

СИНТАКСОНОМІЧНА СХЕМА ТРАВ'ЯНОЇ РОСЛИННОСТІ ВЕРХНІХ БАСЕЙНІВ ПРУТА ТА СІРЕТУ

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Уперше за результатами аналізу польових і літературних даних розроблено класифікаційну схему трав'яної рослинності верхніх басейнів Прута та Сірету в межах України на основі еколого-флористичного методу Браун-Бланке. Основою для розробки синтаксономічної схеми рослинності регіону досліджень є база даних геоботанічних описів «Vegetation of Bukovina», створена на кафедрі ботаніки, лісового і садово-паркового господарства у середовищі програми TURBOVEG, яка налічує понад 5000 геоботанічних описів, виконаних відповідно до стандартних методик. Для виділення одиниць рослинності використано аналітично-синтетичний кластерний аналіз на основі модифікованого алгоритму TWINSpan у середовищі програми JUICE.

Синтаксономічний склад трав'яної рослинності регіону досліджень представлений 9 класами, 21 порядком, 33 союзами: **клас** *Carici rupestris-Kobresietea bellardii Ohba 1974* (**порядок** *Oxytropido-Elynetalia Albrecht 1969* (**союзи** *Oxytropido-Elynyon myosuroidis Br.-Bl. 1950, Festucion versicoloris Krajina 1933*)); **клас** *Mulgedio-Aconitetea Hadač et Klika in Klika et Hadač 1944* (**порядок** *Adenostyletalia alliariae Br.-Bl. 1930* (**союз** *Adenostylon alliariae Br.-Bl. 1926 nom. conserv. propos.*)); **порядок** *Calamagrostietalia villosae Pawłowski et al. 1928* (**союзи** *Caricion ferrugineae G. Br.-Bl. et Br.-Bl. in G. Br.-Bl. 1931, Calamagrostion arundinaceae (Luquet 1926) Oberd. 1957, Calamagrostion villosae Pawłowski et al. 1928, Trisetion fusci Krajina 1933*); **порядок** *Petasito-Chaerophylletalia Morariu 1967* (**союз** *Petasition officinalis Sillinger 1933*); **порядок** *Senecioni rupestris-Rumicetalia alpini Mucina et Karner ordo nov. hoc loco* (**союз** *Rumicion alpini Scharfetter 1938*)); **клас** *Juncetea trifidi Hadač in Klika et Hadač 1944* (**порядок** *Caricetalia curvulae Br.-Bl. in Br.-Bl. et Jenny 1926* (**союзи** *Caricion curvulae Br.-Bl. 1925; Juncion trifidi Krajina 1933*), **порядок** *Festucetalia spadiceae Barbero 1970* (**союзи** *Nardion strictae Br.-Bl. 1926, Potentillo ternatae-Nardion Simon 1958*)); **клас** *Elyno-Seslerietea BR.-BL. 1948* (**порядок** *Seslerietalia caeruleae Br.-Bl. in Br.-Bl. et Jenny 1926* (**союз** *Festuco saxatilis-Seslerion bielzii (Pawłowski et Walas 1949) Coldea 1984*); **клас** *Nardetea strictae Rivas Goday et Borja Carbonell in Rivas Goday et Mayor López 1966 nom. conserv. Propos.* (**порядок** *Nardetalia strictae Preising 1950* (**союзи** *Nardo-Agrostion tenuis Sillinger 1933; Violion caninae Schwickerath 1944*)); **клас** *Trifolio-Geranieta Sanguinei T. Müller 1962* (**порядок** *Origanetalia vulgaris T. Müller 1962* (**союз** *Trifolion medii T. Müller 1962*), **порядок** *Antherico ramosi-Geranietalia sanguinei Julve ex Dengler in Dengler et al. 2003* (**союз** *Geranion sanguinei Tx. in T. Müller 1962*); (**порядок** *Melampyro-Holcetalia mollis Passarge in Theurillat et al. 1995* (**союз** *Teucrion scorodoniae de Foucault et al. 1983*)); **клас** *Molinio-Arrhenatheretea TX. 1937* (**порядок** *Arrhenatheretalia elatioris R. Tx. 1931* (**союзи** *Arrhenatherion elatioris Luquet 1926; Cynosurion cristati Tx. 1947*), **порядок** *Galieta verii Mirkin et Naumova 1986* (**союз** *Agrostion vinealis Sipaylova et al. 1985*), **порядок** *Molinietalia caeruleae Koch 1926* (**союзи** *Mentho longifoliae-Juncion inflexi T. Müller et Görs ex de Foucault 2009, Molinion caeruleae Koch 1926; Deschampsion cespitosae Horvatić 1930, Calthion palustris Tx. 1937*), **порядок** *Filipendulo ulmariae-Lotetalia uliginosi Passarge 1975* (**союз** *Filipendulion ulmariae Segal ex Westhoff et Den Held 1969*), **порядок** (*Poo alpinae-Trisetetalia Ellmauer et Mucina 1993* (**союз** *Trisetio flavescens-Polygonion bistortae Br.-Bl. et Tx. ex Marschall 1947*)); **клас** *Festuco-Brometea BR.-BL. et Tx. ex Soó 1947* (**порядок** *Stipo pulcherrimae-Festucetalia pallentis Pop 1968 nom. conserv. propos.* (**союз** *Bromo pannonici-Festucion csikhegyensis Zólyomi 1966 corr. Mucina in Di Pietro et al. 2015*), **порядок** *Festucetalia valesiaca Soó 1947* (**союз** *Festucion valesiaca Klika 1931 nom. conserv. propos.*), **порядок** *Brachypodietalia pinnati Korneck 1974 nom. conserv. propos.* (**союз** *Cirsio-Brachypodion pinnati Hadač et Klika in Klika et Hadač 1944*)); **клас** *Festuco-Puccinellietea Soó ex Vicherek 1973* (**порядок** *Puccinellietalia Soó 1947* (**союзи** *Puccinellion limosae Soó 1947; Festucion pseudovinae Soó 1933*).

Ключові слова: рослинність, класифікаційна схема, союз, верхні басейни Прута та Сірету

Вступ. Систематизація та впорядкування первинного матеріалу є невід'ємною частиною узагальнення фактичної інформації в системі біологічних наук.

Процес упорядкування, систематизації та наукової обробки первинного матеріалу необхідний для виявлення типових рис і закономірностей явищ та процесів, які вивчаються. Побудова класифікаційних схем

рослинності на флористичній основі дозволяє сьогодні інтегрувати отримані матеріали з вивчення рослинного покриву України у загальноєвропейську систему класифікації рослинності, порівнювати отримані результати із даними західноєвропейських авторів.

Матеріали та методи. Регіон досліджень включає територію басейнів Верхнього Пруту та Верхнього Сірету, в межах України (рис. 1.)

Річка Прут – лівий (другий за довжиною) доплив Дунаю протяжністю 967 км (в межах України довжина Прута складає 299 км). Загальна площа водозбору складає 27540 км², з яких 10989 км² у Румунії, 9264 км² – в Україні та 7287 км² – у Молдові (Атлас поверхневих вод ..., 2009). В межах України знаходиться верхня частина басейну, яка в геолого-тектонічному відношенні приурочена до Крпатської гірсько-складчастої області, Передкарпатського прогину та Волино-Подільської плити Східно-Європейської платформи. Басейн Верхнього Прута розташований у регіоні, де різноманітність і контрастність природних умов зумовлена поєднанням гірських, передгірних і рівнинних ландшафтів. Майже половина басейну Верхнього Прута розташована у межах гірських масивів і хребтів Українських Карпат. У межах Передкарпатського прогину на території басейну

Верхнього Прута домінує горбисто-грядовий рельєф з алювіальними рівнинами.

Річка Сірет – лівий доплив Дунаю протяжністю 706 км. У верхній частині тече територією України (110 км), далі – Румунії (596 км). Загальна площа басейну 44835 км² (в Україні – 2075 км²). Верхня частина басейну р. Сірет розташована в Східних Карпатах, в районі Покутсько-Буковинських Карпат і на Буковинській пригірській височині (Костенюк, 2012).

В басейні Сірету як і Прута переважають бурі лісові ґрунти. Здебільшого вони мають невелику потужність – 30-40 см, інколи трохи більше. Нижче розташований шар із щебеню, каміння. Водопроникність підстилаючого шару здебільшого низька.

За фізико-географічним районуванням (Маринич та ін., 2003) територія досліджень знаходиться у межах Прут-Дністровської височинної області Західно-українського краю зони широколистяних лісів Східно-Європейської рівнини та 5-ти фізико-географічних областей (Передкарпатська височинна, Зовнішньо-Карпатська, Вододільно-Верховинська, Полонинсько-Чорногірська, Мармарська) Українських Карпат.

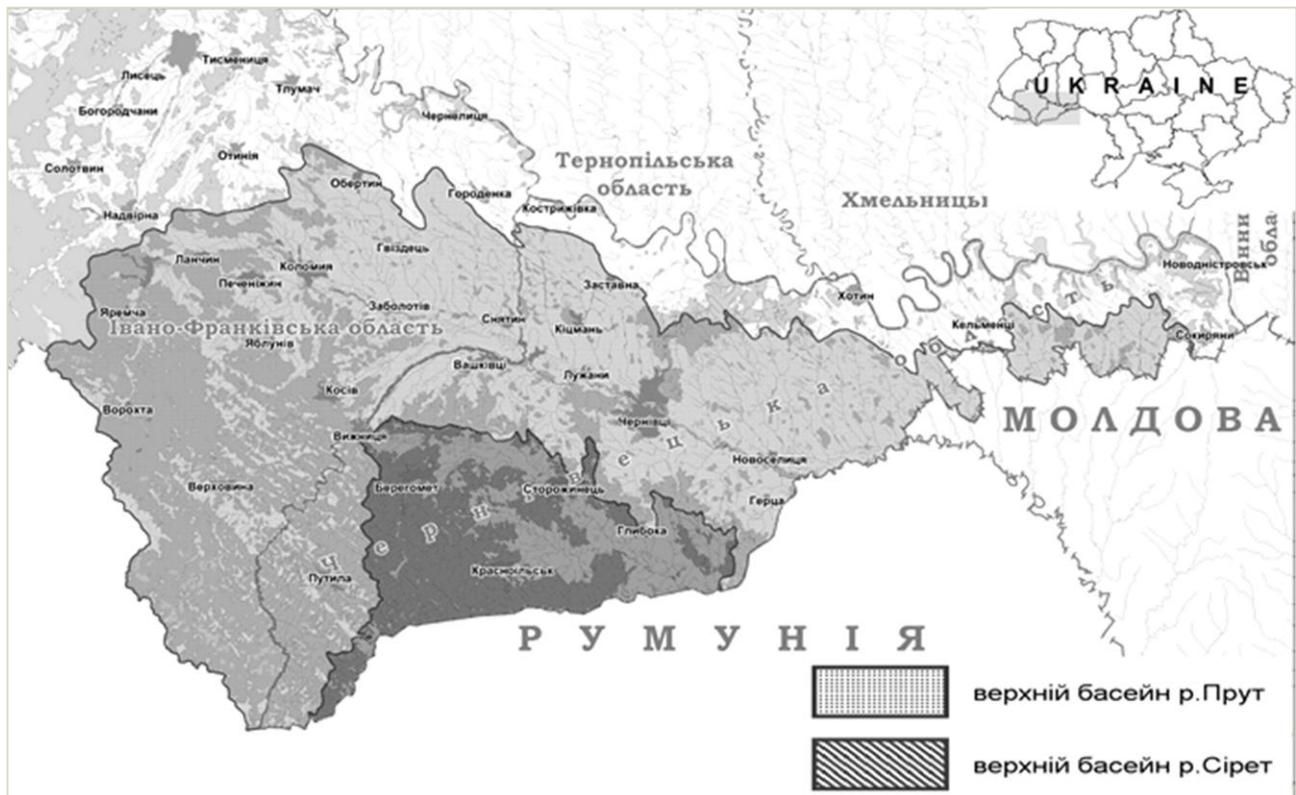


Рис. 1. Територія басейнів верхнього Пруту та верхнього Сірету в межах України

Fig. 1. Territory of the basins of the upper Prut and upper Siret within Ukraine

Відповідно до геоботанічного районування України (Національний атлас України, 2007) басейни Верхнього Прута та Верхнього Сірету розташовані у Мармаросько-Чорногірсько-Свидовецькому окрузі скельно- та звичайно дубових, букових, модринних та ялинових лісів, субальпійської та альпійської рослинності, Опільсько-Кременецькому окрузі букових, грабово-дубових лісів, справжніх та остепнених луків та лучних степів, Покутсько-Медобірському окрузі букових, грабово-дубових і дубових лісів, справжніх та остепнених луків та лучних степів (Європейська широколистянолісова область) та Бессарабського округу дубових та букових лісів, остепнених луків і лучних степів (Євразійська степова область).

Основою для розробки синтаксономічної схеми рослинності регіону досліджень є база даних геоботанічних описів «Vegetation of Bukovina», створена на кафедрі ботаніки, лісового і садово-паркового господарства у середовищі програми TURBOVEG, яка нлічує понад 5000 геоботанічних описів, що виконані у відповідності до стандартних методик на пробних площах 25м² та 16м². При створенні бази даних назви видів наведено відповідно до номенклатурного зведення С.К Черепанова (1995). Після переведення даних у формат JUICE номенклатуру узгоджено з «Vascular plants of Ukraine. A nomenclatural checklist» (1999).

Геоботанічні описи з програми TURBOVEG були імпортовані до програми JUICE (Tychu,

2002), у якій здійснювалися основні операції щодо обробки геоботанічних описів та побудови класифікаційної схеми рослинності.

Для виділення одиниць рослинності використано аналітично-синтетичний кластерний аналіз на основі модифікованого алгоритму TWINSpan (Roleček et al., 2009).

Ідентифікацію отриманих синтаксонів здійснювали на основі аналізу складу їх діагностичних видів із використанням літературних джерел (Royer, 1991; Berg, 2001, 2004; Růsiņa, 2005, 2007; Chytrý, 2007; Janišová, 2007; Löbel & Dengler, 2007; Соломаха, 2008; Дідух, 2008; Dúbravková-Michálková et al., 2008; Гончаренко, 2009; Kuzemko, 2009; Šibíková et al., 2009; Velev & Apostolova, 2009; Dúbravková et al., 2010; Janišová M., Dúbravková, 2010; Janišová, Uhliarová, Ružicková, 2010; Dengler et al., 2012; Pedashenko et al., 2013; Kuzemko et al., 2014; Sopotlieva & Apostolova, 2014; Vassilev et al., 2014; Aćić et al., 2015; Mucina et al., 2016; Zajac, 2016; Дубина та ін., 2019; Willner et al., 2019;).

Результати та їх обговорення. За результатами обробки геоботанічних описів з допомогою алгоритму TWINSpan (модифікований) у середовищі програми JUICE отримана дендрограма (рис. 2) та розділено сукупність описів на окремі однорідні кластери, що відповідають класам рослинності. У подальшому кожен дендрит опрацьовували окремо для виділення однорідних кластерів, для виділення одиниць нижчих рангів – порядків, союзів.

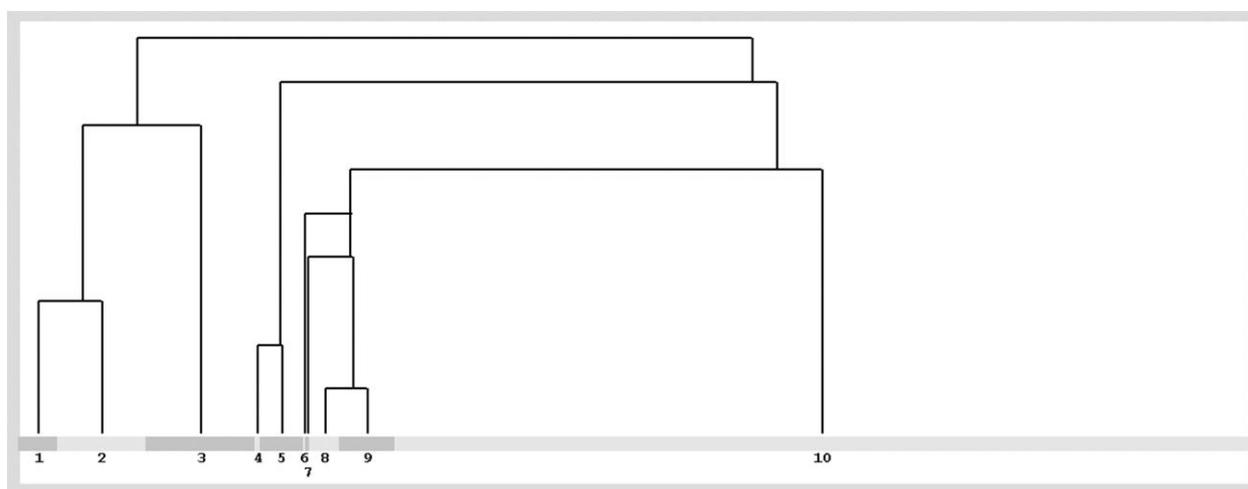


Рис. 2. Дендрограма диференціації загального масиву даних на основі алгоритму TWINSpan модифікований (n=2948).

