

THE POACEAE FAMILY FROM THE LOWER BASIN OF THE MOTRU RIVER

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Abstract. *The paper presents the 111 taxa from Poaceae Family, which were identified in the Lower Basin of the Motru River.*

Keywords: *Basin, Motru, flora, Poaceae.*

Rezumat. *Poaceele din Bazinului inferior al Motrului. Lucrarea prezintă 111 taxoni din familia Poaceae identificați în Bazinul inferior al râului Motru.*

Cuvinte cheie: *Bazin, Motru, flora, Poaceae.*

INTRODUCTION

From the geographical point of view, the Lower Basin of the Motru River lies in the western part of the Getic Piedmont, with the coordinates: 44° 55' north latitude and 23° 45' east longitudes. The studied area is 691 Km². From the administrative-territorial point of view, the territory under research is located at the borderline between the counties of Gorj and Mehedinți – the borderline starts in the eastern part of the Negoiești Hills (Comănești-Mehedinți, altitude 388 m) and reaches Valea Jiului near Gura Motrului (altitude 110 m). Being situated in the south-western part of the country and of the Getic Piedmont, the studied area has a Central-European climate with sub-Mediterranean influences.

In the territory under research, there have been made floristic and phytosociological studies between 1997 and 2005, within the PhD thesis (COSTACHE I., 2005).

MATERIALS AND METHODS

The first stage in the research of the Lower Basin of the Motru River was represented by looking into the bibliographic material. Against the background of this bibliographic information there were carried out, several times, personal studies in the field, in order to identify and inventories all the species, to watch all their vegetation stages, to notice the biotope characteristics, to take photos, to collect and preserve the species for a thorough checking in the laboratory, as well as to enrich the Herbarium of the University of Craiova. The collected and preserved material was determined by using specialty literature: Romanian Flora, Flora Europaea, The Illustrated Flora of Romania (BELDIE AL., 1977; CIOCÂRLAN V., 2000 etc.) and others. The critical taxa were checked by Prof Dr. Vasile Ciocârlan and compared to other materials found in the great herbariums of the country (Bucharest, Cluj and Craiova). The terminology of the taxa was adopted according to ROTHMALER W., 2002; we have taken into consideration the International Botanical Terminology Index (Code de Tokyo, 1993). For the synonymies, we have taken into account the index worked out by KERGUÉLEN M., 1993.

The species were defined within the following systematical units: Phylum, Subphylum, Class, Order, Family and Genus (here, the species are alphabetically presented).

The description of the species includes: scientific name, author (authors), equivalent names, life expectancy, biological form, ecology, territories for rare species (for frequently met species there is no indication of locality), geolement and coenotaxonomic belonging.

The coenotaxonomic belonging of the species, as well as their affiliation to high-leveled coenotaxonomic units, were made according to RODWELL & al. 2002 etc.

Abbreviations and conventional signs used in our paper:

Systematic units (taxa): Sp. - species; subsp.- underspecies; var. - variety.

Life expectancy: ☉ - yearly; e, - perennial.

Bioforms (biological forms, life forms): T. - terrophytes (annual plants which go over unfavorable conditions during winter or summer under the form of seeds); H. - hemicriptomphytes (perennial plants whose regeneration organs are located at the soil level and are protected, during winter, by vegetal remains or snow).

Frequency (spreading level): Freq. - frequent (numerous specimens with an odd spreading on large areas); Spor. - sporadic (few specimens spread in few stations); R. - rare (very few specimens spread in 1-2 stations).

Ecologic characterization: significance of the indexes U T R used in the paper in order to simplify the carrying out of the spectra when studying vegetation (according to POPESCU A. & SANDA V., 1998).

Soil humidity level (U₁₋₆): U₁ - xerophytes (they grow in dry soils and they can stand the prolonged dryness of the soil); U₂ - xeromesophyte; U₃ - mesophytes (in soils with average humidity, they cannot stand prolonged dryness); U₄ - mesohygrophyte; U₅ - hygrophyte (they grow in wet soils, and their roots are under water or in swampy areas); U₆ - hydrophyte (according to the author - ultrahydrophyte), (plants which grow in water, the regeneration organs are found under water); U₃₍₅₎ - alternately hygrophyte (with oscillations of the humidity level during the plants' vegetation period); U₁₋₅, (includes U₁₋₃, U₂₋₅ etc.) - eurip. = euriphyte (with large amplitude against the soil humidity).

Heat level (T): T₁ - hecistothermic; T₂ - microthermic; T₃ - mesothermic; T₄ - subthermophytes (moderately thermophytes); T₅ - thermophytes; T₁₋₅ (include T₁₋₄, T₂₋₄, T₂₋₅, T₃₋₅) - euriterm. = euriterms.

