxa (4), Cephalanthera rubra (6), Minuartia hirsuta* subsp. *falcata (6), Centaurium erythraea (6), Polygala supina (6), Crataegus monogyna (6), Potentilla recta (6), Hypericum olympicum (6), Anthemis aciphylla (6), Crepis foetida* subsp. *rhoeadifolia (6), Cyanus triumfettii (6), Teucrium polium (8), Campanula rapunculoides* subsp. *cordifolia (8), Securigera varia (8), Achillea arabica (8), Agrimonia eupatoria (10), Plantago lanceolata (10)*
	Grassland	*Anemone coronaria (2), Ranunculus ficaria* subsp. *ficariiformis (2), Daucus carota (2), Hyacinthella lineata (4), Veronica pectinata (4), Ornithogalum oligophyllum (4), Adonis aestivalis (4), Alcea biennis (4), Brassica elongata (4), Veronica samuelssonii (4), Salvia syriaca (4), Ornithogalum oligophyllum (4), Trigonella spruneriana (4), Amygdalus webbii (4), Trifolium repens (4), Acer platanoides (4), Conringia planisiliqua (4), Raphanus raphanistrum (4), Agrostemma githago (4), Sorbus umbellata (4), Salix cinerea (4), Vicia sativa* subsp. *nigra (4), Alyssum linifolium (4), Arabis caucasica (4), Eruca vesicaria (4), Cephalanthera damasonium (6), Sambucus nigra (6), Cephalaria syriaca (6), Bifora radians (6), Ornithogalum alpigenum (6), Berberis crataegina (6), Potentilla reptans (6), Paronychia carica (6), Astrantia maxima (6), Melica ciliata (6), Glaucium grandiflorum (6), Clematis viticella (6), Consolida regalis* subsp. *paniculata (6), Ranunculus constantinopolitanus (6), Lepidium perfoliatum (6), Dianthus lydus (6), Silene subconica (6), Hypericum orientale (6), Amaranthus retroflexus (6), Noaea mucronata (6), Polygala anatolica (6), Astragalus lydius (6), Galium verum (6), Salvia tomentosa (6), Ziziphora tenuior (6), Anthemis aciphylla (6), Cymbolaena griffithii (6), Butomus umbellatus (8), Euonymus latifolius (8), Stachys cretica* subsp. *anatolica (8), Colchicum umbrosum (8), Anagallis arvensis (8), Marrubium parviflorum* subsp. *oligodon (8), Rhinanthus angustifolius* subsp. *grandiflorus (8), Fumana paphlagonica (8), Poa compressa (8), Digitalis ferruginea (8), Onobrychis oxyodonta (8), Xeranthemum annuum (8), Solanum americanum (10)*
	Moor	*Crepis sancta (2), Ornithogalum neurostegium (4), Scorzonera eriophora (4), Potentilla recta (6), Alcea biennis (6), Linaria corifolia (6), Alyssum murale (6)*
	Roadside	*Gagea bohemica (2), Scorzonera suberosa (4), Turritis glabra (4), Legousia speculum-veneris (4), Scorzonera suberosa (4), Taraxacum campylodes (4), Valeriana dioscoridis (4), Artedia squamata (4), Arum elongatum (6), Ornithogalum narbonense (6), Koeleria pyramidata (6), Genista sessilifolia (6), Lotononis genistoides (6), Securigera varia (6), Hypericum origanifolium* var. *depilatum (6), Clinopodium graveolens* subsp. *rotundifolium (6), Salvia aethiopis (6), Sideritis montana (6), Orobanche ramosa (6), Achillea phrygia (6), Cota tinctoria (6), Cyanus depressus (6), Leontodon asperrimus (6), Tragopogon porrifolius (6), Tragopogon porrifolius* subsp. *longirostris (6), Trifolium pratense (8), Xeranthemum annuum (8), Echinophora tournefortii (8)*