Fig. 2. Dendrogram of differentiation of the total data array based on the TWINSpan algorithm modified (n = 2948)

1. – *Nardetea strictae* Rivas Goday et Borja Carbonell in Rivas Goday et Mayor López 1966 nom. conserv. Propos.; 2. – *Elyno-Seslerietea* BR.-BL. 1948; 3. – *Mulgedio-Aconitetea* Hadač et Klika in Klika et Hadač 1944; 4. – *Juncetea trifidi* Hadač in Klika et Hadač 1944; 5. – *Scheuchzerio palustris-Caricetea fuscae* Tx. 1937; 6. – *Artemisietea vulgaris* Lohmeyer et al. in TX. ex Von Rochow 1951; 7. – *Trifolio-Geranietea sanguinei* T. Müller 1962; 8. – *Festuco-Brometea* BR.-BL. et Tx. ex Soó 1947; 9. – *Festuco-Puccinellietea* Soó ex Vicherek 1973; 10. – *Molinio-Arrhenatheretea* TX. 1937

На основі отриманої дендрограми та розрахунку показника вірності (fidelity) (коефіцієнт ϕ), сформовані синоптичні таблиці, види в яких були відсортовані відповідно до значень коефіцієнту ϕ . Таким чином, при трансформації синоптичних таблиць у фітоценотичні з груп видів із найвищими значеннями показника вірності сформовані блоки діагностичних видів (табл. 1) на основі чого стало можливим виділити основні класи трав'яної рослинності верхніх басейнів Прута та Сірету.

Таблиця 1.

Значення коефіцієнту ϕ для діагностичних та високодіагностичних видів кластерів класів природної трав'яної рослинності басейнів верхнього Пруту та верхнього Сірету

Table 1.
The value of the phi coefficient for the diagnostic and highly diagnostic species of clusters of classes of natural herbaceous vegetation of the Upper Prut and Upper Siret basins

1. *Elyno-Seslerietea*
2. *Festuco-Brometea*
3. *Festuco-Puccinellietea*
4. *Juncetea trifidi*
5. *Molinio-Arrhenatheretea*
6. *Mulgedio-Aconitetea*
7. *Nardetea strictae*
8. *Trifolio-Geranietea sanguinei*

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
D.s. Cl. Elyno-Seslerietea								
<i>Scabiosa opaca</i>	54.6	---	---	---	---	---	---	---
<i>Anthyllis alpestris</i>	53.5	---	---	---	---	---	---	---
<i>Carex sempervirens</i>	51.2	---	---	---	---	---	---	---
<i>Anemonastrum narcissiflorum</i>	43.6	---	---	---	---	---	---	---
<i>Phyteuma orbiculare</i>	42.5	---	---	---	---	---	---	---
<i>Carduus glaucinus</i>	41.3	---	---	---	---	---	---	---
<i>Centaurea kotschyana</i>	41.2	---	---	---	---	---	---	---
<i>Carex ornithopoda</i>	38.5	---	---	---	---	---	---	---
<i>Thesium alpinum</i>	37.8	---	---	---	---	---	---	---
<i>Allium montanum</i>	37.7	---	---	---	---	---	---	---
<i>Primula elatior</i>	25.4	14.3	---	---	---	---	---	---
<i>Helianthemum grandiflorum</i>	23.2	---	---	---	---	---	---	---
<i>Veronica fruticans</i>	---	---	---	36.1	---	---	---	---
<i>Thymus pulcherrimus</i>	---	---	---	---	---	---	---	---
D.s. Cl. Festuco-Brometea								
<i>Festuca valesiaca</i>	---	63.3	---	---	---	---	---	---
<i>Salvia pratensis</i>	---	62.9	---	---	---	---	---	---
<i>Asperula cynanchica</i>	---	62.6	---	---	---	---	---	---
<i>Centaurea scabiosa</i>	---	59.7	---	---	---	---	---	---
<i>Teucrium chamaedrys</i>	---	57.3	---	---	---	---	---	---
<i>Thymus marschallianus</i>	---	53.6	---	---	---	---	---	---
<i>Thesium linophyllum</i>	---	51.7	---	---	---	---	---	---
<i>Anthericum ramosum</i>	---	50.5	---	---	---	---	---	---
<i>Koeleria cristata</i>	---	48.7	---	---	---	---	---	---
<i>Festuca rupicola</i>	---	48.6	---	---	---	---	---	---
<i>Cirsium pannonicum</i>	---	47.7	---	---	---	---	---	---
<i>Stachys recta</i>	---	46.7	---	---	---	---	---	---
<i>Salvia verticillata</i>	---	45.9	---	---	---	---	---	---
<i>Elytrigia intermedia</i>	---	44.7	---	---	---	---	---	---
<i>Brachypodium pinnatum</i>	---	44.4	---	---	---	---	---	---
<i>Bothriochloa ischaemum</i>	---	44.0	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Prunella grandiflora</i>	---	43.4	---	---	---	---	---	---
<i>Viola hirta</i>	---	43.3	---	---	---	---	---	---
<i>Eryngium campestre</i>	---	42.8	---	---	---	---	---	---
<i>Hieracium cymosum</i>	---	41.3	---	---	---	---	---	---
<i>Euphorbia cyparissias</i>	---	38.7	---	---	---	---	---	---
<i>Plantago media</i>	---	36.7	---	---	29.1	---	---	---
<i>Medicago falcata</i>	---	34.6	---	---	---	---	---	---
<i>Onobrychis viciifolia</i>	---	29.1	---	---	---	---	---	---
<i>Onobrychis onobrychis</i>	---	27.8	---	---	---	---	---	---
<i>Scabiosa ochroleuca</i>	---	27.4	---	---	---	---	---	---
<i>Campanula sibirica</i>	---	27.3	---	---	---	---	---	---
<i>Bromopsis inermis</i>	---	26.3	---	---	---	---	---	---
<i>Trifolium pannonicum</i>	---	25.0	---	---	21.3	---	---	---
<i>Chamaecytisus austriacus</i>	---	22.4	---	---	---	---	---	---
<i>Stipa capillata</i>	---	21.7	---	---	---	---	---	---
<i>Salvia nutans</i>	---	15.0	---	---	---	---	---	---
<i>Astragalus austriacus</i>	---	12.5	---	---	---	---	---	---
<i>Chamaecytisus ruthenicus</i>	---	11.0	---	---	---	---	---	---
<i>Artemisia austriaca</i>	---	5.4	41.5	---	---	---	---	---
<i>Veronica spicata</i>	---	4.5	53.9	---	---	---	---	---
<i>Senecio erucifolius</i>	---	---	35.3	---	---	---	---	---
<i>Pimpinella saxifraga</i>	---	---	---	---	30.9	---	---	---
<i>Thymus pulegioides</i>	---	---	---	---	27.2	---	---	---
<i>Poterium sanguisorba</i>	---	---	---	---	---	---	---	---
<i>Oxytropis pilosa</i>	---	---	---	---	---	---	---	---
<i>Seseli tortuosum</i>	---	---	---	---	---	---	---	---
<i>Seseli annuum</i>	---	---	---	---	---	---	---	---
D.s. Cl. Festuco-Puccinellietea								
<i>Limonium gmelinii</i>	---	---	84.5	---	---	---	---	---
<i>Peucedanum latifolium</i>	---	---	84.5	---	---	---	---	---
<i>Festuca pseudovina</i>	---	---	77.1	---	---	---	---	---
<i>Lotus tenuis</i>	---	---	61.2	---	---	---	---	---
<i>Elytrigia repens</i>	---	7.5	58.8	---	---	---	---	---
<i>Puccinellia distans</i>	---	---	44.7	---	---	---	---	---
<i>Taraxacum bessarabicum</i>	---	---	34.2	---	---	---	---	---
D.s. Cl. Juncetea trifidi								
<i>Festuca airoides</i>	---	---	---	96.6	---	---	---	---
<i>Hieracium alpinum</i>	---	---	---	74.5	---	---	---	---
<i>Huperzia selago</i>	---	---	---	64.6	---	---	---	---
<i>Juncus trifidus</i>	---	---	---	63.7	---	---	---	---
<i>Campanula alpina</i>	---	---	---	45.6	---	---	---	---
<i>Primula minima</i>	---	---	---	37.0	---	---	---	---
<i>Pulsatilla alba</i>	---	---	---	36.1	---	---	---	---
<i>Homogyne alpina</i>	---	---	---	---	---	42.3	12.1	---
<i>Carex curvula</i>	---	---	---	---	---	---	---	---
<i>Helictotrichon versicolor</i>	---	---	---	---	---	---	---	---
D.s. Cl. Molinio-Arrhenatheretea								
<i>Rhinanthus alectorolophus</i>	---	---	---	---	46.7	---	---	---
<i>Lotus corniculatus</i>	---	---	---	---	45.6	---	---	---
<i>Cynosurus cristatus</i>	---	---	---	---	42.7	---	---	---
<i>Briza media</i>	---	---	---	---	41.2	---	---	---
<i>Trifolium pratense</i>	---	---	---	---	39.2	---	---	---
<i>Leucanthemum vulgare</i>	---	---	---	---	36.7	---	---	---
<i>Centaurea jacea</i>	---	---	---	---	33.5	---	---	---
<i>Plantago lanceolata</i>	---	---	---	---	33.5	---	---	---
<i>Anthoxanthum odoratum</i>	---	---	---	---	33.5	---	---	---
<i>Alchemilla acutiloba</i>	---	---	---	---	33.3	---	---	---
<i>Crepis biennis</i>	---	---	---	---	32.7	---	---	---
<i>Carum carvi</i>	---	---	---	---	30.8	---	---	---
<i>Myosotis palustris</i>	---	---	---	---	29.3	---	---	---
<i>Rhinanthus minor</i>	---	---	---	---	28.8	---	---	---
<i>Campanula patula</i>	---	---	---	---	28.7	---	---	---
<i>Festuca pratensis</i>	---	---	---	---	28.4	---	---	---
<i>Prunella vulgaris</i>	---	---	---	---	27.3	---	---	---
<i>Trifolium repens</i>	---	---	---	---	25.8	---	---	---
<i>Pheum pratense</i>	---	---	---	---	25.3	---	---	---
<i>Achillea millefolium</i>	---	---	---	---	24.1	---	---	---
<i>Ranunculus acris</i>	---	---	---	---	21.2	---	---	---
<i>Holcus lanatus</i>	---	---	---	---	19.8	---	---	---
<i>Rumex acetosa</i>	---	---	---	---	18.8	---	---	---
<i>Leontodon hispidus</i>	---	---	---	---	18.1	---	---	---
<i>Cerastium arvense</i>	---	---	---	---	16.9	---	---	---
<i>Linum catharticum</i>	34.3	---	---	---	16.9	---	---	---
<i>Trisetum flavescens</i>	---	---	---	---	15.9	---	---	---
<i>Heraclium sibiricum</i>	---	---	---	---	14.2	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Gladiolus imbricatus</i>	---	---	---	---	12.1	---	---	---
<i>Poa trivialis</i>	---	---	---	---	11.6	---	---	---
<i>Coccyganthe flos-cuculi</i>	---	---	---	---	7.9	---	---	---
<i>Achillea millefolium aggr.</i>	---	---	---	---	---	84.6	---	---
<i>Carex lachenalii</i>	---	---	---	---	---	39.5	---	---
<i>Ranunculus polyanthemos</i>	---	17.1	---	---	---	---	---	---
<i>Vicia cracca</i>	---	23.1	---	---	---	---	---	---
<i>Dactylis glomerata</i>	---	15.7	---	---	---	---	38.1	---
<i>Cichorium intybus</i>	---	---	---	---	---	---	---	---
<i>Arrhenatherum elatius</i>	---	23.4	---	---	---	---	---	---
<i>Equisetum pratense</i>	---	---	---	---	---	---	---	---
<i>Galium mollugo</i>	---	9.7	---	---	---	---	---	---
<i>Helictotrichon species</i>	---	---	---	---	---	---	---	---
<i>Rhinanthus serotinus</i>	---	---	---	---	---	---	---	---
<i>Cerastium holosteam</i>	---	---	---	---	---	---	---	---
D.s. Cl. Mulgedio-Aconitetea								
<i>Poa chaixii</i>	---	---	---	---	55.7	---	---	---
<i>Senecio subalpinus</i>	---	---	---	---	37.3	---	---	---
<i>Rumex alpinus</i>	---	---	---	---	36.5	---	---	---
<i>Calamagrostis arundinacea</i>	5.8	1.2	---	---	33.4	---	---	---
<i>Veratrum album</i>	---	---	---	---	30.8	---	---	---
<i>Phyteuma spicatum</i>	---	---	---	---	26.9	---	---	---
<i>Calamagrostis villosa</i>	14.2	---	---	---	25.2	---	---	---
<i>Cirsium waldsteini</i>	---	---	---	---	22.6	---	---	---
<i>Senecio nemorensis</i>	---	---	---	---	22.0	---	---	---
<i>Geranium sylvaticum</i>	---	---	---	---	21.5	---	---	---
<i>Ranunculus platanifolius</i>	---	---	---	---	19.3	---	---	---
<i>Athyrium distentifolium</i>	---	---	---	---	15.1	---	---	---
<i>Cicerbita alpina</i>	---	---	---	---	15.1	---	---	---
<i>Gentiana asclepiadea</i>	---	---	---	2.5	---	---	---	---
<i>Rosa pendulina</i>	10.0	---	---	---	---	---	---	---
<i>Thalictrum aquilegifolium</i>	---	6.9	---	---	---	---	---	---
<i>Pulmonaria mollis</i>	---	29.0	---	---	---	---	---	---
<i>Melandrium dioicum</i>	---	---	---	---	---	---	---	---
<i>Polygonatum verticillatum</i>	---	---	---	---	---	---	---	---
<i>Aconitum variegatum</i>	---	---	---	---	---	---	---	---
<i>Streptopus amplexifolius</i>	---	---	---	---	---	---	---	---
<i>Valeriana sambucifolia</i>	---	---	---	---	---	---	---	---
D.s. Cl. Nardetea strictae								
<i>Nardus stricta</i>	---	---	---	0.9	12.4	74.6	---	---
<i>Sieglingia decumbens</i>	---	---	---	24.7	---	44.6	---	---
<i>Potentilla erecta</i>	---	---	---	19.0	---	35.7	---	---
<i>Agrostis capillaris</i>	---	---	---	---	26.2	29.9	31.6	---
<i>Luzula sudetica</i>	---	---	---	7.4	---	24.1	---	---
<i>Veronica officinalis</i>	---	---	---	---	13.9	22.3	---	---
<i>Luzula campestris</i>	---	---	---	7.5	---	21.5	---	---
<i>Arnica montana</i>	---	---	---	1.5	32.7	20.7	---	---
<i>Vaccinium myrtillus</i>	---	---	---	23.7	---	28.1	19.9	---
<i>Lycopodium clavatum</i>	---	---	---	---	---	17.9	---	---
<i>Calluna vulgaris</i>	---	---	---	---	---	16.7	---	---
<i>Antennaria dioica</i>	15.8	---	---	---	---	15.2	---	---
<i>Galium hercynicum</i>	---	---	---	---	20.0	15.2	---	---
<i>Luzula luzuloides</i>	---	---	---	---	39.8	3.9	---	---
<i>Solidago virgaurea</i>	---	---	---	---	21.0	1.2	31.5	---
<i>Potentilla aurea</i>	---	---	---	---	38.1	---	---	---
<i>Crepis conyzifolia</i>	---	---	---	---	20.3	---	---	---
<i>Polygala vulgaris</i>	---	---	---	43.2	---	---	---	---
<i>Festuca rubra</i>	---	---	---	34.1	---	---	---	---
<i>Stellaria graminea</i>	---	---	---	28.6	---	---	---	---
<i>Carex pallescens</i>	---	---	---	9.3	---	---	---	---
<i>Dianthus deltoides</i>	---	---	---	8.1	---	---	---	---
<i>Viola canina</i>	---	---	---	6.4	---	---	---	---
<i>Carex pilulifera</i>	---	---	---	---	---	---	---	---
D.s. Cl. Trifolio-Geranietae sanguinei								
<i>Melampyrum nemorosum</i>	---	---	---	---	---	93.9	---	---
<i>Fragaria vesca</i>	20.9	---	---	---	---	44.3	---	---
<i>Clinopodium vulgare</i>	---	2.4	---	---	---	43.5	---	---
<i>Veronica chamaedrys</i>	---	---	---	---	12.6	40.4	---	---
<i>Astragalus glycyphyllos</i>	---	---	---	---	---	37.4	---	---
<i>Vicia sepium</i>	---	---	---	---	6.1	34.4	---	---
<i>Poa pratensis</i>	---	14.6	---	---	---	29.0	---	---
<i>Trifolium medium</i>	---	---	---	28.8	---	---	---	---
<i>Betonica officinalis</i>	---	---	---	18.4	---	---	---	---
<i>Pyrethrum corymbosum</i>	---	45.0	---	---	---	---	---	---
<i>Agrimonia eupatoria</i>	---	42.9	---	---	---	---	---	---
<i>Inula hirta</i>	---	40.0	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Geranium sanguineum</i>	---	39.6	---	---	---	---	---	---
<i>Trifolium montanum</i>	---	31.5	---	29.8	---	---	---	---
<i>Galium verum</i>	---	30.6	43.8	---	---	---	---	---
<i>Vincetoxicum hirundinaria</i>	---	30.0	---	---	---	---	---	---
<i>Knautia arvensis</i>	---	25.2	---	---	---	---	---	---
<i>Veronica teucrium</i>	---	20.3	---	---	---	---	---	---
<i>Trifolium alpestre</i>	---	18.5	---	---	---	---	---	---
<i>Campanula persicifolia</i>	---	10.5	---	---	---	---	---	---
<i>Hieracium umbellatum</i>	---	8.0	---	---	---	---	---	---
<i>Hypericum perforatum</i>	---	---	---	---	---	---	---	---
<i>Hylotelephium maximum</i>	---	---	---	---	---	---	---	---
<i>Astragalus cicer</i>	---	---	---	---	---	---	---	---
<i>Lathyrus sylvestris</i>	---	---	---	---	---	---	---	---
<i>Origanum vulgare</i>	---	---	---	---	---	---	---	---
<i>Cirsium erisithales</i>	63.1	---	---	---	---	---	---	---
<i>Festuca saxatilis</i>	64.2	---	---	---	---	---	---	---
<i>Acinos alpinus</i>	57.9	---	---	---	---	---	---	---
<i>Aconitum jacquinii</i>	54.0	---	---	---	---	---	---	---
<i>Euphrasia picta</i>	55.3	---	---	---	---	---	---	---
<i>Silene dubia</i>	50.6	---	---	---	---	---	---	---
<i>Festuca carpatica</i>	51.2	---	---	---	---	---	---	---
<i>Lotus ucrainicus</i>	46.3	1.4	---	---	---	---	---	---
<i>Laserpitium latifolium</i>	33.6	13.0	---	---	---	---	---	---
<i>Melampyrum saxosum</i>	33.9	---	---	---	8.8	---	---	---
<i>Aposeris foetida</i>	29.7	---	---	---	---	13.5	---	---
<i>Juniperus communis</i>	24.9	---	---	---	---	---	---	---
<i>Alchemilla monticola</i>	28.5	---	---	---	18.1	---	---	---
<i>Chamaecytisus albus</i>	---	47.1	---	---	---	---	---	---
<i>Bupleurum falcatum</i>	---	47.4	---	---	---	---	---	---
<i>Galatella linosyris</i>	---	76.7	---	---	---	---	---	---
<i>Asparagus officinalis</i>	---	70.6	---	---	---	---	---	---
<i>Serratula tinctoria</i>	---	8.5	56.6	---	---	---	---	---
<i>Linaria vulgaris</i>	---	62.5	---	---	---	---	---	---
<i>Hylotelephium species</i>	---	61.3	---	---	---	---	---	---
<i>Convolvulus arvensis</i>	---	19.4	39.8	---	---	---	---	---
<i>Carex tomentosa</i>	---	3.1	50.3	---	---	---	---	---
<i>Lythrum virgatum</i>	---	---	51.3	---	---	---	---	---
<i>Inula britannica</i>	---	---	54.2	---	---	---	---	---
<i>Carex hirta</i>	---	---	37.6	---	---	---	17.2	---
<i>Dianthus membranaceus</i>	---	2.7	48.2	---	---	---	---	---
<i>Calamagrostis epigeios</i>	---	---	37.2	---	---	---	---	---
<i>Iris brandzae</i>	---	---	48.4	---	---	---	---	---
<i>Genista tinctoria</i>	---	10.4	27.0	---	---	---	---	---
<i>Campanula polymorpha</i>	---	---	70.1	---	---	---	---	---
<i>Vaccinium vitis-idaea</i>	5.8	---	28.3	---	12.3	10.0	---	---
<i>Carex atrata</i>	---	---	58.9	---	---	---	---	---
<i>Vaccinium uliginosum</i>	---	---	48.1	---	---	---	---	---
<i>Saxifraga paniculata</i>	15.1	---	40.1	---	---	---	---	---
<i>Artemisia campestris</i>	---	13.8	---	---	---	---	---	---
<i>Leontodon danubialis</i>	---	---	---	46.2	---	---	---	---
<i>Euphrasia stricta</i>	---	---	---	42.9	---	---	---	---
<i>Ononis arvensis</i>	---	---	---	26.9	---	---	---	---
<i>Vicia dumetorum</i>	---	---	---	---	---	---	---	---
<i>Carex cinerea</i>	---	---	---	---	---	---	---	---
<i>Scorzonera rosea</i>	---	---	---	53.8	---	---	---	---
<i>Phleum alpinum</i>	---	---	---	57.2	---	---	---	---
<i>Viola declinata</i>	10.2	---	---	52.6	---	---	---	---
<i>Hieracium aurantiacum</i>	---	---	---	51.6	---	---	---	---
<i>Hypericum alpigenum</i>	---	---	---	37.6	11.4	---	---	---
<i>Avenella flexuosa</i>	---	---	---	27.8	14.9	---	---	---
<i>Agrostis tenuis</i>	---	---	---	67.0	---	---	---	---
<i>Carex echinata</i>	---	---	---	---	---	---	---	---
<i>Juncus articulatus</i>	---	---	---	9.5	---	---	---	---
<i>Dactylorhiza maculata</i>	---	---	---	---	---	---	---	---
<i>Carex nigra</i>	---	---	---	---	---	---	---	---
<i>Carex rostrata</i>	---	---	---	---	---	---	---	---
<i>Polygala subamara</i>	45.6	---	---	---	---	---	---	---
<i>Triglochin palustre</i>	---	---	---	---	---	---	---	---
<i>Carex paniculata</i>	---	---	---	---	---	---	---	---
<i>Crepis paludosa</i>	---	---	---	---	---	---	---	---
<i>Carex flava</i>	---	---	---	21.5	---	---	---	---
<i>Filipendula denudata</i>	21.0	---	---	---	---	---	---	---
<i>Caltha palustris</i>	---	---	---	13.4	---	---	---	---
<i>Lathyrus pratensis</i>	---	---	---	---	---	---	---	---
<i>Chaerophyllum hirsutum</i>	---	---	---	25.0	---	---	---	---
<i>Swertia perennis</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Festuca porcii</i>	---	---	---	---	---	---	---	---
<i>Geum rivale</i>	12.7	---	---	---	---	---	---	---
<i>Eriophorum polystachyon</i>	---	---	---	---	---	---	---	---
<i>Equisetum palustre</i>	---	---	---	---	25.0	---	---	---
<i>Dactylorhiza cordigera</i>	---	---	---	---	---	---	---	---
<i>Saussurea porcii</i>	---	---	---	---	---	---	---	---
<i>Allium schoenoprasum</i>	---	---	---	---	---	---	---	---
<i>Valeriana simplicifolia</i>	---	---	---	---	---	---	---	---
<i>Cirsium oleraceum</i>	---	---	---	---	13.2	---	---	---
<i>Cardamine pratensis</i>	---	---	---	---	---	---	---	---
<i>Juncus effusus</i>	---	---	---	---	5.1	---	---	---
<i>Equisetum sylvaticum</i>	---	---	---	---	---	---	---	---
<i>Scirpus sylvaticus</i>	---	---	---	---	15.7	---	---	---
<i>Scrophularia nodosa</i>	---	---	---	---	---	---	---	41.3
<i>Stellaria holostea</i>	---	---	---	---	---	11.7	---	---
<i>Carpinus betulus</i>	---	---	---	---	---	---	---	65.3
<i>Quercus robur</i>	---	---	---	---	---	---	---	58.9
<i>Salvia glutinosa</i>	---	---	---	---	---	---	---	55.1
<i>Aegopodium podagraria</i>	---	---	---	---	---	---	---	54.4
<i>Fagus sylvatica</i>	---	---	---	---	---	---	---	51.7
<i>Taraxacum officinale</i>	---	---	---	---	17.1	---	---	---
<i>Galium intermedium</i>	---	---	---	---	---	1.7	---	44.5
<i>Populus tremula</i>	---	---	---	---	---	---	---	48.9
<i>Angelica sylvestris</i>	---	---	---	---	3.6	14.5	---	---
<i>Salix caprea</i>	---	---	---	---	---	---	---	45.1
<i>Phalacrolooma annuum</i>	---	---	---	---	---	---	---	29.7
<i>Thymus alpestris</i>	45.9	---	---	---	---	1.2	---	---
<i>Gymnadenia conopsea</i>	34.0	---	---	---	11.8	---	---	---
<i>Campanula serrata</i>	34.5	---	---	---	---	20.3	---	---
<i>Trollius europaeus</i>	29.4	---	---	---	13.3	---	---	---
<i>Parnassia palustris</i>	35.4	---	---	---	9.4	---	---	---
<i>Picea abies</i>	23.5	---	---	---	---	19.2	9.8	---
<i>Filipendula vulgaris</i>	---	32.8	45.9	---	---	---	---	---
<i>Securigera varia</i>	---	37.3	---	---	---	---	---	---
<i>Hieracium pilosella</i>	---	---	---	---	16.7	---	---	---
<i>Bistorta major</i>	---	---	---	---	---	41.9	---	---
<i>Astrantia major</i>	31.5	---	---	---	5.3	---	---	---
<i>Carlina acaulis</i>	---	---	---	---	26.0	---	---	---
<i>Hypericum maculatum</i>	---	---	---	---	---	27.4	---	34.8
<i>Campanula glomerata</i>	---	---	---	---	15.5	---	---	---
<i>Deschampsia cespitosa</i>	---	---	---	---	---	43.5	11.2	---
<i>Cruciata glabra</i>	27.3	---	---	---	15.0	---	---	---
<i>Frangula alnus</i>	---	---	---	---	---	---	---	45.3
<i>Ranunculus repens</i>	---	---	---	---	1.9	---	---	38.9
<i>Rubus hirtus</i>	---	---	---	---	---	---	---	38.3
<i>Corylus avellana</i>	---	---	---	---	---	---	---	40.7
<i>Digitalis grandiflora</i>	5.2	1.3	---	---	---	---	---	27.0
<i>Peucedanum oreoselinum</i>	---	19.8	---	---	---	---	---	---
<i>Pteridium aquilinum</i>	---	---	---	---	4.2	---	---	---
<i>Galeopsis speciosa</i>	---	---	---	---	---	10.2	---	31.8
<i>Lysimachia vulgaris</i>	---	---	---	---	---	---	---	---
<i>Ajuga reptans</i>	5.1	---	---	---	---	---	---	31.7
<i>Hieracium serratifolium</i>	---	---	---	---	---	---	---	41.4
<i>Campanula trachelium</i>	---	---	---	---	---	---	---	33.8
<i>Festuca gigantea</i>	---	---	---	---	---	---	---	36.7
<i>Betula pendula</i>	---	---	---	---	---	---	---	33.4
<i>Heracleum sphondylium</i>	---	---	---	---	---	---	---	---
<i>Cerasus avium</i>	---	---	---	---	---	---	---	34.9
<i>Cirsium arvense</i>	---	---	23.0	---	---	---	---	---
<i>Selinum carvifolia</i>	---	---	---	---	---	---	---	36.4
<i>Hieracium species</i>	---	---	---	---	---	---	---	---
<i>Viburnum opulus</i>	---	---	---	---	---	---	---	30.7
<i>Carlina vulgaris</i>	---	---	---	---	---	---	---	---
<i>Tilia cordata</i>	---	---	---	---	---	---	---	31.3
<i>Carex brizoides</i>	---	---	---	---	---	---	---	29.7
<i>Athyrium filix-femina</i>	---	---	---	---	---	---	---	25.2
<i>Brachypodium sylvaticum</i>	---	---	---	---	---	---	---	32.0
<i>Quercus petraea</i>	---	---	---	---	---	---	---	31.3
<i>Carex digitata</i>	---	---	---	---	---	---	---	29.8
<i>Galeobdolon luteum</i>	---	---	---	---	---	---	---	32.0
<i>Poa nemoralis</i>	12.1	---	---	---	---	---	---	---
<i>Myosotis cespitosa</i>	---	---	---	---	5.7	---	---	---
<i>Primula veris</i>	---	10.8	---	---	---	---	---	---
<i>Melica nutans</i>	---	---	---	---	---	---	---	30.0
<i>Asarum europaeum</i>	---	---	---	---	---	---	---	25.6
<i>Viola reichenbachiana</i>	---	---	---	---	---	---	---	25.2
<i>Rubus nessensis</i>	---	---	---	---	---	---	---	26.1