Acidity level (R): R₁ - high acidophilus species; R₂ - acidophilus; R₃ - acido-neutrophyle; R₄ - low acid-neutrophyle; R₅ - neutral-basophile; R₁₋₅ - (includes R₁₋₄, R₁₋₃, R₂₋₅ etc.) - eurionic.

Geoelement (phytogeographical elements, origin of the species): Adv.- adventive (species which appeared because of man's inconstant activity); Am. - America; As. - Asia; Atl.- Atlantic; Balc. - Balkan; Circ. - Circumpolar (spread in the northern part of Eurasia and North America); Cosm. - Cosmopolite (large spreading all over the world); Euras. - Eurasian; Euras. cont.- Eurasian continental; Eur. - European; Eur. centr. - Central European; Eur. cont. - European continental; Medit. - Mediterranean; Pont. - pontic (North of the Black Sea); Pan. - Panonic (In the Panonic Plain); Submedit. - SubMediterranean; Subatl. - Subatlantic.

Other abbreviations: E. - east; GJ. - Gorj; MH. - Mehedinți; N. - north; Sol.- soils; S. - south; V. - west.

RESULTS AND DISCUSSIONS

The conspectus of the flora in the Lower Basin of the Motru River includes about 1.120 vascular taxa (COSTACHE I., 2005), among which, Poaceae family have 111 taxa.

SPERMATOPHYTES

MAGNOLIOPHYTES (Angiosperms)

LILIOPSIDA (Monocotyledonata)

POALES (GRAMINAE)

Poaceae (Gramineae)

1. *Aégilops cylíndrica* HOST - ☉, T., Spor. U₂T₄R₃₋₄. Cont. euras. *Thero-Airion*, *Onopordion*, *Stellarietea mediae*, *Festucetalia valesiacae*.
2. *Agróstis canína* L. subsp. *canína* - e, H., Frecv. U₃₋₄T₃R₃. Euras. *Arrhenatheretalia*.
- var. *mútica* Gaud. - U₃T₃R₃₋₄ MH: Meriș, Broșteni, Strehaia (Ciochiuța).
- subsp. *stolonífera* BLYTT [subsp. *transsilvánica* (SCHUR) ASCH. & GRAEBN.] - Spor. U₄₋₅T₃R₃. MH: Comănești, Crainici, Câmpu Mare, Stroești, Florești, Zegujani.
3. *A. capilláris* L. [A. *ténuis* SIBITH.] - e, H., Frecv. (Negoești-Strehaia). U₃T₃R₃. Circ. *Arrhenatheretalia*.
4. *A. gigantéa* ROTH - e, H.(G.), Frecv. U₄₋₅T₃₋₅R₄. Euras. *Arrhenatheretalia*, *Phragmitetalia*, *Calthion palustris*.
5. *A. stolonífera* L. - e, H., Frecv. U₄₋₅T₃₋₅R₂₋₅. Circ. Car. *Molinio-Arrhenatheretea*, *Molinetalia*, *Potentillion anserinae*.
6. *Áira elegantíssima* SCHUR [Á. *capilláris* HOST, Á. *élegans* WILLD. ex. GAUDIN p. p.] var. *biaristáta* GREN. & GODR. [Á. *ambígua* G. DE NOTARIS non MICHX. & RICH.] - ☉, T., Spor. U₂T₄R₃₋₄. MH: Bala (Comănești, Pestița, Molani, Valea Mare, Crainici), Câmpu Mare; GJ: Negoești, Glogova - Motru. Centr. eur.-medit. *Thero-Airion*.
7. *Alopecúrus aequális* SOBOL. [A. *fúlvus* SM.] - ☉, ☉☉, T.-Ht., Frecv. U₄₋₅T₃R₅. Circ. Car. *Bidentetea tripartiti*, *Bidention tripartiti*, *Nanocyperion*, *Phragmition communis*.
8. *A. geniculátus* L. - ☉, ☉☉, e, T., Ht., H., Spor. U₄T₃₋₅R₃₋₄. GJ: Cătunele, Steic, Lupoia, Motru, Samarinești; MH: Meriș, Broșteni, Corcova, Comanda, Lunca Banului, Arginești, Gura Motrului. Cosm. Car. *Molinio-Arrhenatheretea*, *Molinetalia*, *Potentillion anserinae*, *Bidention tripartiti*, *Nanocyperion*.
9. *A. praténsis* L. subsp. *praténsis* - Coadă vulpii - e, H., Frecv. U₄T₃R₃₋₅. Euras. Car. *Molinio-Arrhenatheretea*, *Molinetalia*.
- subsp. *pseudonígricans* O. SCHWARZ [A. *nígricans* auct. non HORNEM., A. *praténsis* var. *obscúrus* (GRISEB.) ASCH. & GRAEBN.] - Frecv. U₂₋₃T₃R₄. *Festuco-Brometea*.
10. *Anthoxánthum odorátum* L. - e, H., Frecv. U₃T₁₋₄R₃₋₄. Euras. Car. *Molinio-Arrhenatheretea*.
11. *Apéra spíca-vénti* (L.) P. BEAUV. - Iarba vântului - ☉, T., Spor. (local frecv.). U₂₋₃₍₄₎T₂₋₅R₂₋₄. Euras. Car. *Stellarietea mediae*.
12. *Arrhenátherum elátius* (L.) P. BEAUV. ex. J. PRESL & C. PRESL - e, H., R., U₃T₃R₄. GJ: Steic, Valea Mânăstirii, Lupoia. Euras. Car. *Molinio-Arrhenatheretea*, *Arrhenatherion*, *Agropyretalia repentis*.
13. *Avéna fátua* L. - ☉, T., Frecv. U₂T₃₋₅R₃₋₄. Euras. Car. *Stellarietea mediae*, *Centaureetalia cyani*.
14. *Avénula compréssa* (HEUFF.) W. SAUER & CHMELITSCHK [Ávena *compréssa* HEUFF., *Helictotríchon compréssum* (HEUFF.) HENRARD] - e, H., Frecv. U₂₋₃T₄R₄. Pont.-pan.-balc. *Festuco-Brometea*.
15. *Brachypódium pinnátum* (L.) P. BEAUV. - e, H., Spor. (Negoești - Strehaia). U₂₋₃T₄R₄. Euras. (submedit.). Car. *Festuco-Brometea*, *Danthonion-Brachypodion*, *Geranion sanguinei*, *Cephalanthero-Fagion sylvaticae*, *Quercion frainetto*.
16. *B. sylváticum* (HUDS.) P. BEAUV. - e, H., Frecv. U₃₋₄T₃R₄. Euras. (submedit.). Car. *Quercio-Fagetea*.
17. *Bríza média* L. - e, H., Frecv. U₂₋₃₍₄₎T₃R₃. Euras. Car. *Festuco-Brometea*, *Arrhenatheretalia*.
18. *Brómus arvénsis* L. - ☉, ☉ de iarnă, T.-Ht., Frecv. U₂₋₃T₃R₃₋₄. Euras. (submedit.). Car. *Stellarietea mediae*, *Atriplici-Chenopodietalia albi*.