	Forrest	*Orchis mascula* subsp. *pinetorum (4), Astragalus densifolius (4), Alyssum hirsutum (4), Iberis carnosa (4), Viscum album (4), Poa bulbosa (6), Papaver argemone (6), Paliurus spina-christi (6), Rumex crispus (6), Saponaria glutinosa (6), Silene spergulifolia (6), Verbascum bombyciferum (6), Ballota nigra (6), Eremogone ledebouriana (8), Cynoglossum creticum (8), Picnomon acarna (8)*
	Tarla kenarı	*Iris schachtii (4), Rhamnus thymifolia (4), Descurainia sophia (4), Juniperus oxycedrus (6), Avena barbata (6), Hypericum perforatum (6), Minuartia hirsuta* subsp. *falcata (6), Lamium orientale (6), Prunella laciniata (6), Setaria viridis (8), Cichorium intybus (8), Portulaca oleracea (10)*
1301-1400	***Quercus* sp. forrest**	*Crocus danfordiae (2), Viola parvula (4), Erophila verna (4), Polygonatum orientale (4), Bromus tectorum (4), Iris kerneriana (6), Astragalus lydius (6), Onobrychis oxyodonta* var. *armena (6), Erysimum crassipes (6), Isatis glauca (6), Silene italica (6), Cruciata taurica (6), Galium verum (6), Malva neglecta (6), Briza media (6), Quercus pubescens subsp. crispata (8), Capsella bursa-pastoris (10)*
	Pinus sp. forrest	*Crocus ancyrensis (2), Colchicum burttii (2), Anemone blanda (2), Euphorbia helioscopia (2), Primula vulgaris* subsp. *rubra (2), Crocus ancyrensis (2), Populus nigra (2), Scandix pecten-veneris (4), Asplenium trichomanes (4), Fritillaria pinardii (4), Orchis purpurea (4), Muscari comosum (4), Hypericum perforatum (4), Corydalis solida (4), Lathyrus digitatus (4), Adonis flammea (4), Linum bienne (4), Cardamine hirsuta (4), Iberis carnosa (4), Orchis laxiflora (4), Asparagus officinalis (4), Primula vulgaris (4), Luzula forsteri (4), Carex distans (4), Briza media (4), Consolida regalis* subsp. *paniculata (4), Lathyrus laxiflorus (4), Pisum sativum (4), Corylus colurna (4), Crataegus monogyna (4), Pyracantha coccinea (4), Euonymus europaeus (4), Helianthemum nummularium (4), Rumex tuberosus (4), Alliaria petiolata (4), Arabis caucasica (4), Stellaria holostea (4), Convolvulus betonicifolius (4), Ajuga chamaepitys* subsp. *chia (4), Cotoneaster nummularius (4), Pyrus elaeagnifolia (4), Filago arvensis (4), Oenanthe silaifolia (4), Trifolium arvense (4), Fragaria vesca (4), Viola occulta (4), Gagea graeca (4), Salix alba (4), Velezia rigida (4), Veronica multifida (4), Reseda luteola (6), Stellaria media (6), Phleum bertolonii (6), Ranunculus trichophyllus (6), Polygala supina (6), Crataegus orientalis (6), Corydalis solida (6), Glaucium corniculatum (6), Rosa canina (6), Rubus sanctus (6), Rapistrum rugosum (6), Polygonum bistorta (6), Holosteum umbellatum (6), Silene otites (6), Thymus sipyleus (6), Campanula olympica (6), Centaurea iberica (6), Centaurea thracica (6), Pilosella piliscuama (6), Scorzonera tomentosa (6), Aubrieta pinardii (6), Campanula pamphylica* subsp. *tokurii (6), Trifolium ochroleucon (6), Crataegus orientalis (6), Rosa canina (6), Barbarea plantaginea (6), Catabrosa aquatica (6), Salvia sclarea (6), Campanula glomerata* subsp. *hispida (6), Ranunculus polyanthemos (6), Lotus corniculatus* var. *alpinus (6), Ononis spinosa (6), Polygala pruinosa (6), Agrimonia eupatoria (6), Cotoneaster integerrimus (6), Cnicus benedictus (6), Filipendula vulgaris (6), Geum urbanum (6), Potentilla argentea (6), Cynoglossum creticum (6), Bellis perennis (6), Silene cappadocica (6), Chardinia orientalis (6), Cyanus pichleri (6), Lonicera caucasica (6), Torilis arvensis* subsp. *neglecta (6), Ranunculus constantinopolitanus (6), Cytisus pygmaeus (6), Medicago lupulina (6), Silene vulgaris (6), Rubus idaeus (6), Clematis viticella (6), Sedum pallidum (6), Astragalus angustifolius* subsp. *pungens (6), Hedysarum varium (6), Reseda lutea (6), Dianthus lydus (6), Minuartia hirsuta* subsp. *falcata (6), Paronychia kurdica (6), Chenopodium botrys (6), Centaurea thracica (6), Helichrysum plicatum (6), Allium scorodoprasum* subsp. *rotundum (8), Delphinium venulosum (8), Senecio racemosus (8), Carex remota (8), Phleum pratense (8), Astragalus oxytropifolius (8), Galium verum* subsp. *glabrescens (8), Origanum vulgare (8), Sideritis galatica (8), Melampyrum arvense (8), Asyneuma rigidum (8), Jurinea pontica (8), Pilosella piloselloides (8), Morina persica (8), Lapsana communis* subsp. *adenophora (8), Bolanthus minuartioides (8), Atriplex rosea (8), Micromeria cristata* subsp. *phrygia (8), Centaurea iberica (8), Colutea cilicica (8), Trifolium hybridum (8), Hypericum tetrapterum (8), Prunella vulgaris (8), Pinus sylvestris (8), Digitalis ferruginea (8), Pilosella auriculoides (8), Pilosella piloselloides* subsp. *magyarica (8), Juniperus excelsa (10), Phlomis russeliana (10), Consolida aconiti (10), Datura stramonium (10), Chaerophyllum byzantinum (10), Lamium amplexicaule (10)*
1401-1500	***Pinus* sp. forrest**	*Limodorum abortivum (4), Iris pseudacorus (4), Stellaria holostea (4), Vinca herbacea (4), Scilla bifolia (4), Ranunculus arvensis (4), Cardamine hirsuta (4), Lamium purpureum (4), Roemeria hybrida (6), Nigella elata (6), Ranunculus repens (6), Astragalus vulnerariae (6), Lathyrus cicera (6), Vicia cassubica (6), Crataegus tanacetifolia (6), Potentilla recta (6), Pyracantha coccinea (6), Fagus orientalis (6), Aethionema cordatum (6), Cynoglossum officinale (6), Nonea caspica (6), Veronica serpyllifolia (6), Acanthus hirsutus (6), Inula ensifolia (6), Eleocharis palustris (8), Medicago sativa (8)*
	Quercus sp. and Pinus sp. mixed forrest	*Paeonia peregrina (4), Viola alba (4), Nepeta stricta (4), Sedum pallidum (6), Geum urbanum (6), Asyneuma limonifolium (6), Sedum albüm (8), Asperula involucrata (8)*
1501-1600	***Pinus* sp. forrest**	*Crocus danfordiae (2), Acer hyrcanum* subsp. *keckianum (2), Pinus sylvestris (4), Juniperus foetidissima (4), Gagea bithynica (4), Geranium purpureum (4), Descurainia sophia (4), Crupina crupinastrum (4), Doronicum orientale (4), Rosa pulverulenta (6), Cistus laurifolius (6), Minuartia juniperina (6), Ranunculus brutius (6), Astragalus condensatus (6), Rosa micrantha (6), Rubus canescens* var. *glabratus (6), Euphorbia falcata (6), Plantago holosteum (6), Nepeta nuda (6), Campanula cymbalaria (6), Inula oculus-christi (6), Scorzonera cana* var. *jacquiniana (6), Tanacetum parthenium (6), Anethum graveolens (6), Smyrnium perfoliatum (6), Lotus corniculatus* var. *tenuifolius (8), Centaurium erythraea (8), Centaurea olympica (8), Helichrysum graveolens (8), Picris hieracioides (8)*