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Holcus mollis</i>	---	---	---	---	10.3	---	---	---
<i>Maianthemum bifolium</i>	8.7	---	---	---	---	---	---	---
<i>Acer platanoides</i>	---	---	---	---	---	---	---	25.8
<i>Acer pseudoplatanus</i>	---	---	---	---	---	---	---	---
<i>Urtica dioica</i>	---	---	---	---	---	---	14.8	---
<i>Chaerophyllum aromaticum</i>	---	---	---	---	---	---	---	---
<i>Rumex sylvestris</i>	---	---	---	---	---	---	---	25.8
<i>Leontodon autumnalis</i>	---	---	---	---	24.2	---	---	---
<i>Pimpinella major</i>	---	---	---	---	---	---	---	---
<i>Rubus idaeus</i>	---	---	---	---	---	---	13.8	---
<i>Mentha longifolia</i>	---	---	---	---	3.1	---	---	---
<i>Stachys sylvatica</i>	---	---	---	---	---	---	---	---
<i>Oxalis acetosella</i>	---	---	---	---	---	---	14.2	---
<i>Melilotus albus</i>	---	---	---	---	---	---	---	---
<i>Silene nutans</i>	---	---	---	---	---	---	---	---
<i>Anemonoides nemorosa</i>	---	---	---	---	---	---	26.0	---
<i>Geum urbanum</i>	---	---	---	---	---	---	---	---
<i>Lysimachia nummularia</i>	---	---	---	---	---	---	---	---
<i>Helianthemum ovatum</i>	---	6.7	---	---	---	---	---	---
<i>Echium vulgare</i>	---	13.5	---	---	---	---	---	---
<i>Lapsana communis</i>	---	---	---	---	---	---	---	25.6
<i>Poa compressa</i>	---	---	---	---	---	---	---	---
<i>Lycopus europaeus</i>	---	---	---	---	---	---	---	---
<i>Centaurea phrygia</i>	---	---	---	---	---	13.8	---	---
<i>Tanacetum vulgare</i>	---	---	---	---	---	---	---	---
<i>Viola montana</i>	---	---	---	---	---	---	---	---
<i>Petasites albus</i>	---	---	---	---	---	---	---	---
<i>Stachys palustris</i>	---	---	---	---	---	---	---	---
<i>Euphrasia rostkoviana</i>	---	---	---	---	---	---	---	---
<i>Arctium lappa</i>	---	---	---	---	---	---	---	---
<i>Impatiens noli-tangere</i>	---	---	---	---	---	---	---	---
<i>Daucus carota</i>	---	---	---	---	---	15.6	---	---
<i>Senecio jacobaea</i>	---	---	---	---	---	12.6	---	---
<i>Epilobium species</i>	---	---	---	---	---	---	---	---
<i>Fallopia convolvulus</i>	---	---	---	---	---	---	---	---
<i>Ranunculus auricomus</i>	---	---	---	---	---	---	---	---
<i>Colchicum autumnale</i>	---	---	---	---	---	---	---	---
<i>Oberna behen</i>	---	5.9	---	---	---	---	---	---
<i>Equisetum arvense</i>	---	17.7	---	---	---	---	---	---
<i>Bellis perennis</i>	---	---	---	---	6.5	---	---	---
<i>Gymnocarpium dryopteris</i>	---	---	---	---	---	---	---	---
<i>Pastinaca sativa</i>	---	---	---	---	---	---	---	---
<i>Anthyllis vulneraria</i>	---	---	---	---	---	---	---	---
<i>Euphorbia amygdaloides</i>	10.2	---	---	---	---	---	---	---
<i>Prunus domestica</i>	---	---	---	---	---	---	---	---
<i>Sonchus oleraceus</i>	---	---	---	---	---	---	---	---
<i>Galium rotundifolium</i>	---	---	---	---	---	---	---	---
<i>Hylotelephium carpaticum</i>	---	---	---	---	---	---	---	---
<i>Luzula sylvatica</i>	---	---	---	---	---	---	35.7	---
<i>Sisyrinchium septentrionale</i>	---	---	---	---	---	9.5	---	---
<i>Epipactis helleborine</i>	---	---	---	---	---	---	---	---
<i>Verbascum nigrum</i>	---	---	---	---	---	---	---	---
<i>Listera ovata</i>	22.9	---	---	---	---	---	---	---
<i>Crepis rhoeadifolia</i>	---	---	---	---	---	---	---	---
<i>Crataegus monogyna</i>	---	9.8	---	---	---	---	---	---
<i>Alnus incana</i>	---	---	---	---	---	---	---	---
<i>Pulmonaria obscura</i>	---	---	---	---	---	---	---	---
<i>Dianthus glabrusculus</i>	---	---	---	---	---	---	---	---
<i>Rubus caesius</i>	---	---	2.7	---	---	---	---	---
<i>Lactuca serriola</i>	---	---	4.1	---	---	---	---	---
<i>Galeopsis tetrahit</i>	---	---	---	---	---	---	---	---
<i>Elymus caninus</i>	---	---	---	---	---	---	---	---
<i>Circaea lutetiana</i>	---	---	---	---	---	---	---	---
<i>Mycelis muralis</i>	---	---	---	---	---	---	---	---
<i>Juncus tenuis</i>	---	---	---	---	---	---	---	---
<i>Cerastium fontanum</i>	---	---	---	---	---	---	17.7	---
<i>Molinia caerulea</i>	---	23.1	---	---	---	---	---	---
<i>Swida sanguinea</i>	---	8.7	---	---	---	---	---	---
<i>Glechoma hederacea</i>	---	---	---	---	---	---	---	---
<i>Melittis carpatica</i>	---	---	---	---	---	---	---	---
<i>Equisetum telmateia</i>	---	---	---	---	---	---	---	---
<i>Centaureum erythraea</i>	---	---	37.5	---	---	---	---	---
<i>Polygala comosa</i>	---	21.8	---	---	---	---	---	---
<i>Centaurea rhenana</i>	---	---	---	---	---	---	---	---
<i>Sanicula europaea</i>	---	---	---	---	---	---	---	---
<i>Saponaria officinalis</i>	---	---	---	---	---	---	---	---
<i>Convallaria majalis</i>	---	6.2	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Anthriscus sylvestris</i>	---	---	---	---	---	---	---	---
<i>Pyrola rotundifolia</i>	---	---	---	---	---	---	---	---
<i>Carex pilosa</i>	---	---	---	---	---	---	---	---
<i>Ranunculus lanuginosus</i>	13.8	---	---	---	---	---	---	---
<i>Hieracium sylvularum</i>	16.3	---	---	---	---	---	---	---
<i>Luzula pilosa</i>	---	---	---	---	---	---	---	---
<i>Platanthera bifolia</i>	---	---	---	---	---	---	---	---
<i>Festuca regeliana</i>	---	---	---	---	---	---	---	---
<i>Campanula bononiensis</i>	---	16.7	---	---	---	---	---	---
<i>Cephalanthera longifolia</i>	---	---	---	---	---	---	---	---
<i>Hepatica nobilis</i>	---	---	---	---	---	---	---	---
<i>Lathyrus niger</i>	---	---	---	---	---	---	---	---
<i>Sarothamnus scoparius</i>	---	---	---	---	---	---	---	---
<i>Carex sylvatica</i>	---	---	---	---	---	---	---	---
<i>Tussilago farfara</i>	---	---	---	---	5.8	---	---	---
<i>Sorbus aucuparia</i>	---	---	---	---	---	10.1	---	---
<i>Salix viminalis</i>	---	---	---	---	---	---	---	---
<i>Rosa canina</i>	---	6.3	---	---	---	---	---	---
<i>Juncus atratus</i>	---	---	---	---	---	---	---	---
<i>Veronica serpyllifolia</i>	---	---	---	---	---	---	---	---
<i>Tragopogon pratensis</i>	---	19.5	---	---	---	---	---	---
<i>Amoria hybrida</i>	---	---	---	---	11.0	---	---	---
<i>Sanguisorba officinalis</i>	---	32.8	---	---	---	---	---	---
<i>Ranunculus nemorosus</i>	---	---	---	---	9.7	---	---	---
<i>Anthyllis macrocephala</i>	---	21.0	---	---	---	---	---	---
<i>Anchusa procera</i>	---	---	---	---	---	---	---	---
<i>Potentilla argentea</i>	---	8.3	---	---	---	---	---	---
<i>Anthyllis carpatica</i>	---	---	---	---	---	---	---	---
<i>Ajuga genevensis</i>	---	---	---	---	---	---	---	---
<i>Viola species</i>	---	---	---	---	10.8	---	---	---
<i>Typha shuttleworthii</i>	---	---	---	---	---	---	---	---
<i>Lythrum salicaria</i>	---	---	---	---	9.5	---	---	---
<i>Gentianella amarella</i>	---	---	---	---	---	---	---	---
<i>Oreogalum montanum</i>	---	---	---	---	---	21.5	---	---
<i>Euphorbia carniolica</i>	26.5	---	---	---	10.2	---	---	---
<i>Alopecurus pratensis</i>	---	---	---	---	---	---	---	---
<i>Potentilla reptans</i>	---	---	---	---	6.3	---	---	---
<i>Echinops exaltatus</i>	---	---	---	---	---	---	---	---
<i>Diphysastrum alpinum</i>	---	---	---	---	---	8.5	---	---
<i>Festuca picta</i>	---	---	---	---	34.3	---	---	---
<i>Omalotheca norvegica</i>	---	---	---	---	25.5	---	---	---
<i>Carex species</i>	---	---	---	---	9.0	---	---	---
<i>Aconitum moldavicum</i>	---	---	---	---	---	---	---	---
<i>Glyceria notata</i>	---	---	---	---	---	---	---	---
<i>Chamaenerion angustifolium</i>	---	---	---	---	27.6	---	---	---
<i>Euphorbia stricta</i>	---	---	---	---	---	---	---	---
<i>Thymus roegneri</i>	---	---	---	---	10.2	---	---	---
<i>Potentilla anserina</i>	---	---	---	---	5.5	---	---	---
<i>Stachys alpina</i>	20.3	---	---	---	---	---	---	---
<i>Chrysaspis dubia</i>	---	---	---	---	15.9	---	---	---
<i>Lamium purpureum</i>	---	---	---	---	---	---	---	---
<i>Omalotheca sylvatica</i>	---	---	---	---	17.3	14.7	---	---
<i>Rhinanthus bosnensis</i>	---	---	---	---	---	23.8	---	---
<i>Achillea carpatica</i>	27.9	---	---	---	---	---	---	---
<i>Ranunculus flammula</i>	---	---	---	---	7.2	---	---	---
<i>Myosotis species</i>	---	---	---	---	---	---	---	---
<i>Erysimum canescens</i>	---	---	---	---	---	---	---	---
<i>Lemna minor</i>	---	---	---	---	---	---	---	---
<i>Agrostis vinealis</i>	---	---	---	---	---	---	---	---
<i>Lilium martagon</i>	22.2	---	---	---	18.1	---	---	---
<i>Orchis palustris</i>	---	---	---	---	7.4	---	---	---
<i>Anthyllis vulneraria s.l.</i>	---	---	---	---	37.6	---	---	---
<i>Euphrasia vernalis</i>	---	---	---	---	7.6	---	---	---
<i>Luzula pallidula</i>	---	---	---	---	4.3	---	---	---
<i>Galium species</i>	---	---	---	---	---	---	---	---
<i>Syringa vulgaris</i>	---	---	---	---	---	---	---	---
<i>Gentianella lingulata</i>	---	---	---	---	24.8	---	---	---
<i>Galium bellatulum</i>	30.3	---	---	---	---	---	---	---
<i>Eleocharis ovata</i>	---	---	---	---	---	---	---	---
<i>Trommsdorffia uniflora</i>	---	---	---	---	22.0	---	---	---
<i>Centaurium pulchellum</i>	---	---	25.2	---	---	---	---	---
<i>Conyza canadensis</i>	---	---	---	---	---	---	---	---
<i>Trifolium arvense</i>	---	---	---	---	---	---	---	---
<i>Berteroa incana</i>	---	---	---	---	---	---	---	---
<i>Malus domestica</i>	---	---	---	---	---	---	---	---
<i>Dianthus campestris</i>	---	---	---	---	---	---	---	---
<i>Trifolium hybridum</i>	---	---	---	---	10.6	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Erophila verna</i>	---	---	---	---	---	---	---	---
<i>Rumex alpestris</i>	---	---	---	---	---	---	---	---
<i>Ulmus pumila</i>	---	---	25.6	---	---	---	---	---
<i>Medicago romanica</i>	---	28.7	---	---	---	---	---	---
<i>Viola persicifolia</i>	---	---	25.6	---	---	---	---	---
<i>Veronica species</i>	---	---	---	---	---	---	---	---
<i>Holosteum umbellatum</i>	---	---	---	---	---	---	---	---
<i>Equisetum ramosissimum</i>	---	---	---	---	---	---	---	---
<i>Verbena officinalis</i>	---	---	---	---	---	---	---	---
<i>Thymus species</i>	---	---	---	---	---	---	---	---
<i>Rumex crispus</i>	---	---	---	---	---	---	---	---
<i>Centaurea pseudocoriacea</i>	---	---	---	---	---	---	---	---
<i>Galatella punctata</i>	---	---	44.2	---	---	---	---	---
<i>Bistorta vivipara</i>	22.0	---	---	---	---	---	---	---
<i>Potentilla thyrsoflora</i>	---	---	---	---	---	---	---	---
<i>Galium verticillatum</i>	---	---	---	---	---	---	---	---
<i>Rhus typhina</i>	---	---	---	---	---	---	---	---
<i>Valerianella locusta</i>	---	---	---	---	---	---	---	---
<i>Anacamptis pyramidalis</i>	---	---	---	---	---	---	---	---
<i>Ophioglossum vulgatum</i>	---	---	---	---	---	---	---	---
<i>Trifolium dentatum</i>	---	---	---	---	---	---	---	---
<i>Orchis morio</i>	---	---	---	---	---	---	---	---
<i>Centaurium littorale</i>	---	---	---	---	10.6	---	---	---
<i>Plantago major</i>	---	---	---	---	7.7	---	---	---
<i>Potentilla pilosa</i>	---	---	---	---	---	---	---	---
<i>Medicago lupulina</i>	---	---	---	---	---	---	---	---
<i>Carex aquatilis</i>	---	---	---	---	---	---	---	---
<i>Alisma plantago-aquatica</i>	---	---	---	---	---	---	---	---
<i>Bidens tripartita</i>	---	---	---	---	---	---	---	---
<i>Symphytum officinale</i>	---	---	---	---	---	---	---	---
<i>Astragalus danicus</i>	---	---	---	---	---	---	---	---
<i>Glyceria fluitans</i>	---	---	---	---	---	---	---	---
<i>Carex acutiformis</i>	---	---	---	---	---	---	---	---
<i>Gentiana pneumonanthe</i>	---	---	---	---	9.6	---	---	---
<i>Veronica anagallis-aquatica</i>	---	---	---	---	---	---	---	---
<i>Avena fatua</i>	---	---	---	---	---	---	---	---
<i>Xanthium species</i>	---	---	---	---	---	---	---	---
<i>Salsola praecox</i>	---	---	---	---	---	---	---	---
<i>Bunias orientalis</i>	---	---	---	---	---	---	---	---
<i>Silene nemoralis</i>	---	---	---	---	---	---	---	---
<i>Vicia sativa</i>	---	---	---	---	---	---	---	---
<i>Polygonum biaristatum</i>	---	---	---	---	---	---	---	---
<i>Veronica arvensis</i>	---	---	---	---	---	---	---	---
<i>Pyrus communis</i>	---	3.3	---	---	---	---	---	---
<i>Viola tricolor</i>	---	---	---	---	21.1	---	---	---
<i>Malaxis monophyllos</i>	---	---	---	---	---	---	---	---
<i>Vicia sordida</i>	---	---	---	---	---	---	---	---
<i>Allium angulosum</i>	---	---	25.6	---	---	---	---	---
<i>Mentha x verticillata</i>	---	---	---	---	---	---	---	---
<i>Crepis tectorum</i>	---	---	---	---	---	---	---	---
<i>Festuca taurica</i>	---	---	---	---	---	---	---	---
<i>Myosotis arvensis</i>	---	---	---	---	---	---	---	---
<i>Dianthus carthusianorum</i>	---	7.5	---	---	---	---	---	---
<i>Euphorbia salicifolia</i>	---	---	25.6	---	---	---	---	---
<i>Eryngium planum</i>	---	---	---	---	---	---	---	---
<i>Amoria fragifera</i>	---	---	---	---	---	---	---	---
<i>Vicia species</i>	---	---	---	---	10.6	---	---	---
<i>Rubus saxatilis</i>	---	---	---	---	---	---	---	---
<i>Juncus bufonius</i>	---	---	---	---	---	---	---	---
<i>Calamagrostis pseudophragmites</i>	---	---	---	---	---	---	---	---
<i>Sagina procumbens</i>	---	---	---	---	---	---	---	---
<i>Scorzonera laciniata</i>	---	---	25.6	---	---	---	---	---
<i>Euphorbia virgata</i>	---	---	---	---	---	---	---	---
<i>Hieracium caespitosum</i>	---	---	---	---	9.4	---	---	---
<i>Artemisia vulgaris</i>	---	---	30.4	---	---	---	---	---
<i>Carex vulpina</i>	---	---	---	---	---	---	---	---
<i>Crocus heuffelianus</i>	---	---	---	---	---	37.9	---	---
<i>Omalotheca supina</i>	---	---	---	---	---	---	---	---
<i>Festuca ovina</i>	---	---	---	---	---	---	---	---
<i>Leucorchis albidula</i>	---	---	---	---	---	20.4	---	---
<i>Laserpitium alpinum</i>	---	---	---	---	---	8.6	---	---
<i>Cuscuta europaea</i>	---	---	---	---	24.4	---	---	---
<i>Cardaria draba</i>	---	---	35.7	---	---	---	---	---
<i>Mentha spicata</i>	---	---	---	---	---	---	---	---
<i>Cuscuta species</i>	---	---	---	---	---	---	---	---
<i>Steris viscaria</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Galium ruthenicum</i>	---	---	---	---	33.2	---	---	---
<i>Cirsium vulgare</i>	---	---	---	---	---	---	---	---
<i>Carex muricata</i>	---	---	---	---	---	---	---	---
<i>Chrysopsis campestris</i>	---	---	---	---	---	---	---	---
<i>Leonurus cardiaca</i>	---	---	25.4	---	---	---	---	---
<i>Melandrium album</i>	---	---	25.1	---	---	---	---	---
<i>Leontodon kulczinskii</i>	---	---	---	---	---	---	---	---
<i>Impatiens parviflora</i>	---	---	25.4	---	---	---	---	---
<i>Rumex hydrolapathum</i>	---	---	---	---	---	---	---	---
<i>Ranunculus reptans</i>	---	---	---	---	---	---	---	---
<i>Minuartia aucta</i>	---	---	---	---	---	---	---	---
<i>Saxifraga tridactylites</i>	---	---	---	---	---	---	---	---
<i>Asplenium trichomanes</i>	---	---	---	---	---	---	---	---
<i>Trinia kitaibelii</i>	---	---	---	---	---	---	---	---
<i>Rhinanthus aestivalis</i>	---	---	---	---	---	---	---	---
<i>Linum perenne</i>	---	15.2	---	---	---	---	---	---
<i>Agrostis albida</i>	---	---	---	---	---	---	---	---
<i>Crepis jacquinii</i>	22.0	---	---	---	---	---	---	---
<i>Carex melanostachya</i>	---	---	40.7	---	---	---	---	---
<i>Salvia nemorosa</i>	---	23.6	---	---	---	---	---	---
<i>Orobanche species</i>	---	---	---	---	---	---	---	---
<i>Lathyrus tuberosus</i>	---	9.8	---	---	---	---	---	---
<i>Lepidium ruderales</i>	---	---	---	---	---	---	---	---
<i>Diploxys muralis</i>	---	---	---	---	---	---	---	---
<i>Eleocharis palustris</i>	---	---	---	---	---	---	---	---
<i>Psammophiliella muralis</i>	---	---	25.4	---	---	---	---	---
<i>Erigeron alpinus</i>	20.7	---	---	---	---	---	---	---
<i>Scorzonera cana</i>	---	---	31.0	---	---	---	---	---
<i>Populus alba</i>	---	---	---	---	---	---	---	---
<i>Phragmites australis</i>	---	2.2	---	---	---	---	---	---
<i>Dipsacus laciniatus</i>	---	---	25.1	---	---	---	---	---
<i>Inula salicina</i>	---	34.3	---	---	---	---	---	---
<i>Potentilla intermedia</i>	---	---	---	---	---	---	---	---
<i>Telekia speciosa</i>	---	---	---	---	---	---	---	---
<i>Cynoglossum officinale</i>	---	---	---	---	---	---	---	---
<i>Viola ambigua</i>	---	0.4	---	---	---	---	---	---
<i>Asplenium ruta-muraria</i>	37.3	---	---	---	---	---	---	---
<i>Turritis glabra</i>	---	---	---	---	---	---	---	---
<i>Cerastium ruderales</i>	---	---	---	---	---	---	---	---
<i>Euphrasia montana</i>	---	---	---	---	---	---	---	---
<i>Cerastium capillatum</i>	---	---	---	---	---	---	---	---
<i>Dipsacus sylvestris</i>	---	---	---	---	---	---	---	---
<i>Ambrosia artemisiifolia</i>	---	---	36.0	---	---	---	---	---
<i>Alopecurus geniculatus</i>	---	---	---	---	---	---	---	---
<i>Saxifraga luteo-viridis</i>	24.3	---	---	---	---	---	---	---
<i>Veronica bellidioides</i>	---	---	---	---	---	---	---	---
<i>Rumex species</i>	---	---	25.6	---	---	---	---	---
<i>Noccaea dacica</i>	---	---	---	---	---	---	---	---
<i>Scutellaria hastifolia</i>	---	---	31.4	---	---	---	---	---
<i>Triglochin maritimum</i>	---	---	---	---	---	---	---	---
<i>Limonium caspium</i>	---	---	---	---	---	---	---	---
<i>Echinochloa crusgalli</i>	---	---	---	---	---	---	---	---
<i>Carex remota</i>	---	---	---	---	---	---	---	---
<i>Barbarea vulgaris</i>	---	---	---	---	---	---	---	---
<i>Robinia pseudoacacia</i>	---	0.4	---	---	---	---	---	---
<i>Trisetum alpestre</i>	38.7	---	---	---	---	---	---	---
<i>Ambrosia aptera</i>	---	---	---	---	---	---	---	---
<i>Hieracium pilosissimum</i>	---	---	---	---	---	---	---	---
<i>Fragaria viridis</i>	---	37.5	---	---	---	---	---	---
<i>Linum extraaxillare</i>	22.8	---	---	---	---	---	---	---
<i>Geranium species</i>	---	---	---	---	---	---	---	---
<i>Leontopodium alpinum</i>	---	---	---	---	---	---	---	---
<i>Ulmus laevis</i>	---	---	---	---	---	---	---	---
<i>Silene chlorantha</i>	---	---	---	---	---	---	---	---
<i>Abies alba</i>	---	---	---	---	---	---	---	---
<i>Ranunculus zapalowiczii</i>	---	---	---	---	---	---	---	---
<i>Matricaria recutita</i>	---	---	---	---	---	---	---	---
<i>Coronaria coriacea</i>	---	---	---	---	---	---	---	---
<i>Inula conyza</i>	---	---	---	---	---	---	---	---
<i>Polystichum lonchitis</i>	---	---	---	---	---	---	---	---
<i>Solanum dulcamara</i>	---	---	---	---	---	---	---	---
<i>Berberis vulgaris</i>	---	---	---	---	---	---	---	---
<i>Saxifraga adscendens</i>	16.4	---	---	---	---	---	---	---
<i>Persicaria maculata</i>	---	---	---	---	---	---	---	---
<i>Rhamnus tinctoria</i>	---	---	---	---	---	---	---	---
<i>Cirsium incanum</i>	---	---	---	---	---	---	---	---
<i>Linaria bessarabica</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Veronica dentata</i>	---	---	---	---	---	---	---	---
<i>Hieracium eurofinmarkicum</i>	---	---	---	---	---	---	---	---
<i>Dactylorhiza sambucina</i>	---	---	---	---	---	---	---	---
<i>Juncus thomasi</i>	---	---	---	---	---	---	---	---
<i>Viola collina</i>	---	---	---	---	---	---	---	---
<i>Arabis sagittata</i>	---	---	---	---	---	---	---	---
<i>Chrysanthemum segetum</i>	---	---	---	---	---	---	---	---
<i>Campanula rapunculus</i>	---	---	---	---	---	---	---	---
<i>Thlaspi arvense</i>	---	---	---	---	---	---	---	---
<i>Gymnocarpium robertianum</i>	---	---	---	---	---	---	---	---
<i>Ranunculus species</i>	---	---	---	---	---	---	---	---
<i>Raphanus raphanistrum</i>	---	---	---	---	---	---	---	---
<i>Sonchus arvensis</i>	---	---	---	---	---	---	---	---
<i>Rumex maritimus</i>	---	---	---	---	---	---	---	---
<i>Bupleurum ranunculoides</i>	---	---	---	---	---	---	---	---
<i>Helianthemum nummularium</i>	---	---	---	---	---	---	---	---
<i>Hieracium hypoglaucum</i>	---	---	---	---	---	---	---	---
<i>Myosotis micrantha</i>	---	---	---	---	---	---	---	---
<i>Laser trilobum</i>	---	---	---	---	---	---	---	---
<i>Schisandra chinensis</i>	---	---	---	---	---	---	---	---
<i>Alchemilla gracilis</i>	---	---	---	---	---	---	---	---
<i>Trientalis europaea</i>	---	---	---	---	---	---	---	---
<i>Hieracium auratum</i>	---	---	---	---	---	---	---	---
<i>Pulmonaria rubra</i>	---	---	---	---	---	---	---	---
<i>Rumex conglomeratus</i>	---	---	---	---	---	---	---	---
<i>Persicaria hydropiper</i>	---	---	---	---	---	---	---	---
<i>Centaureum uliginosum</i>	---	---	---	---	---	---	---	---
<i>Agropyron pectinatum</i>	---	---	---	---	---	---	---	---
<i>Cornus mas</i>	---	---	---	---	---	---	---	---
<i>Euphrasia hirtella</i>	---	---	---	---	---	---	---	---
<i>Rhamnus cathartica</i>	---	---	---	---	---	---	---	---
<i>Herniaria hirsuta</i>	---	---	---	---	---	---	---	---
<i>Dianthus stenocalyx</i>	---	---	---	---	---	---	---	---
<i>Koeleria grandis</i>	---	---	---	---	---	---	---	---
<i>Serratula species</i>	---	---	---	---	---	---	---	---
<i>Juncus species</i>	---	---	---	---	---	---	---	---
<i>Cynoglossis barrelieri</i>	---	---	---	---	---	---	---	---
<i>Noccaea kovatsii</i>	---	---	---	---	---	---	---	---
<i>Thymus ovatus</i>	---	---	---	---	---	---	---	---
<i>Galega officinalis</i>	---	---	---	---	---	---	---	---
<i>Scorzonera mollis</i>	---	---	---	---	---	---	---	---
<i>Artemisia caucasica</i>	---	---	---	---	---	---	---	---
<i>Iris pseudacorus</i>	---	---	---	---	---	---	---	---
<i>Festuca fallax</i>	12.4	---	---	---	---	---	---	---
<i>Apera spica-venti</i>	---	---	---	---	---	---	---	---
<i>Viola accrescens</i>	---	---	---	---	---	---	---	---
<i>Loiseleuria species</i>	---	---	---	---	---	---	---	---
<i>Galium tinctorium</i>	---	---	---	---	---	---	---	---
<i>Calamagrostis species</i>	---	---	---	---	---	---	---	---
<i>Crambe species</i>	---	---	---	---	---	---	---	---
<i>Papaver albiflorum</i>	---	---	---	---	---	---	---	---
<i>Poa bulbosa</i>	---	---	---	---	---	---	---	---
<i>Heracleum ligusticifolium</i>	---	---	---	---	---	---	---	---
<i>Urtica urens</i>	---	---	---	---	---	---	---	---
<i>Euphorbia helioscopia</i>	---	---	---	---	---	---	---	---
<i>Astragalus vicifolius</i>	---	---	---	---	---	---	---	---
<i>Juncus gerardii</i>	---	---	---	---	---	---	---	---
<i>Galanthus nivalis</i>	---	---	---	---	---	---	---	---
<i>Dipsacus sativus</i>	---	---	---	---	---	---	---	---
<i>Hieracium caesiiflorum</i>	---	---	---	---	---	---	---	---
<i>Amorpha fruticosa</i>	---	---	---	---	---	---	---	---
<i>Mentha pulegium</i>	---	---	---	---	---	---	---	---
<i>Hieracium praticola</i>	---	---	---	---	---	---	---	---
<i>Tripolium pannonicum</i>	---	29.8	---	---	---	---	---	---
<i>Dictamnus albus</i>	---	---	---	---	---	---	---	---
<i>Angelica species</i>	---	---	---	---	---	---	---	---
<i>Galeopsis ladanum</i>	---	---	---	---	---	---	---	---
<i>Trifolium species</i>	---	---	---	---	---	---	---	---
<i>Moneses uniflora</i>	---	---	---	---	---	---	---	---
<i>Bellardiochloa violacea</i>	---	---	---	---	---	---	---	---
<i>Caragana arborescens</i>	---	---	---	---	---	---	---	---
<i>Ptarmica tenuifolia</i>	---	---	---	---	---	---	---	---
<i>Prunus divaricata</i>	---	---	---	---	---	---	---	---
<i>Hieracium vulsum</i>	---	---	---	---	---	---	---	---
<i>Knautia species</i>	---	---	---	---	---	---	---	---
<i>Festuca trachyphylla</i>	---	---	---	---	---	---	---	---
<i>Tripleurospermum perforatum</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Euphorbia villosa</i>	---	---	---	---	---	---	---	---
<i>Calystegia sepium</i>	---	---	---	---	---	---	---	---
<i>Nigella arvensis</i>	---	---	---	---	---	---	---	---
<i>Arctium minus</i>	---	---	---	---	---	---	---	---
<i>Carduus acanthoides</i>	---	---	---	---	---	---	---	---
<i>Vicia tetrasperma</i>	---	10.0	---	---	---	---	---	---
<i>Muscari botryoides</i>	---	---	---	---	---	---	---	---
<i>Glaucium corniculatum</i>	---	---	---	---	---	---	---	---
<i>Galium suberectum</i>	17.9	---	---	---	---	---	---	---
<i>Lathyrus vernus</i>	---	---	---	---	---	---	---	---
<i>Trifolium striatum</i>	---	---	---	---	---	---	---	---
<i>Picris hieracioides</i>	---	---	---	---	---	---	---	---
<i>Descurainia sophia</i>	---	---	---	---	---	---	---	---
<i>Melissa officinalis</i>	---	---	---	---	---	---	---	---
<i>Festuca inarmata</i>	12.7	---	---	---	---	---	---	---
<i>Luzula species</i>	---	---	---	---	---	---	---	---
<i>Trifolium canescens</i>	---	---	---	---	---	---	---	---
<i>Carex colchica</i>	---	---	---	---	---	---	---	---
<i>Ballota nigra</i>	---	---	---	---	---	---	---	---
<i>Humulus lupulus</i>	---	---	---	---	---	---	---	---
<i>Polycnemum arvense</i>	---	---	---	---	---	---	---	---
<i>Polygonum species</i>	---	---	---	---	---	---	---	---
<i>Corydalis bulbosa</i>	---	---	---	---	---	---	---	---
<i>Thymus pulchellus</i>	---	---	---	---	---	---	---	---
<i>Chamaecytisus paczoskii</i>	---	---	---	---	---	---	---	---
<i>Viola arvensis</i>	---	---	---	---	---	---	---	---
<i>Hypericum elegans</i>	---	---	---	---	---	---	---	---
<i>Erysimum hungaricum</i>	---	---	---	---	---	---	---	---
<i>Scorzonera humilis</i>	---	19.0	---	---	---	---	---	---
<i>Nigritella nigra</i>	30.9	---	---	---	---	---	---	---
<i>Artemisia absinthium</i>	---	19.4	---	---	---	---	---	---
<i>Eupatorium cannabinum</i>	---	---	---	---	---	---	---	---
<i>Cerastium lanatum</i>	---	---	---	---	---	---	---	---
<i>Ranunculus sardous</i>	---	---	---	---	---	---	---	---
<i>Cuscuta epithymum</i>	---	---	---	---	---	---	---	---
<i>Inula species</i>	---	---	---	---	---	---	---	---
<i>Carex caryophylla</i>	---	---	---	---	---	---	---	---
<i>Gentiana acaulis</i>	---	---	---	---	---	---	---	---
<i>Filipendula ulmaria</i>	---	---	---	---	---	---	---	---
<i>Potentilla humifusa</i>	---	---	---	---	---	---	---	---
<i>Juncus tyraicus</i>	---	---	---	---	---	---	---	---
<i>Hieracium bauhini</i>	---	---	---	---	---	---	---	---
<i>Succisella inflexa</i>	---	---	---	---	---	---	---	---
<i>Cardamine hirsuta</i>	---	---	---	---	---	---	---	---
<i>Helictotrichon pratense</i>	---	---	---	---	---	---	---	---
<i>Gentiana cruciata</i>	---	---	---	---	---	---	---	---
<i>Botrychium lunaria</i>	19.7	---	---	---	---	---	---	---
<i>Poa annua</i>	---	---	---	10.6	---	---	---	---
<i>Veronica urticifolia</i>	28.0	---	---	---	---	---	---	---
<i>Succisella species</i>	---	---	---	---	---	---	---	---
<i>Rumex confertus</i>	---	---	---	---	---	---	---	---
<i>Trifolium ochroleucon</i>	---	---	---	12.7	---	---	---	---
<i>Prunus stepposa</i>	---	---	---	---	---	---	---	---
<i>Mentha aquatica</i>	---	---	---	---	---	---	---	---
<i>Lolium perenne</i>	---	---	---	20.7	---	---	---	---
<i>Myricaria germanica</i>	---	---	---	---	---	---	---	---
<i>Melilotus officinalis</i>	---	19.2	---	---	---	---	---	---
<i>Aster bessarabicus</i>	---	---	---	---	---	---	---	---
<i>Anisantha tectorum</i>	---	---	---	---	---	---	---	---
<i>Bromus mollis</i>	---	---	---	18.3	---	---	---	---
<i>Hypochoeris radicata</i>	---	---	---	20.3	---	---	---	---
<i>Salix species</i>	---	---	---	---	---	---	---	---
<i>Viola riviniana</i>	---	---	---	---	---	---	---	---
<i>Trifolium diffusum</i>	---	---	---	22.6	---	---	---	---
<i>Epipactis palustris</i>	---	---	---	---	---	---	---	---
<i>Orchis mascula</i>	---	---	---	10.7	---	---	---	---
<i>Achillea taurica</i>	---	---	---	---	---	---	---	---
<i>Euphorbia virgultosa</i>	---	---	---	---	---	---	---	---
<i>Pheum nodosum</i>	---	---	---	---	---	---	---	---
<i>Rosa minimalis</i>	---	---	---	---	---	---	---	---
<i>Valeriana officinalis</i>	---	---	---	---	---	---	---	---
<i>Fraxinus excelsior</i>	---	---	---	---	---	---	---	---
<i>Agrimonia pilosa</i>	---	---	---	---	---	---	---	---
<i>Delphinium nacladense</i>	16.4	---	---	---	---	---	---	---
<i>Arabis hornungiana</i>	18.9	---	---	---	---	---	---	---
<i>Galium carpaticum</i>	12.7	---	---	---	---	---	---	---
<i>Anthemis tinctoria</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Symphytum popovii</i>	16.4	---	---	---	---	---	---	---
<i>Selaginella selaginoides</i>	35.3	---	---	---	---	---	---	---
<i>Filipendula intermedia</i>	---	---	---	---	---	---	---	---
<i>Rosa corymbifera</i>	---	---	---	---	---	---	---	---
<i>Eriophorum gracile</i>	---	---	---	---	---	---	---	---
<i>Galinsoga ciliata</i>	---	---	---	---	---	---	---	---
<i>Polygonatum hirtum</i>	---	---	---	---	---	---	---	---
<i>Aquilegia transsilvanica</i>	19.4	---	---	---	---	---	---	---
<i>Gentianopsis ciliata</i>	---	---	---	---	---	---	---	---
<i>Bidens frondosa</i>	---	---	---	---	---	---	---	---
<i>Thalictrum simplex</i>	---	---	---	---	---	---	---	---
<i>Calendula arvensis</i>	---	---	---	---	---	---	---	---
<i>Achillea subtanacetifolia</i>	---	---	---	---	---	---	---	---
<i>Vicia angustifolia</i>	---	18.4	---	---	---	---	---	---
<i>Minuartia oxypetala</i>	14.6	---	---	---	---	---	---	---
<i>Iris germanica</i>	---	---	---	---	---	---	---	---
<i>Sideritis montana</i>	---	---	---	---	---	---	---	---
<i>Pheum hirsutum</i>	14.6	---	---	---	---	---	---	---
<i>Crataegus curvisepala</i>	---	---	---	---	---	---	---	---
<i>Chrysaspis aurea</i>	---	---	---	11.4	---	---	---	---
<i>Phalaroides arundinacea</i>	---	---	---	---	---	---	---	---
<i>Centaurea marmarosiensis</i>	17.6	---	---	---	---	---	---	---
<i>Carlina cirsiooides</i>	---	---	---	---	---	---	---	---
<i>Lathyrus pisiformis</i>	---	---	---	---	---	---	---	---
<i>Carex cespitosa</i>	---	---	---	---	---	---	---	---
<i>Erigeron acris</i>	---	---	---	---	---	---	---	---
<i>Stellaria species</i>	---	---	---	---	---	---	---	---
<i>Orobanche alba</i>	12.4	---	---	---	---	---	---	---
<i>Potentilla goldbachii</i>	12.7	---	---	---	---	---	---	---
<i>Ficaria verna</i>	---	---	---	---	---	---	---	---
<i>Alchemilla xanthochlora</i>	---	---	---	---	---	---	---	---
<i>Thymus serpyllum</i>	---	---	---	---	---	---	---	---
<i>Hieracium lactucella</i>	---	---	---	---	---	---	---	---
<i>Stachys annua</i>	---	---	---	---	---	---	---	---
<i>Hypericum quadrangulum</i>	---	---	---	---	---	---	---	---
<i>Crepis setosa</i>	---	---	---	---	---	---	---	---
<i>Helianthemum species</i>	---	---	---	---	---	---	---	---
<i>Koeleria glauca</i>	---	---	---	---	---	---	---	---
<i>Polygala amarella</i>	14.2	---	---	---	---	---	---	---
<i>Rhinanthus species</i>	12.7	---	---	---	---	---	---	---
<i>Trollius altissimus</i>	14.6	---	---	---	---	---	---	---
<i>Medicago glandulosa</i>	---	---	---	---	---	---	---	---
<i>Tephrosia besseriana</i>	---	---	---	---	---	---	---	---
<i>Cardaminopsis arenosa</i>	15.6	---	---	---	---	---	---	---
<i>Erysimum witmannii</i>	17.9	---	---	---	---	---	---	---
<i>Lupinaster pentaphyllus</i>	---	---	---	---	---	---	---	---
<i>Campanula species</i>	---	---	---	---	---	---	---	---
<i>Primula species</i>	---	---	---	---	---	---	---	---
<i>Polygonum aviculare</i>	---	---	---	---	---	---	---	---
<i>Asparagus tenuifolius</i>	---	---	---	---	---	---	---	---
<i>Cardaminopsis ovirensis</i>	---	---	---	---	---	---	---	---
<i>Epilobium collinum</i>	---	---	---	---	---	---	---	---
<i>Achillea distans</i>	17.2	---	---	---	---	---	---	---
<i>Euphorbia lucida</i>	---	---	---	---	---	---	---	---
<i>Acer tataricum</i>	---	---	---	---	---	---	---	---
<i>Veronica baumgartenii</i>	7.2	---	---	---	---	---	---	---
<i>Symphytum microcalyx</i>	---	---	---	---	---	---	---	---
<i>Fritillaria meleagris</i>	---	---	---	---	---	---	---	---
<i>Aconitum pseudanthora</i>	---	---	---	---	---	---	---	---
<i>Sempervivum species</i>	---	---	---	36.1	---	---	---	---
<i>ligularia glauca</i>	---	9.3	---	---	---	---	---	---
<i>Inula helenium</i>	---	---	---	---	---	---	---	---
<i>Bromopsis erecta</i>	---	11.0	---	---	---	---	---	---
<i>Daphne mezereum</i>	11.9	---	---	---	---	---	---	---
<i>Saussurea alpina</i>	---	---	---	---	---	---	---	---
<i>Gentiana lutea</i>	---	---	---	---	---	---	---	---
<i>Rosa crenatula</i>	---	10.2	---	---	---	---	---	---
<i>Asyneuma canescens</i>	---	23.7	---	---	---	---	---	---
<i>Melampyrum arvense</i>	---	24.6	---	---	---	---	---	---
<i>Arabis alpina</i>	---	---	---	---	---	---	---	---
<i>Astragalus monspessulanus</i>	---	18.2	---	---	---	---	---	---
<i>Jurinea calcarea</i>	---	24.0	---	---	---	---	---	---
<i>Anthemis carpatica</i>	---	---	---	37.0	---	---	---	---
<i>Microthlaspi perfoliatum</i>	---	---	---	---	---	---	---	---
<i>Empetrum nigrum</i>	---	---	---	36.1	---	---	---	---
<i>Draba carinthiaca</i>	---	---	---	37.0	---	---	---	---
<i>Potentilla recta</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Linum flavum</i>	--	25.7	--	--	--	--	--	--
<i>Schivereckia podolica</i>	--	13.2	--	--	--	--	--	--
<i>Crepis praemorsa</i>	--	16.0	--	--	--	--	--	--
<i>Polygonatum multiflorum</i>	--	--	--	--	--	--	--	--
<i>Rhodiola rosea</i>	--	--	--	--	--	--	--	--
<i>Sambucus ebulus</i>	--	--	--	--	--	--	--	--
<i>Adenostyles alliariae</i>	--	--	--	--	19.5	--	--	--
<i>Solidago alpestris</i>	--	--	--	--	22.5	--	--	--
<i>Geranium alpestre</i>	4.3	--	--	--	31.6	--	--	--
<i>Dianthus barbatus</i>	--	--	--	--	--	--	--	--
<i>Centaurea mollis</i>	--	--	--	--	15.7	--	--	--
<i>Leontodon species</i>	--	--	--	--	--	--	--	--
<i>Verbascum thapsus</i>	--	--	--	--	--	--	--	--
<i>Campanula rapunculoides</i>	27.3	4.7	--	--	--	--	--	--
<i>Gymnadenia odoratissima</i>	--	--	--	--	--	--	--	--
<i>Gentianella lutescens</i>	--	--	--	--	--	--	--	--
<i>Chrysosplenium alternifolium</i>	--	--	--	--	--	--	--	--
<i>Symphytum cordatum</i>	--	--	--	--	--	--	--	--
<i>Stellaria nemorum</i>	--	--	--	--	19.3	--	--	--
<i>Medicago sativa</i>	--	10.8	--	--	--	--	--	--
<i>Malus sylvestris</i>	--	--	--	--	--	--	--	--
<i>Coeloglossum viride</i>	31.1	--	--	--	--	--	--	--
<i>Trommsdorffia maculata</i>	--	21.0	--	--	--	--	--	--
<i>Luzula luzulina</i>	--	--	--	--	--	--	--	--
<i>Lonicera xylosteum</i>	--	--	--	--	--	--	--	--
<i>Poa alpina</i>	32.0	--	--	--	7.1	--	--	--
<i>Cystopteris regia</i>	--	--	--	--	--	--	--	--
<i>Doronicum austriacum</i>	--	--	--	--	17.2	--	--	--
<i>Galium aparine</i>	--	--	--	--	--	--	--	--
<i>Euphorbia volhynica</i>	--	--	--	--	--	--	--	--
<i>Verbascum lanatum</i>	--	--	--	--	--	--	--	--
<i>Falcaria vulgaris</i>	--	36.9	--	--	--	--	--	--
<i>Carex rupestris</i>	--	--	--	--	--	--	--	--
<i>Festuca versicolor</i>	--	--	--	--	--	--	--	--
<i>Serratula lycopifolia</i>	--	14.2	--	--	--	--	--	--
<i>Cleistogenes bulgarica</i>	--	14.5	--	--	--	--	--	--
<i>Galium campanulatum</i>	--	9.3	--	--	--	--	--	--
<i>Echium russicum</i>	--	13.8	--	--	--	--	--	--
<i>Dianthus armeria</i>	--	--	--	--	--	--	--	--
<i>Vicia sylvatica</i>	--	--	--	--	--	--	--	--
<i>Stipa pulcherrima</i>	--	11.8	--	--	--	--	--	--
<i>Stipa pennata</i>	--	29.6	--	--	--	--	--	--
<i>Artemisia marschalliana</i>	--	10.2	--	--	--	--	--	--
<i>Hieracium virosium</i>	--	--	--	--	--	--	--	--
<i>Papaver rhoeas</i>	--	11.0	--	--	--	--	--	--
<i>Cruciata laevipes</i>	--	--	--	--	--	--	--	--
<i>Centaurea pseudomaculosa</i>	--	36.6	--	--	--	--	--	--
<i>Chamaecytisus podolicus</i>	--	10.2	--	--	--	--	--	--
<i>Stachys germanica</i>	--	--	--	--	--	--	--	--
<i>Conium maculatum</i>	--	--	--	--	--	--	--	--
<i>Echinops sphaerocephalus</i>	--	--	--	--	--	--	--	--
<i>Arenaria leptocladus</i>	--	9.3	--	--	--	--	--	--
<i>Mercurialis ovata</i>	--	13.2	--	--	--	--	--	--
<i>Camelina microcarpa</i>	--	11.0	--	--	--	--	--	--
<i>Vicia hirsuta</i>	--	--	--	--	--	--	--	--
<i>Minuartia thyraica</i>	--	--	--	--	--	--	--	--
<i>Herniaria besseri</i>	--	10.2	--	--	--	--	--	--
<i>Lathyrus pannonicus</i>	--	35.8	--	--	--	--	--	--
<i>Campanula cervicaria</i>	--	11.1	--	--	--	--	--	--
<i>Potentilla arenaria</i>	--	41.5	--	--	--	--	--	--
<i>Luzula spicata</i>	--	--	--	--	--	--	--	--
<i>Clematis recta</i>	--	35.1	--	--	--	--	--	--
<i>Potentilla alba</i>	--	42.8	--	--	--	--	--	--
<i>Carex michelii</i>	--	12.7	--	--	--	--	--	--
<i>Polygala sibirica</i>	--	11.8	--	--	--	--	--	--
<i>Polygonatum odoratum</i>	--	14.2	--	--	--	--	--	--
<i>Asplenium viride</i>	21.6	--	--	--	--	--	--	--
<i>Thalictrum flavum</i>	--	--	--	--	--	--	--	--
<i>Adonis vernalis</i>	--	42.0	--	--	--	--	--	--
<i>Veronica praecox</i>	--	10.2	--	--	--	--	--	--
<i>Peucedanum cervaria</i>	--	39.1	--	--	--	--	--	--
<i>Veronica jacquinii</i>	--	28.9	--	--	--	--	--	--
<i>Rosa species</i>	--	12.3	--	--	--	--	--	--
<i>Aster amellus</i>	--	29.9	--	--	--	--	--	--
<i>Alyssum calycinum</i>	--	--	--	--	--	--	--	--
<i>Centaurea diffusa</i>	--	12.3	--	--	--	--	--	--
<i>Thalictrum lucidum</i>	--	12.7	--	--	--	--	--	--