19. *B. benekénii* (LANGE) TRIMEN [*B. áasper* auct., *B. ramósus* subsp. *benekénii* (LANGE) LINDB., *Zérna benekénii* (LANGE) LINDMAN, *Bromópsis benekénii* (LANGE) HOLUB] - e, H, U₃₋₄T₃R₃. Euras. Car. *Quercu-Fagetea*, *Fagetalia sylvaticae*, *Carpinion betuli*, *Origanetalia vulgaris*.
20. *B. commutátus* SCHRAD. - ☉, ☉ de iarnă, T.-Ht., Frecv. U₂₋₄T₄R₂₋₅. Euras. (submedit.). *Festuco-Brometea*, *Arrhenatheretalia*.
- var. *apricórum* SIMONK. - Spor. MH: Comănești, Strehăia, Cerângani, Breznița, Butoiești, Buicești, Arginești; GJ: Glogova, Văgiulești.
21. *B. hordeáceus* L. [*B. mólilis* L.] - ☉, ☉ de iarnă, T.-Ht., Frecv. U₂₋₄T₄R₂₋₅. Euras. (submedit.). *Arrhenatherion*, *Sisymbriion officinalis*.
22. *B. inérmis* LEYSS. [*Zérna inérmis* (LEYSS.) LINDMAN, *Bromópsis inérmis* (LEYSS.) HOLUB] - Obsigă nearistată, Târsacă - e, H. Frecv. U₂₋₃T₄R₄. Euras. cont. Car. *Artemisietea vulgaris*, *Agropyretalia repentis*, *Festucetalia valesiacae*, *Sisymbriion officinalis*.
23. *B. japónicus* THUNB. [*B. pátilus* MERT. & W. D. J. KOCH] - ☉, ☉ de iarnă, T.-Ht., Frecv. U₂T₄R₄. Euras. cont. Car. *Stellarietea mediae*, *Caucalidion*, *Atriplici-Chenopodietalia albi*.
24. *B. ramósus* HUDS. [*B. áasper* MURRAY, *B. serótinus* BENEKEN, *Zérna ramósa* (HUDS.) LINDMAN, *Bromópsis ramósa* (HUDS.) HOLUB] - e, H., Frecv. U₃T₃R₄. Eur. centr. și de SV. *Fagetalia sylvaticae*, *Atropetalia*, *Prunetalia spinosae*.
25. *B. squarrósus* L. - ☉, ☉ de iarnă, T.-Ht. Frecv. U₁₋₂T₃R₄. Cont. euras. Car. *Stellarietea mediae*, *Dauco-Melilotion*.
- var. *megastáchys* (BORBÁS) GRECESCU [*B. megastáchys* BORBÁS];
- var. *villósus* (GMEL.) KOCH. [*B. villósus* K.C. GMEL.] - MH: Breznița, Butoiești, Buicești, Arginești.
26. *B. stérilis* L. - ☉, T., Frecv. N₃₋₄, U₂T₄R₄. Euras. (submedit.). Car. *Stellarietea mediae*, *Sisymbriion officinalis*.
- var. *lanuginósus* (ROHLENA) ASCH. & GRAEBN. [*B. stérilis* f. *lanuginósus* ROHLENA] - Frecv.
27. *B. tectórum* L. [*Anisántha tectórum* (L.) NEVSKI] - ☉, T., Frecv. U₁₋₂T₄₋₅R₄. Euras. cont. Car. *Stellarietea mediae*, *Sisymbriion officinalis*.
- var. *longipílus* (KUMM. & SENDTN.) BORBÁS [*B. longipílus* KUMM. & SENDTN.] - MH: Breznița, Butoiești, Buicești, Arginești;
- var. *rúbens* SCHUR - MH: Breznița, Butoiești, Buicești, Arginești, Gura Motrului.
28. *Calamagróstis epigéjos* (L.) ROTH - e, H.(G.), Frecv. U₁₋₅T₃R₁₋₅. Euras. Car. *Artemisietea vulgaris*, *Agropyretalia repentis*, *Salicion albae*, *Epilobion angustifolii*.
29. *C. pseudophragmites* (HALLER fil.) KOELER - e, H., MH: Lunca Banului (COSTACHE I., 2006), Euras. cont.