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Stipa tirsia</i>	--	10.2	--	--	--	--	--	--
<i>Reseda lutea</i>	--	13.2	--	--	--	--	--	--
<i>Trigonella monantha</i>	--	--	--	--	--	--	--	--
<i>Ajuga chia</i>	--	13.2	--	--	--	--	--	--
<i>Melica transsilvanica</i>	--	13.8	--	--	--	--	--	--
<i>Inula ensifolia</i>	--	39.1	--	--	--	--	--	--
<i>Orchis ustulata</i>	--	10.5	--	--	--	--	--	--
<i>Helictotrichon praeustum</i>	--	--	--	--	--	--	--	--
<i>Dianthus compactus</i>	23.7	--	--	--	11.2	--	--	--
<i>Phyteuma tetramerum</i>	--	--	--	--	16.9	--	--	--
<i>Dianthus speciosus</i>	32.1	--	--	--	--	--	--	--
<i>Atragene alpina</i>	1.9	--	33.0	--	--	--	--	--
<i>Rumex rugosus</i>	--	--	--	--	40.1	--	--	--
<i>Blysmus compressus</i>	--	--	--	--	--	--	--	--
<i>Pedicularis hacquetii</i>	--	--	--	--	--	--	--	--
<i>Knautia dipsacifolia</i>	--	13.2	--	--	--	--	--	--
<i>Galium uliginosum</i>	--	--	--	--	--	--	--	--
<i>Agrostis gigantea</i>	--	--	--	--	--	--	--	--
<i>Galium palustre</i>	--	--	--	--	8.7	--	--	--
<i>Equisetum fluviatile</i>	--	--	--	--	--	--	--	--
<i>Succisa pratensis</i>	--	--	--	--	11.8	--	--	--
<i>Primula poloninensis</i>	24.8	--	--	--	--	--	--	--
<i>Carex distans</i>	--	--	--	--	--	--	--	--
<i>Juncus inflexus</i>	--	--	--	--	7.2	--	--	--
<i>Agrostis stolonifera</i>	--	--	--	--	--	--	--	--
<i>Carex umbrosa</i>	--	--	--	--	--	--	--	--
<i>Veratrum lobelianum</i>	--	--	--	--	--	--	--	--
<i>Cirsium rivulare</i>	--	--	--	--	12.6	--	--	--
<i>Allium victorialis</i>	--	--	--	--	--	--	--	--
<i>Valeriana tripteris</i>	11.4	--	--	--	4.2	--	--	--
<i>Agrostis canina</i>	--	--	--	--	5.6	33.7	--	--
<i>Rumex acetosella</i>	--	--	--	--	11.3	--	--	--
<i>Pedicularis exaltata</i>	--	--	--	--	--	--	--	--
<i>Iris sibirica</i>	--	--	--	--	--	--	--	--
<i>Cirsium palustre</i>	--	--	--	--	--	--	--	--
<i>Juncus conglomeratus</i>	--	--	--	--	7.5	--	--	--
<i>Cortusa mathioli</i>	16.4	--	--	--	--	--	--	--
<i>Dactylorhiza majalis</i>	--	--	--	--	10.4	--	--	--
<i>Pinguicula alpina</i>	20.7	--	--	--	--	--	--	--
<i>Leucanthemum waldsteini</i>	9.8	--	--	--	18.5	--	--	--
<i>Epilobium palustre</i>	--	--	--	--	--	--	--	--
<i>Ligularia bucovinensis</i>	--	--	--	--	--	--	--	--
<i>Carex flacca</i>	--	--	--	--	--	--	--	--
<i>Festuca apennina</i>	--	--	--	--	--	--	--	--
<i>Carex capillaris</i>	--	--	--	--	--	--	--	--
<i>Salix purpurea</i>	--	--	--	--	--	--	--	--
<i>Salix pentandra</i>	--	--	--	--	--	--	--	--
<i>Campanula abietina</i>	--	--	--	--	17.8	28.0	--	--
<i>Poa palustris</i>	--	--	--	--	9.9	--	--	--
<i>Tephrosia papposa</i>	17.2	--	--	--	--	10.8	--	--
<i>Carex buxbaumii</i>	--	--	--	--	--	--	--	--
<i>Viola biflora</i>	6.7	--	34.9	--	--	--	--	--
<i>Carex vesicaria</i>	--	--	--	--	--	--	--	--
<i>Dactylorhiza incarnata</i>	--	--	--	--	--	--	--	--
<i>Salix silesiaca</i>	23.0	--	--	--	--	--	--	--
<i>Dryopteris filix-mas</i>	--	--	--	--	--	--	--	--
<i>Hieracium bupleurifolium</i>	--	--	--	--	15.1	--	--	--
<i>Pleurospermum austriacum</i>	--	--	--	--	--	--	--	--
<i>Tragopogon orientalis</i>	--	--	--	--	14.8	--	--	--
<i>Leontodon croceus</i>	--	--	--	--	--	--	--	--
<i>Scilla bifolia</i>	10.9	--	--	--	10.1	--	--	--
<i>Gentiana punctata</i>	--	--	--	--	19.5	--	--	--
<i>Geranium phaeum</i>	--	--	--	--	17.0	--	--	--
<i>Geranium pratense</i>	--	--	--	--	--	--	--	--
<i>Cardaminopsis halleri</i>	11.2	--	--	--	17.8	--	--	--
<i>Anemone sylvestris</i>	--	14.0	--	--	--	--	--	--
<i>Aquilegia nigricans</i>	15.2	--	--	--	--	--	--	--
<i>Carduus kernerii</i>	25.2	--	--	--	--	--	--	--
<i>Mercurialis perennis</i>	13.9	--	--	--	--	--	--	--
<i>Carex montana</i>	--	44.1	--	--	--	--	--	--
<i>Parmica lingulata</i>	--	--	--	--	--	--	--	--
<i>Duschekia abnobetula</i>	--	--	--	--	--	--	--	--
<i>Hieracium villosum</i>	33.6	--	--	--	--	--	--	--
<i>Aquilegia vulgaris</i>	--	--	--	--	--	--	--	--
<i>Hieracium cardiobasis</i>	15.6	--	--	--	--	--	--	--
<i>Epilobium alpestre</i>	--	--	--	--	--	--	--	--
<i>Stellaria media</i>	--	--	--	--	7.0	--	--	--

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Sambucus racemosa</i>	---	---	---	---	---	---	---	---
<i>Parmica vulgaris</i>	---	---	---	---	---	---	---	---
<i>Galium boreale</i>	---	30.5	---	---	---	---	---	---
<i>Traunsteineria globosa</i>	---	---	---	---	13.1	---	---	---
<i>Juncus compressus</i>	---	---	---	---	---	---	---	---
<i>Phyteuma vagneri</i>	---	---	---	---	---	5.5	---	---
<i>Eriophorum vaginatum</i>	---	---	---	---	---	---	---	---
<i>Bromus japonicus</i>	---	---	---	---	---	---	---	---
<i>Pyrethrum clusii</i>	25.0	---	---	---	---	19.6	---	---
<i>Aconitum degenii</i>	---	---	---	---	---	---	---	---
<i>Centaurea carpatica</i>	---	---	---	---	5.9	26.5	---	---
<i>Scabiosa columbaria</i>	---	---	---	---	---	---	---	---
<i>Allium scorodoprasum</i>	---	2.6	31.3	---	---	---	---	---
<i>Carex panicea</i>	---	---	---	---	---	---	---	---
<i>Helictotrichon planiculme</i>	---	---	---	---	---	16.9	---	---
<i>Myosotis nemorosa</i>	---	---	---	---	---	---	---	---
<i>Helictotrichon pubescens</i>	20.8	---	---	---	---	---	---	---
<i>Rhinanthus vernalis</i>	---	9.4	---	---	---	---	---	---
<i>Carex praecox</i>	---	7.2	29.4	---	---	---	---	---
<i>Salix cinerea</i>	---	---	---	---	---	---	---	---
<i>Heracleum carpaticum</i>	---	---	---	---	---	22.4	---	---
<i>Myosotis sylvatica</i>	---	---	---	---	---	---	---	---
<i>Ranunculus oreophilus</i>	29.7	---	---	---	---	---	---	---
<i>Spiraea chamaedrifolia</i>	13.5	---	---	---	---	---	---	---
<i>Carduus bicolorifolius</i>	---	---	---	---	---	---	---	---
<i>Soldanella hungarica</i>	4.3	---	---	---	---	21.4	5.1	---
<i>Saussurea discolor</i>	32.1	---	---	---	---	---	---	---
<i>Equisetum hyemale</i>	---	---	---	---	---	---	---	---
<i>Epipactis atrorubens</i>	37.5	---	---	---	---	---	---	---
<i>Epilobium montanum</i>	---	---	---	---	---	---	---	---
<i>Euphorbia carpatica</i>	---	---	---	---	---	---	---	---
<i>Ranunculus hornschurchii</i>	6.0	---	---	---	---	---	---	---
<i>Adoxa moschatellina</i>	---	---	---	---	---	---	---	---
<i>Pulmonaria filariczkyana</i>	---	---	---	---	---	---	---	---
<i>Euphrasia brevipila</i>	---	---	---	---	---	---	---	---
<i>Chrysaspis spadicea</i>	---	---	---	---	---	---	---	---
<i>Thalictrum minus</i>	---	41.2	---	---	---	---	---	---
<i>Rhododendron myrtifolium</i>	---	---	---	34.9	---	---	---	---
<i>Salix aurita</i>	---	---	---	---	---	---	---	---
<i>Bupleurum longifolium</i>	---	---	---	---	---	---	---	---
<i>Dianthus carpaticus</i>	15.6	---	---	---	---	---	---	---
<i>Angelica archangelica</i>	---	---	---	---	---	---	---	---
<i>Linaria genistifolia</i>	---	20.0	---	---	---	---	---	---
<i>Poa pratensis angustifolia</i>	---	21.7	---	---	---	---	---	---
<i>Botrychium multifidum</i>	---	---	---	---	---	---	---	---
<i>Oxybaphus nyctagineus</i>	---	---	---	---	---	---	---	---
<i>Setaria pumila</i>	---	---	---	---	---	---	---	---
<i>Xanthium albinum</i>	---	---	---	---	---	---	---	---
<i>Cirsium polonicum</i>	---	---	---	---	---	---	---	---
<i>Vinca minor</i>	---	---	---	---	---	---	---	---
<i>Festuca arundinacea</i>	---	---	---	---	---	---	---	---
<i>Galium humifusum</i>	---	22.9	---	---	---	---	---	---
<i>Alopecurus arundinaceus</i>	---	---	---	---	---	---	---	---
<i>Geranium pusillum</i>	---	---	---	---	---	---	---	---
<i>Erysimum pannonicum</i>	---	20.0	---	---	---	---	---	---
<i>Soldanella montana</i>	---	---	---	---	---	---	---	---
<i>Cephalanthera rubra</i>	---	---	---	---	---	---	---	---
<i>Silene dichotoma</i>	---	---	---	---	---	---	---	---
<i>Hypericum hirsutum</i>	---	---	---	---	---	---	---	---
<i>Orchis militaris</i>	---	---	---	---	---	---	---	---
<i>Epilobium parviflorum</i>	---	---	---	---	---	---	---	---
<i>Anchusa officinalis</i>	---	---	---	---	---	---	---	---
<i>Swida alba</i>	---	---	---	---	---	---	---	---
<i>Galium spurium</i>	---	---	---	---	---	---	---	---
<i>Chenopodium album</i>	---	---	---	---	---	---	---	---
<i>Macroselinum latifolium</i>	---	---	---	---	---	---	---	---
<i>Genistella sagittalis</i>	---	---	---	---	---	---	---	---
<i>Rosa rugosa</i>	---	---	---	---	---	---	---	---
<i>Hyacinthella leucophaea</i>	---	---	---	---	---	---	---	---
<i>Onopordum acanthium</i>	---	---	---	---	---	---	---	---
<i>Achillea stricta</i>	---	---	---	---	---	---	---	---
<i>Xanthoxalis stricta</i>	---	---	---	---	---	---	---	---
<i>Erodium cicutarium</i>	---	---	---	---	---	---	---	---
<i>Scutellaria galericulata</i>	---	---	---	---	---	---	---	---
<i>Potentilla obscura</i>	---	---	---	---	---	---	---	---
<i>Centaurea stricta</i>	---	22.9	---	---	---	---	---	---
<i>Rorippa brachycarpa</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Veronica beccabunga</i>	---	---	---	---	---	---	---	---
<i>Hieracium curvescens</i>	---	---	---	---	---	---	---	---
<i>Filago vulgaris</i>	---	---	---	---	---	---	---	---
<i>Orchis coriophora</i>	---	---	---	---	---	---	---	---
<i>Solidago canadensis</i>	---	---	---	---	---	---	---	---
<i>Primula acaulis</i>	---	---	---	---	---	---	---	---
<i>Symphytum species</i>	---	---	---	---	---	---	---	---
<i>Viola odorata</i>	---	---	---	---	---	---	---	---
<i>Nonea pulla</i>	---	20.9	---	---	---	---	---	---
<i>Iris pseudocyperus</i>	---	---	---	---	---	---	---	---
<i>Myosotis ramosissima</i>	---	---	---	---	---	---	---	---
<i>Bulbocodium versicolor</i>	---	---	---	---	---	---	---	---
<i>Lamium amplexicaule</i>	---	---	---	---	---	---	---	---
<i>Alchemilla alpestris</i>	---	---	---	---	---	---	---	---
<i>Veronica prostrata</i>	---	20.5	---	---	---	---	---	---
<i>Cephalaria uralensis</i>	---	18.7	---	---	---	---	---	---
<i>Crataegus praearmata</i>	---	---	---	---	---	---	---	---
<i>Helianthus species</i>	---	---	---	---	---	---	---	---
<i>Mentha arvensis</i>	---	---	---	---	---	---	---	---
<i>Cimicifuga europaea</i>	---	---	---	---	---	---	---	---
<i>Verbascum phoenicium</i>	---	20.5	---	---	---	---	---	---
<i>Delphinium elatum</i>	---	---	---	---	---	---	---	---
<i>Alyssum species</i>	---	---	---	---	---	---	---	---
<i>Poa versicolor</i>	---	21.7	---	---	---	---	---	---
<i>Verbascum lychnitis</i>	---	22.0	---	---	---	---	---	---
<i>Agrimonia procera</i>	---	---	---	---	---	---	---	---
<i>Sparganium erectum</i>	---	---	---	---	---	---	---	---
<i>Seseli hippomarathrum</i>	---	18.7	---	---	---	---	---	---
<i>Aconitum hosteanum</i>	25.0	---	---	---	---	---	---	---
<i>Adenophora lilifolia</i>	---	17.2	---	---	---	---	---	---
<i>Carex humilis</i>	---	16.5	---	---	---	---	---	---
<i>Typha angustifolia</i>	---	---	---	---	---	---	---	---
<i>Elaeagnus angustifolia</i>	---	---	---	---	---	---	---	---
<i>Vicia tenuifolia</i>	---	---	---	---	---	---	---	---
<i>Dianthus andrzejowskianus</i>	---	---	---	---	---	---	---	---
<i>Euonymus europaea</i>	---	---	---	---	---	---	---	---
<i>Narcissus angustifolius</i>	---	---	---	---	---	---	---	---
<i>Dorycnium herbaceum</i>	---	---	---	---	---	---	---	---
<i>Betula pubescens</i>	---	---	---	---	---	---	---	---
<i>Acinos arvensis</i>	---	16.7	---	---	---	---	---	---
<i>Ferulago sylvatica</i>	---	16.8	---	---	---	---	---	---
<i>Epipactis species</i>	---	---	---	---	---	---	---	---
<i>Lithospermum officinale</i>	---	---	---	---	---	---	---	---
<i>Lathyrus laevigatus</i>	14.2	---	---	---	---	---	---	---
<i>Silene species</i>	---	---	---	---	---	---	---	---
<i>Aster alpinus</i>	---	32.9	---	---	---	---	---	---
<i>Nepeta cataria</i>	---	14.6	---	---	---	---	---	---
<i>Jovibarba preissiana</i>	34.6	---	---	---	---	---	---	---
<i>Taraxacum serotinum</i>	---	---	---	---	---	---	---	---
<i>Vicia pseudorobus</i>	---	---	---	---	---	---	---	---
<i>Euphorbia angulata</i>	---	26.0	---	---	---	---	---	---
<i>Lamium album</i>	---	---	---	---	---	---	---	---
<i>Ranunculus malinovskii</i>	---	---	---	---	---	---	---	---
<i>Luzula alpino-pilosa</i>	---	---	---	---	---	---	---	---
<i>Silene zawadzki</i>	45.7	---	---	---	---	---	---	---
<i>Cirsium laniflorum</i>	---	---	---	---	---	---	---	---
<i>Pulsatilla patens</i>	---	25.8	---	---	---	---	---	---
<i>Thalictrum uncinatum</i>	---	---	---	---	---	---	---	---
<i>Poa rehmannii</i>	---	---	---	---	---	---	---	---
<i>Arctium tomentosum</i>	---	---	---	---	---	---	---	---
<i>Hieracium umbrosum</i>	---	---	---	---	---	---	---	---
<i>Pulsatilla grandis</i>	---	23.5	---	---	---	---	---	---
<i>Arenaria serpyllifolia</i>	---	23.4	---	---	---	---	---	---
<i>Senecio vernalis</i>	---	---	---	---	---	---	---	---
<i>Comarum palustre</i>	---	---	---	---	---	---	---	---
<i>Poa species</i>	---	---	---	---	---	---	---	---
<i>Senecio umbrosus</i>	---	17.8	---	---	---	---	---	---
<i>Phleum phleoides</i>	---	14.2	---	---	---	---	---	---
<i>Senecio vulgaris</i>	---	---	---	---	---	---	---	---
<i>Lycopus exaltatus</i>	---	---	---	---	---	---	---	---
<i>Clematis integrifolia</i>	---	15.4	---	---	---	---	---	---
<i>Iris graminea</i>	---	15.6	---	---	---	---	---	---
<i>Oenothera biennis</i>	---	---	---	---	---	---	---	---
<i>Anthericum liliago</i>	---	---	---	---	---	---	---	---
<i>Veronica incana</i>	---	15.0	---	---	---	---	---	---
<i>Arenaria uralensis</i>	---	---	---	---	---	---	---	---
<i>Chamaecytisus blockianus</i>	---	11.0	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Scorzonera purpurea</i>	---	20.6	---	---	---	---	---	---
<i>Pedicularis kaufmannii</i>	---	---	---	---	---	---	---	---
<i>Gypsophila thyratica</i>	---	16.7	---	---	---	---	---	---
<i>Vicia villosa</i>	---	---	---	---	---	---	---	---
<i>Euphorbia seguierana</i>	---	15.6	---	---	---	---	---	---
<i>Silene densiflora</i>	---	10.2	---	---	---	---	---	---
<i>Rosa rubiginosa</i>	---	11.0	---	---	---	---	---	---
<i>Cotoneaster integerrimus</i>	16.0	---	---	---	---	---	---	---
<i>Leontodon biscutellifolius</i>	---	---	---	---	---	---	---	---
<i>Galium odoratum</i>	---	---	---	---	---	---	---	---
<i>Potentilla heptaphylla</i>	---	---	---	---	---	---	---	---
<i>Veratrum nigrum</i>	---	28.3	---	---	---	---	---	---
<i>Galium octonarium</i>	---	25.8	---	---	---	---	---	---
<i>Valeriana collina</i>	---	23.9	---	---	---	---	---	---
<i>Sesleria heufleriana</i>	---	18.7	---	---	---	---	---	---
<i>Festuca pallens</i>	---	---	---	---	---	---	---	---
<i>Onobrychis arenaria</i>	---	12.5	---	---	---	---	---	---
<i>Padellus mahaleb</i>	---	---	---	---	---	---	---	---
<i>Tragopogon major</i>	---	12.7	---	---	---	---	---	---
<i>Sium species</i>	---	---	---	---	---	---	---	---
<i>Consolida regalis</i>	---	---	---	---	---	---	---	---
<i>Serratula coronata</i>	---	---	---	---	---	---	---	---
<i>Echinops ruthenicus</i>	---	13.2	---	---	---	---	---	---
<i>Bolboschoenus maritimus</i>	---	---	---	---	---	---	---	---
<i>Silene eugeniae</i>	---	17.7	---	---	---	---	---	---
<i>Lembotropis nigricans</i>	---	27.1	---	---	---	---	---	---
<i>Iris hungarica</i>	---	27.1	---	---	---	---	---	---
<i>Helichrysum arenarium</i>	---	12.5	---	---	---	---	---	---
<i>Rosa gallica</i>	---	10.2	---	---	---	---	---	---
<i>Paris quadrifolia</i>	---	---	---	---	---	---	---	---
<i>Nepeta panonica</i>	---	---	---	---	---	---	---	---
<i>Xanthoselinum alsaticum</i>	---	---	---	---	---	---	---	---
<i>Lotus arvensis</i>	---	---	---	---	---	---	---	---
<i>Peucedanum carvifolia</i>	---	9.6	---	---	---	---	---	---
<i>Vinca herbacea</i>	---	9.3	---	---	---	---	---	---
<i>Helianthus annuus</i>	---	---	---	---	---	---	---	---
<i>Viburnum lantana</i>	---	---	---	---	---	---	---	---
<i>Capsella bursa-pastoris</i>	---	---	---	---	---	---	---	---
<i>Thalictrum foetidum</i>	---	---	---	---	---	---	---	---
<i>Centaurea marschalliana</i>	---	11.8	---	---	---	---	---	---
<i>Empetrum hermaphroditum</i>	---	---	---	---	---	---	---	---
<i>Sedum acre</i>	---	16.2	---	---	---	---	---	---
<i>Sempervivum ruthenicum</i>	---	9.3	---	---	---	---	---	---
<i>Pulsatilla ucrainica</i>	---	---	---	---	---	---	---	---
<i>Crataegus species</i>	---	14.5	---	---	---	---	---	---
<i>Veronica longifolia</i>	---	---	---	---	---	---	---	---
<i>Melampyrum cristatum</i>	---	22.2	---	---	---	---	---	---
<i>Euphorbia esula</i>	---	29.3	---	---	---	---	---	---
<i>Lappula squarrosa</i>	---	15.0	---	---	---	---	---	---
<i>Seseli libanotis</i>	---	15.0	---	---	---	---	---	---
<i>Sedum sexangulare</i>	---	10.2	---	---	---	---	---	---
<i>Veronica orchidea</i>	---	---	---	---	---	---	---	---
<i>Cerasus fruticosa</i>	---	---	---	---	---	---	---	---
<i>Cotinus coggygria</i>	---	---	---	---	---	---	---	---
<i>Cerinth minor</i>	---	---	---	---	---	---	---	---
<i>Euphorbia klokovii</i>	---	23.9	---	---	---	---	---	---
<i>Linum austriacum</i>	---	---	---	---	---	---	---	---
<i>Phlomoidea tuberosa</i>	---	24.8	---	---	---	---	---	---
<i>Aconitum anthora</i>	---	---	---	---	---	---	---	---
<i>Carex elongata</i>	---	---	---	---	---	---	---	---
<i>Hieracium sparsum</i>	---	---	---	---	---	---	---	---
<i>Epilobium hirsutum</i>	---	---	---	---	---	---	---	---
<i>Anthriscus nitida</i>	---	---	---	---	---	---	---	---
<i>Larix decidua</i>	---	---	---	---	---	---	---	---
<i>Heracleum species</i>	---	---	---	---	---	---	---	---
<i>Rorippa austriaca</i>	---	---	---	---	---	---	---	---
<i>Trifolium fragiferum</i>	---	---	---	---	---	---	---	---
<i>Linum usitatissimum</i>	---	---	---	---	---	---	---	---
<i>Hieracium praealtum</i>	---	---	---	---	---	---	---	---
<i>Erysimum repandum</i>	---	---	---	---	---	---	---	---
<i>Artemisia nutans</i>	---	---	---	---	---	---	---	---
<i>Hieracium melaneilema</i>	---	---	---	---	---	---	---	---
<i>Scirpus lacustris</i>	---	---	---	---	---	---	---	---
<i>Lepidium campestre</i>	---	---	---	---	---	---	---	---
<i>Cirsium canum</i>	---	---	---	---	---	---	---	---
<i>Geranium palustre</i>	---	---	---	---	---	---	---	---
<i>Centunculus minimus</i>	---	---	---	---	---	---	---	---