30. *Catabrósa aquática* (L.) P. BEAUV. [*Glyceria aquática* (L.) J. PRESL. & C. PRESL. non (L.) WAHLBENB.] - e, H., Frecv. U₄₋₅T₂₋₃R₄. Circ. *Glycerio-Sparganion*, *Bidention tripartiti*.
31. *Chrysopógon grýllus* (L.) TRIN. [*Andropógon grýllus* L.] - e, G., Spor. U₁₋₂T₄R₄. MH: Comănești, Câmpu Mare, Strehăia, Cerângani, Butoiești, Arginești, Gura Motrului; GJ: Glogova-Motru, Cătunele, Steic, Lupoaia, Motru, Samarinești. Submedit. Car. *Festuco-Brometea*, *Danthonio-Chrysopogonetalia*.
32. *Cleistogénes serótina* (L.) KENG [*Festúca serótina* L.] - e, G., Spor. U₁₋₂T₄R₄. MH: Cerângani, Butoiești, Arginești. Centr. eur.-medit. Car. *Festuco-Brometea*, *Festucion valesiacae*.
33. *Crýpsis alopecuroídes* (PILLER & MITTERP.) SCHRAD. [*Heleóchloa alopecuroídes* (PILLER & MITTERP.) HOST ex ROEM.] - ☉, T., Frecv. U₃₋₄T₄R₄₋₅. MH: Meriș, Corcova, Lunca Banului. Euras. Car. *Isoëto-Nanojuncetea*, *Nanocyperion*.
34. *Cýnodon dáctylon* (L.) PERS. - e, G., Frecv. U₂T₄R₄₋₅. Cosm. Car. *Stellarietea mediae*.
35. *Cynosúrus cristátus* L.- e, H., U₃T₃R₃. Eur. Car. *Molinio-Arrhenatheretea*, *Cynosurion cristati*.
36. *C. echinátus* L. - ☉, T., Frecv. U₂T₄R₄. GJ: Glogova (MORARIU I., 1972). Medit. *Chelidonio-Robinietalia*, *Sisymbriion officinalis*.
37. *Dáctylis glomeráta* L. - e, H., Frecv. U₂₋₃T₂₋₅R₄. MH: Arginești-Gura Motrului (BUIA AL. & al. 1961). Euras. Car. *Molinio-Arrhenatheretea*, *Arrhenatheretalia*, *Atropetalia*, *Alno-Ulmion*.
38. *D. polýgama* HORV. [*D. aschaersoniána* GRAEBN.] - e, H., Spor. U₃T₃R₃. MH: Bala, Câmpu Mare, Stroești, Broșteni, Corcova, Pârvulești, Breța, Vlădășești, Strehăia, Cerângani, Butoiești, Buicești; GJ: Negoești, Glogova, Samarinești, Văgiulești. Centr. eur. Car. *Quercu-Fagetea*, *Fagetalia sylvaticae*, *Carpinion betuli*.
39. *Danthónia alpína* VEST [*D. calýcina* (VILL.) RCHB. non (LAM.) ROEM. & SCHULT. nom. confus.; *D. provinciális* DC. nom. illeg.] - e, H., Frecv. U₂₋₃T₄R₃₋₄. MH: Bala, Câmpu Mare, Stroești, Broșteni, Corcova, Pârvulești, Breța, Vlădășești, Strehăia, Cerângani, Butoiești, Buicești; GJ: Negoești, Glogovei, Samarinești, Văgiulești. Centr. eur.-medit. Car. *Festuco-Brometea*, *Danthonio-Brachypodion*.
40. *D. decúmbens* (L.) DC. [*Sieglíngia decúmbens* (L.) BERNH.] - e, H., Spor. U₃T₃R₂₋₃. Eur. *Danthonio-Brachypodion*.
41. *Dasypýrum villósum* (L.) P. CANDARGY [*Haynaldia villósa* (L.) SCHUR] - ☉, T., Frecv. U₂T₄R₄₋₅. Medit. *Thero-Airion*, *Festuco-Brometea*.
42. *Dichánthium ischémum* (L.) ROBERTY [*Andropógon ischémum* L., *Bothrióchloa ischémum* (L.) KENG] - Bărboasă - e, H., Frecv. U₁₋₂T₄R₃. Euras. (submedit.). *Festuco-Brometea*.
43. *Digitária sanguinális* (L.) SCOP [*Panicum sanguinále* L.] - ☉, T., Frecv. U₂₋₃T₃₋₅R₄. Cosm. Car. *Stellarietea mediae*.

44. *Echinóchloa crus-gállii* (L.) P. BEAUV. - ☉, T., Frecv. U₃₋₄₍₅₎T₃₋₅R₄₋₅. Cosm. Car. *Oryzetea sativae*, *Stellarietea mediae*, *Atriplici-Chenopodietalia albi*, *Bidention tripartiti*.
45. *Élymus hispidus* (OPIZ) MELDERIS [*Triticum intermedium* HOST, *Agropyron intermedium* (HOST) P. BEAUV., *Elytrigia intermedia* (HOST) NEVSKI] - e, G., Frecv. U₂T₄R₄. Cont. euras. Car. *Artemisietea vulgaris*, *Festucetalia valesiacae*.
46. *É. repéns* (L.) GOULD [*Triticum repéns* L., *Agropyron repéns* (L.) P. BEAUV., *Elytrigia repéns* (L.) DESV. ex NEVSKI] - Pir târâtor - e, G., Frecv. U₂₋₃₍₄₎T₄R₄₋₅. Circ. Car. *Artemisietea vulgaris*, *Molinio-Arrhenatheretea*, *Potentillion anserinae*.
47. *Eragrostis minor* HOST [*E. poaeoides* P. BEAUV.] - ☉, T., Frecv. U₂T₄R₃₋₄. Centr. eur.-medit. Car. *Stellarietea mediae*, *Eragrostion*.
48. *E. pilósa* (L.) P. BEAUV. - ☉, T., Spor. U₂T₄R₃₋₄. Centr. eur.-medit. Car. *Stellarietea mediae*.
49. *Festúca arundinácea* SCHREB. subsp. *orientális* (HACK.) TZVELEV (*F. orientális* KREZ. et BOROV, *F. elátior* L. subsp. *orientális* HACK.) - e, H., Spor. U₄T₂R₄. MH: Buicești (Pluta), Ciochiuța-Strehaia (BUIA AL. & al., 1961). Eur. centr. and SE. *Molinietalia*, *Agrostion*, *Agropyro-Rumicion*, *Puccinellietalia*.
50. *F. drymėja* MERT. & KOCH [*F. montana* M. BIEB.] - e, H., Spor. U₃T₂R₃. MH: Bala, Câmpu Mare, Stroești, Broșteni, Corcova, Pârvulești, Breța, Vlădășești, Strehaia, Cerângani, Butoiești, Buicești, Arginești, Gura Motrului; GJ: Negoiești, Glogova, Samarinești, Văgiulești. Eur. centr. și SE. Car. *Quercu-Fagetea*, *Aremonio-Fagion*.
51. *F. gigantéa* (L.) VILL. - e, H., Frecv. U₄T₃R₃₋₄. Euras. Car. *Quercu-Fagetea*, *Fagetalia sylvaticae*, *Alno-Ulmion*.
52. *F. heterophýlla* LAM. - e, H., Frecv. U₂₋₃T₃R₄. Centr. eur.-submedit. Car. *Quercu-Fagetea*, *Carpinion betuli*, *Quercion petraeae*.
53. *F. praténsis* HUDS. - e, H., Frecv. U₃₋₄T₂R₃₋₅. Euras. Car. *Molinio-Arrhenatheretea*.
54. *F. pseudodalmática* KRAJINA ex DOMIN - e, H., Spor. U₂T₄R₄. MH: Bala (COSTACHE I., 2004), Câmpu Mare; GJ: Negoiești, Glogova. Eur. centr. și de E. Car. *Festuco-Brometea*, *Quercion petraeae*.
55. *F. púlchra* SCHUR [*F. pseudovína* HACK. ex WIESB., *F. valesiaca* subsp. *parviflora* (HACK.) TRACEY] - e, H., Spor. U₂T₄R₃₋₄. Cont. euras. *Festucetalia valesiacae*.
56. *F. rúbra* L. subsp. *rúbra* [*F. rúbra* subsp. *genuína* HACK.] - Păiuș roșu - e, H., Spor. U₃₋₄T₃₋₄R₃. MH: Bala, GJ: Negoiești, Glogova (Cămuiești). Circ. Car. *Molinio-Arrhenatheretea*, *Cynosurion cristati*.
- subsp. *júncea* (HACK.) K. RICHT. - Spor. U₃T₄R₄. GJ: Valea Perilor, Steic, Cătunele, Motru. *Festucetalia valesiacae*, *Cynosurion cristati*.