Стовпчик	1	2	3	4	5	6	7	8
Кількість опусів	164	504	27	13	1701	116	95	26
<i>Pedicularis sylvatica</i>	---	---	---	---	---	---	---	---
<i>Vitis vinifera</i>	---	---	---	---	---	---	---	---
<i>Spergula arvensis</i>	---	---	---	---	---	---	---	---
<i>Polypodium vulgare</i>	---	---	---	---	---	---	---	---
<i>Allium oleraceum</i>	---	25.1	---	---	---	---	---	---
<i>Xanthium strumarium</i>	---	---	---	---	---	---	---	---
<i>Allium podolicum</i>	---	13.2	---	---	---	---	---	---
<i>Bromopsis benekenii</i>	---	---	---	---	---	---	---	---
<i>Trifolium hirtum</i>	---	---	---	---	---	---	---	---
<i>Caragana frutex</i>	---	---	---	---	---	---	---	---
<i>Allium waldsteinii</i>	---	15.6	---	---	---	---	---	---
<i>Torilis japonica</i>	---	---	---	---	---	---	---	---
<i>Aurinia saxatilis</i>	---	13.8	---	---	---	---	---	---
<i>Potentilla impolita</i>	---	---	---	---	---	---	---	---
<i>Ranunculus thora</i>	---	---	---	---	---	---	---	---
<i>Teucrium pannonicum</i>	---	24.8	---	---	---	---	---	---
<i>Veronica scutellata</i>	---	---	---	---	---	---	---	---
<i>Campanula rotundifolia</i>	---	---	---	---	---	---	---	---
<i>Sedum alpestre</i>	---	---	---	---	---	---	---	---
<i>Leopoldia comosa</i>	---	24.5	---	---	---	---	---	---
<i>Euphrasia species</i>	---	---	---	---	---	---	---	---
<i>Isatis tinctoria</i>	---	13.2	---	---	---	---	---	---
<i>Carex acuta</i>	---	---	---	---	---	---	---	---
<i>Anemonoides ranunculoides</i>	---	---	---	---	---	---	---	---
<i>Prunus spinosa</i>	---	---	---	---	---	---	---	---
<i>Lavatera thuringiaca</i>	---	11.8	---	---	---	---	---	---
<i>Cystopteris fragilis</i>	18.5	---	---	---	---	---	---	---
<i>Sideritis comosa</i>	---	11.0	---	---	---	---	---	---
<i>Cirsium species</i>	---	---	---	---	---	---	---	---
<i>Stellaria palustris</i>	---	---	---	---	---	---	---	---
<i>Alyssum turkestanicum</i>	---	9.3	---	---	---	---	---	---
<i>Fritillaria montana</i>	---	---	---	---	---	---	---	---
<i>Fragaria campestris</i>	---	---	---	---	---	---	---	---
<i>Veronica armena</i>	---	---	---	---	---	---	---	---
<i>Onosma visianii</i>	---	---	---	---	---	---	---	---
<i>Vicia pisiformis</i>	---	---	---	---	---	---	---	---
<i>Dentaria bulbifera</i>	---	---	---	---	---	---	---	---
<i>Vicia grandiflora</i>	---	---	---	---	---	---	---	---
<i>Typha latifolia</i>	---	---	---	---	---	---	---	---
<i>Veronica polita</i>	---	---	---	---	---	---	---	---
<i>Carex pallens</i>	---	---	---	---	---	---	---	---
<i>Acer negundo</i>	---	---	---	---	---	---	---	---
<i>Ranunculus illyricus</i>	---	---	---	---	---	---	---	---

На підставі проведеного аналізу отриманих синоптичних таблиць та літературних джерел (Zapałowicz, 1889; Rudolph, 1911; Kulczyński, Kozikowski, Wilczyński, 1926; Koczwara, 1931; Gajewski, 1932; Gusuleac, 1932, 1933; Kulczyński, 1933; Szafer, 1935; Pawłowski, 1936, 1937, 1947, 1948; Ильинский, 1945; Pawłowski, Walas, 1949; Попов, 1949; Березівська, 1952; Артемчук, 1953, 1954, 1956, 1959, 1960, 1965, 1966; Мусатов, 1954; Орехова, 1955; Березівська, 1955; Березовская, 1956, 1960; Пятаченко, 1956; Артемчук, Березовская, Погребняк, 1957; Малиновський, 1959; Афанасьев, 1960; Chrtek і Jirasek, 1964; Артемчук та ін, 1964, 1965; Артемчук, Барикіна, 1965; Скочеляс, 1965; Фодор, 1965; Шеляг-Сосонко, Байрова, 1965; Горбик, 1968, 1969; Якимчук, 1973; Артемчук, Якимчук 1974; Заєць, Солодкова, 1978; Горохова, Солодкова, 1978; Заєць, Солодкова, Стойко, 1980; Малиновський, 1980; Заєць, Стефаник, Солодкова, 1981; Куковиця Г. С., Шеляг-Сосонко, 1981; Солодкова та ін., 1986; Стефаник и др., 1987; Малиновський, Царик,