57. *F. rupícola* HEUFF. [*F. sulcáta* (HACK.) NYMAN, *F. hirsúta* HOST, *F. valesiaca* subsp. *sulcáta* (HACK.) SCHINZ & KELLER] - e, H., Frecv. U₂T₄R₄. Cont. euras. Car. *Festuco-Brometea*, *Festucion valesiacae*.
58. *F. valesiaca* SCHLEICH. ex GAUDIN - e, H., Frecv. U₁₋₂T₄R₄. Euras. cont. Car. *Festuco-Brometea*, *Festucion valesiacae*.
59. *Glycéria flúitans* (L.) R. BR. - e, H.(HH.), Frecv. U₅T₃R₀. MH: Arginești-Gura Motrului (BUIA AL. & al., 1961). Euras. Car. *Phragmitetea australis*, *Glycerio-Sparganion*, *Phragmition communis*, *Calthion palustris*.
60. *G. máxima* (HARTM.) HOLMB. [*G. aquática* (L.) WAHLBENB. non (L.) J. PRESL. & C. PRESL.] - e, H.(HH.), Frecv. U₅T₃R₄. MH: Arginești-Gura Motrului (BUIA AL. & al., 1961). Circ. Car. *Phragmitetea australis*, *Phragmitetalia*.
61. *G. notáta* CHEVALL. [*G. plicáta* (FR.) FR.] - e, H.(HH.), Frecv. U₅₋₆T₃R₄₋₅. MH: Arginești-Gura Motrului (BUIA AL. & al., 1961). Circ. Car. *Glycerio-Sparganion*, *Bidention tripartiti*.
62. *Hólcus lanátus* L. - e, H., Frecv. U₃₋₄T₃R₂₋₅. Cosm. Car. *Molinio-Arrhenatheretea*.
63. *Hordélymus europaéus* (L.) JESS. ex HARZ [*Cuviéra europaéa* (L.) KOELER, *Élymus europaéus* L.] - e, H., Spor. U₃₋₄T₃R₃. MH: Bala, Câmpu Mare, Strehaia, Cerângani; GJ: Negoiești, Glogova. Eur. centr. Car. *Quercu-Fagetea*, *Carpinion betuli*.
64. *Hórdeum marínium* HUDS. [*H. marítimum* WITH., *H. rígídum* ROTH.] subsp. *gussoneánium* (PARL.) THELL. [*H. hýstrix* ROTH., *H. geniculátum* ALL. nom. ambig., *H. geniculátum* M. BIEB., *H. marítimum* STOKES subsp. *gussoniánium* (PARL.) ASCH. & GRAEBN., *H. winkleri* HACK., *H. secálinum* BAUMG.] - ☉, T., R. U₂T₄R₄₋₅. MH: Corcova (COSTACHE I., 2006), Pluta. Cont. euras. Car. *Puccinellion limosae*.
65. *H. murínium* L. - ☉, T., Frecv. U₂₋₃T₄R₄. Euras. *Sisymbriion officinalis*.
66. *Leérsia oryzoídes* (L.) SW. [*Phaláris oryzoídes* L., *Oryza clandestína* (WEBER) A. BRAUN] - e, G.(HH.), Spor. U₆T₃R₄₋₅. MH: Meriș, Comanda, Lunca Banului, Arginești, Gura Motrului; GJ: Steic, Lupoiaia, Motru. Circ. Car. *Phragmitetea australis*, *Glycerio-Sparganion*.
67. *Lólium multiflórum* LAM. [*L. itálicum* A. BRAUN] - ☉, ☉☉, e, T.-H., Spor. U₄T₃R₄. Medit. Car. *Molinio-Arrhenatheretea*, *Arction lappae*, *Sisymbriion officinalis*.
68. *L. perénne* L. - e, H., Frecv. U₃T₃R₂₋₅. Cosm. Car. *Molinio-Arrhenatheretea*, *Cynosurion cristati*.
69. *Mélica nútans* L. - e, H. (G.). Spor. U₃T₃₋₅R₄. MH: Lunca Banului, Buicești, Arginești-Gura Motrului. Euras. Car. *Quercu-Fagetea*.
70. *M. transsilvánica* SCHUR [*M. ciliáta* subsp. *transsilvánica* (SCHUR) HUDS.] - e, H., Spor. U₂T₄R₄. MH: Breznița, Butoiești, Arginești. Submedit. Car. *Artemisietea vulgaris*, *Convolvulo arvensisi-Agropyron repentis*, *Festucetalia valesiacae*, *Geranion sanguinei*, *Gallio-Alliarion*.

71. *M. uniflora* RETZ. - e, H., Frecv. U₃T₄R₄. MH: Arginești-Gura Motrului (BUIA AL. & al. 1961). B.S.M. Centr. eur.-submedit. Car. *Quercu-Fagetea*, *Fagetalia sylvaticae*, *Carpinion betuli*.
72. *Milium effusum* L. - e, H, Frecv. U₃T₃R₃. Circ. *Fagetalia sylvaticae*, *Carpinion betuli*.
73. *Panicum capillare* L. - ☉, T., Spor. Subspontaneous. Am de N. *Atriplici-Chenopodietalia albi*.
74. *P. dichotomiflorum* MICHX. - ☉, T., R. U₁₋₄T₃₋₅R₂₋₅. MH: Arginești. Adv. (Am de N.). *Panico-Setarion*.
75. *Phalaris arundinacea* L. [*Typhoides arundinacea* (L.) MOENCH] - e, HH., Frecv. U₅₋₆T₃R₄₋₅. MH: Arginești-Gura Motrului (BUIA AL. & al. 1961). Circ. Car. *Phragmitetea australis*, *Phalaridion arundinaceae*.
76. *Phleum paniculatum* HUDS. [*Ph. asperum* JACQ.] - ☉, T., Spor. U₁₋₂T₄R₄. MH: Ciocuiuța, Strehaia, Stângăceaua, Breznița, Butoiești, Buicești. Centr. eur.-medit. *Festucetalia valesiacae*, *Stellarietea mediae*, *Atriplici-Chenopodietalia albi*.
77. *Ph. phleoides* (L.) H. KARST. [*Ph. boéhmeri* WIB.] - e, H., Frecv. U₁₋₂T₃R₄. Euras. cont. Car. *Festuco-Brometea*.
78. *Ph. pratense* L. - e, H., Spor. U₃T₂₋₅R₃₋₄. MH: Comănești, Crainici, Broșteni; GJ: Glogova. Euras. Car. *Molinio-Arrhenatheretea*, *Cynosurion cristati*.
79. *Phragmites australis* (CAV.) STEUD. [*Ph. communis* TRIN.] subsp. *chrysantha* (MABILLE) SOJÁK [subsp. *altissimus* (BENTH.) W.D. CLAYTON] - e, G.(HH.). Frecv. U₆T₂₋₅R₄. Euras., Afr. Car. *Phragmitetea australis*, *Phragmition communis*.
80. *Poa angustifolia* L. [*P. pratensis* L. subsp. *angustifolia* (L.) GAUDIN] - e, H., Frecv. U₂₋₃T₃R₃₋₅. Euras. Car. *Festuco-Brometea*, *Agropyretalia repentis*.
81. *P. annua* L. - ☉- e, T.-H. Frecv. U₃₋₄T₁₋₅R₁₋₅. Cosm. Car. *Polygono arenastri-Poëtea annuae*, *Matricario-Polygonion avicularis*.
82. *P. bulbosa* L. - e, H. Frecv. U₂T₄R₄. Euras. *Sedo-Schleranthea*, *Thero-Airion*, *Festucetalia valesiacae*.
- var. *vivipara* KOEL. - Frecv.
83. *P. compressa* L. - e, H. Frecv. U₂T₃R₂₋₅. Euras.-cont. Car. *Artemisietea vulgaris*, *Koelerio-Coryneporetea*, *Sedo-Schleranthea*, *Agropyretalia repentis*, *Sisymbrium officinalis*, *Atriplici-Chenopodietalia albi*.
84. *P. nemoralis* L. - e, H. Frecv. U₃T₃R₃₋₄. Circ. Car. *Quercu-Fagetea*, *Atropion*, *Trifolion medii*.
85. *P. palustris* L. [*P. serotina* EHRH., *P. fertilis* HOST] - e, H. Frecv. U₄₋₅T₄R₃₋₄. B.S.M. Circ. Car. *Molinio-Arrhenatheretea*, *Phragmitetea australis*, *Calthion palustris*.