1994; Чорней, Смолінська, Королук, 1997; Чорней, Коржик, Скільський та ін., 2000; Малиновський, Крічфалушій, 2000; 2002; Чорней та ін., 2000, 2001, 2005; Чорней, Скільський, Буджак, 2001; Чорней, Буджак, Величко, 2004; Коротченко, Токарюк, 2004, 2005; Андрієнко та ін. 2005; Чорней та ін., 2005; Клімук та ін., 2006; Чорней, Буджак, Скільський, 2006; Чорней, Буджак, 2007; Чорней, Буджак, Андрієнко, 2008; Куземко, 2009; Тимчук, 2009; Токарюк, Коротченко, Буджак, 2009; Чорней, Буджак, Токарюк, 2009, 2015а, б; Созофіти ... , 2010; Токарюк, Волиця, 2010, 2011; Держипільський та ін., 2011; Чорней, Токарюк, Буджак, 2011, 2012а, б, в; Чорней, Буджак, 2012; Yakushenko, 2012; Iakushenko et al., 2012; Чорней, Буджак, 2012а, б, в, г, д; Tokaryuk et al., 2012, 2017; Kricsfalusy, 2013; Якушенко та ін., 2013; Буджак та ін., 2013, 2016; Roleček, Čornej, Tokarjuk, 2014; Chorney, Tokaryuk, Budzhak, 2015; Токарюк, Чорней, Буджак, 2015; Дідух та ін., 2016; Budzhak et al., 2016а, б; Zajac et al., 2016; Токарюк, Чорней, Буджак, 2017; Iakushenko et al., 2017а, б; Токарюк, Чорней, Буджак, 2018; Токарюк та ін., 2018; Дубина та ін., 2019;) сформовано синтаксономічну схему природної трав'яної рослинності верхніх басейнів Прута та Сірету, яку наводимо до рівня союзів, оскільки виділення одиниць нижчого рангу буде предметом наступних публікацій:

CARICI RUPESTRIS-KOBRESIETEA BELLARDII
ОНВА 1974

Oxytropido-Elynetalia Albrecht 1969

Oxytropido-Elynon myosuroidis Br.-Bl. 1950
Festucion versicoloris Krajina 1933

MULGEDIO-ACONITETEA HADAČ ET KLIKA IN
KLIKA ET HADAČ 1944

Adenostyletalia alliariae Br.-Bl. 1930

Adenostylon alliariae Br.-Bl. 1926 nom. conserv.
propos.

Calamagrostietalia villosae Pawłowski et al. 1928

Caricion ferrugineae G. Br.-Bl. et Br.-Bl. in G.
Br.-Bl. 1931

Calamagrostion arundinaceae (Luquet 1926)
Oberd. 1957

Calamagrostion villosae Pawłowski et al. 1928
Trisetion fuscii Krajina 1933

Petasito-Chaerophylletalia Morariu 1967

Petasition officinalis Sillinger 1933

Senecioni rupestris-Rumicetalia alpini Mucina et
Karner in Mucina et al. 2016

Rumicion alpini Scharfetter 1938

JUNCETEA TRIFIDI HADAČ IN KLIKA ET HADAČ
1944

Caricetalia curvulae Br.-Bl. in Br.-Bl. et Jenny 1926

Caricion curvulae Br.-Bl. 1925
Juncion trifidi Krajina 1933

Festucetalia spadiceae Barbero 1970

Nardion strictae Br.-Bl. 1926

Potentillo ternatae-Nardion Simon 1958

ELYNO-SESLERIETEA BR.-BL. 1948

Seslerietalia caeruleae Br.-Bl. in Br.-Bl. et Jenny 1926

Festuco saxatilis-Seslerion bielzii (Pawłowski et
Walas 1949) Coldea 1984

NARDETEA STRICTAE RIVAS GODAY ET BORJA
CARBONELL IN RIVAS GODAY ET MAYOR
LÓPEZ 1966 NOM. CONSERV. PROPOS.

Nardetalia strictae Preising 1950

Nardo-Agrostion tenuis Sillinger 1933
Violion caninae Schwickerath 1944

TRIFOLIO-GERANIETEA SANGUINEI T. MÜLLER 1962

Origanetalia vulgaris T. Müller 1962

Trifolion medii T. Müller 1962

Antherico ramosi-Geranietalia sanguinei Julve ex
Dengler in Dengler et al. 2003

Geranion sanguinei Tx. in T. Müller 1962

Melampyro-Holcetalia mollis Passarge in Theurillat
et al. 1995

Teucrium scorodoniae de Foucault et al. 1983

MOLINIO-ARRHENATHERETEA TX. 1937

Arrhenatheretalia elatioris R. Tx. 1931

Arrhenatherion elatioris Luquet 1926
Cynosurion cristati Tx. 1947

Galiotalia veri Mirkin et Naumova 1986

Agrostion vinealis Sipaylova et al. 1985

Moliniotalia caeruleae Koch 1926

Mentho longifoliae-Juncion inflexi T. Müller et
Görs ex de Foucault 2009

Molinion caeruleae Koch 1926

Deschampsion cespitosae Horvatić 1930

Calthion palustris Tx. 1937

Filipendulo ulmariae-Lotetalia uliginosi Passarge
1975

Filipendulion ulmariae Segal ex Westhoff et Den
Held 1969

Poo alpinae-Trisetetalia Ellmauer et Mucina 1993

Triseto flavescens-Polygonion bistortae Br.-Bl. et
Tx. ex Marschall 1947

FESTUCO-BROMETEA BR.-BL. ET TX. EX SOÓ 1947

Stipo pulcherrimae-Festucetalia pallentis Pop 1968
nom. conserv. propos.

Bromo pannonici-Festucion csikhegyensis
Zólyomi 1966 corr. Mucina in Di Pietro et al. 2015

Festucetalia valesiaca Soó 1947

Festucion valesiaca Klika 1931 nom. conserv.
propos.

Brachypodietalia pinnati Korneck 1974 nom.
conserv. propos.

Cirsio-Brachypodion pinnati Hadač et Klika in
Klika et Hadač 1944

FESTUCO-PUCCINELLIETEA SOÓ EX VICHEREK
1973

Puccinellietalia Soó 1947

Puccinellion limosae Soó 1947
Festucion pseudovinae Soó 1933

Таким чином уперше за результатами аналізу польових і літературних даних розроблено синтаксономічну схему трав'яної рослинності верхніх басейнів Прута та Сірету в межах України на основі еколого-флористичного методу Браун-Бланке, яка представлена 9 класами, 21 порядками, 33 союзами.

Подяка. Автор щиро вдячний за допомогу та цінні поради при систематизації первинних матеріалів та підготовці статті д.б.н., проф. І.І. Чорнею, к.б.н., А.І. Токарюк, к.б.н., Д.М. Якушенку.

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SYNTAXONOMIC SCHEME OF GRASSY VEGETATION OF THE UPPER PRUT AND SIRET RIVER BASINS

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This is the first time that ecological-floristic classification scheme of grassy vegetation of the upper Prut and Siret basins within Ukraine was set up based on the analysis of field research and literature resources. The foundations for syntaxonomic scheme of vegetation was database of geobotanical descriptions «Vegetation of Bukovina», which was created on the Department of botany, forestry, garden and park management in the shell of TURBOVEG. This database contains more than 5000 geobotanical descriptions made in accordance with standardized approach. There was used cluster analysis based on modified TWINSpan algorithm in JUICE shell for allocation of vegetation units.

*Syntaxonomic scheme of grassy vegetation of the researched area includes 9 classes, 21 orders, 33 alliances: **class** *Carici rupestris-Kobresietea bellardii* Ohba 1974 (**order** *Oxytropido-Elynetalia* Albrecht 1969 (**alliances** *Oxytropido-Elynetion myosuroidis* Br.-Bl. 1950, *Festucion versicoloris* Krajina 1933)); **class** *Mulgedio-Aconitetea* Hadač et Klika in Klika et Hadač 1944 (**order** *Adenostyletalia alliariae* Br.-Bl. 1930 (**alliance** *Adenostylinion alliariae* Br.-Bl. 1926 nom. conserv. propos.); **order** *Calamagrostietalia villosae* Pawłowski et al. 1928 (**alliances** *Caricion ferrugineae* G. Br.-Bl. et Br.-Bl. in G. Br.-Bl. 1931, *Calamagrostion arundinaceae* (Luquet 1926) Oberd. 1957, *Calamagrostion villosae* Pawłowski et al. 1928, *Trisetion fuscii* Krajina 1933); **order** *Petasito-Chaerophylletalia* Morariu 1967 (**alliance** *Petasition officinalis* Sillinger 1933); **order** *Senecioni rupestris-Rumicetalia alpini* Mucina et Karner ordo nov. hoc loco (**alliance** *Rumicion alpini* Scharfetter 1938)); **class** *Juncetea trifidi* Hadač in Klika et Hadač 1944 (**order** *Caricetalia curvulae* Br.-Bl. in Br.-Bl. et Jenny 1926 (**alliances** *Caricion curvulae* Br.-Bl. 1925; *Juncion trifidi* Krajina 1933),*

order *Festucetalia spadiceae* Barbero 1970 (**alliances** *Nardion strictae* Br.-Bl. 1926, *Potentillo ternatae*-*Nardion* Simon 1958); **class** *Elyno-Seslerietea* BR.-BL. 1948 (**order** *Seslerietalia caeruleae* Br.-Bl. in Br.-Bl. et Jenny 1926 (**alliance** *Festuco saxatilis*-*Seslerion bielzii* (Pawłowski et Walas 1949) Coldea 1984); **class** *Nardetea strictae* Rivas Goday et Borja Carbonell in Rivas Goday et Mayor López 1966 nom. conserv. **Propos.** (**order** *Nardetalia strictae* Preising 1950 (**alliances** *Nardo-Agrostion tenuis* Sillinger 1933; *Violion caninae* Schwickerath 1944)); **class** *Trifolio-Geranietea Sanguinei* T. Müller 1962 (**order** *Origanetalia vulgaris* T. Müller 1962 (**alliance** *Trifolion medii* T. Müller 1962), **order** *Antherico ramosi*-*Geranietalia sanguinei* Julve ex Dengler in Dengler et al. 2003 (**alliance** *Geranion Teucrium scorodoniae* de Foucault et al. 1983)); **class** *Molinio-Arrhenatheretea* TX. 1937 (**order** *Arrhenatheretalia elatioris* R. Tx. 1931 (**alliances** *Arrhenatherion elatioris* Luquet 1926; *Cynosurion cristati* Tx. 1947), **order** *Galietaalia veri* Mirkin et Naumova 1986 (**alliance** *Agrostion vinealis* Sipaylova et al. 1985), **order** *Molinetalia caeruleae* Koch 1926 (**alliances** *Mentho longifoliae*-*Juncion inflexi* T. Müller et Görs ex de Foucault 2009, *Molinion caeruleae* Koch 1926; *Deschampsion cespitosae* Horvatić 1930, *Calthion palustris* Tx. 1937), **order** *Filipendulo ulmariae*-*Lotetalia uliginosi* Passarge 1975 (**alliance** *Filipendulion ulmariae* Segal ex Westhoff et Den Held 1969), **order** (*Poo alpinae*-*Trisetetalia* Ellmauer et Mucina 1993 (**alliance** *Triseteto flavescens*-*Polygonion bistortae* Br.-Bl. et Tx. ex Marschall 1947)); **class** *Festuco-Brometea* BR.-BL. et Tx. ex Soó 1947 (**order** *Stipo pulcherrimae*-*Festucetalia pallentis* Pop 1968 nom. conserv. **propos.** (**alliance** *Bromo pannonici*-*Festucion csikhegyensis* Zólyomi 1966 corr. Mucina in Di Pietro et al. 2015), **order** *Festucetalia valesiaca* Soó 1947 (**alliance** *Festucion valesiaca* Klika 1931 nom. conserv. **propos.**), **order** *Brachypodietalia pinnati* Korneck 1974 nom. conserv. **propos.** (**alliance** *Cirsio-Brachypodion pinnati* Hadač et Klika in Klika et Hadač 1944)); **class** *Festuco-Puccinellietea* Soó ex Vicherek 1973 (**order** *Puccinellietalia* Soó 1947 (**alliances** *Puccinellion limosae* Soó 1947; *Festucion pseudovinae* Soó 1933).

Keywords: vegetation, classification scheme, union, the upper Prut and Siret basins

Отримано редколегією 04.12.2019