86. *P. pratensis* L. - e, H. Frecv. U₃₋₄T₂₋₅R₃₋₅. Circ. (astăzi Cosm.). Car. *Molinio-Arrhenatheretea*.
87. *P. sylvicola* GUSS. [*P. trivialis* L. subsp. *sylvicola* (GUSS.) H. LINDB.] - e, H. Frecv. U₄T₄R₄. MH: Strehaia (GHIȘA & BELDIE, 1972). Submedit. *Molinietalia*.
88. *P. trivialis* L. - e, H. Frecv. U₄T₂₋₅R₃₋₅. Euras. Car. *Molinio-Arrhenatheretea*, *Calthion palustris*.
89. *Puccinellia convoluta* (HORNEM.) HAYEK subsp. *pseudobulbosa* (E. I. NYÁRÁDY) BORZA [*P. fominii* BILYK] - e, H. R., U₄T₄R₅. MH: Arginești-Gura Motrului. Pont. Car. *Puccinellio-Salicornietea*, *Puccinellietalia*.
90. *P. limosa* (SCHUR) HOLMB. [*P. distans* (L.) PARL. subsp. *limosa* (SCHUR) JÁV.] - e, H. R., U₃₋₄T₃₋₅R₅. MH: Broșteni, Comanda. Pont.-pan. Car. *Puccinellio-Salicornietea*, *Puccinellietalia*.
91. *Scleróchloa dura* (L.) P. BEAUV. [*Poa dura* (L.) SCOP.] - ☉, T., Frecv. U₂T₃R₃. Medit. Car. *Polygono arenastri-Poëtea annuae*, *Matricario-Polygonion avicularis*.
92. *Setaria pumila* (POIR.) ROEM. & SCHULT. [*S. glauca* auct. non (L.) P. BEAUV., *S. lutescens* (STUNTZ) F. T. HUBB.] - ☉, T., Frecv. U₃₋₄T₄R₃₋₅. Cosm. *Panico-Setarion*.
93. *S. viridis* (L.) P. BEAUV. [*Panicum viride* L., *S. italica* subsp. *viridis* (L.) THELL.] - ☉, T. Frecv. U₂₋₃T₃₋₄R₄₋₅. Euras. (astăzi Cosm). *Panico-Setarion*.
94. *Sorghum halepense* (L.) PERS. - e, G., Frecv. U₃₋₄T₅R₂₋₅. Medit. *Chenopodietalia*, *Centaureetalia cyani*, *Panico-Setarion*.
95. *Taeniatherum caput-medusae* (L.) NEVSKI [*Hordélymus asper* (SIMONK.) BELDIE] - ☉, T. Spor. U₂T₄R₄₋₅. MH: Strehaia, Breznița, Butoiești, Arginești, Gura Motrului. Pont.-medit. *Thero-Airion*, *Onopordion*.
96. *Tragus racemosus* (L.) ALL. - ☉, T. Spor. U₁₋₂T₄₋₅R₄. MH: Jirov, Strehaia, Stângăceaua, Breznița, Butoiești. Medit. Car. *Stellarietea mediae*, *Bromion tectorum*, *Eragrostetalia*.
97. *Trisetum flavescens* (L.) P. BEAUV. [*Avéna flavescens* L.] - e, H. Spor. U₃T₂₋₃R₃₋₄. GJ: Glogova Euras. (submedit.). Car. *Molinio-Arrhenatheretea*, *Polygono-Trisetion*, *Arrhenatherion*.
98. *Ventenata dubia* (LEERS) COSS. [*Avéna dubia* LEERS, *Avéna tenuis* MOENCH] - ☉, T. Frecv. U₂T₃₋₄R₃. Pont.-medit. *Thero-Airion*.
99. *Vulpia bromoides* (L.) S.F. GRAY [*Festuca bromoides* L., *Festuca dertronensis* (ALL.) ASCH. & GRAEBN.] - ☉, T. R., U₂T₅R₄. GJ: Glogova. Pont.-medit. *Thero-Airion*.
100. *V. myuros* (L.) C. C. GMEL. - ☉, ☉ de iarnă, T., Ht. Frecv. U₂T₄R₃. Euras. (Cosm.). *Thero-Airion*.

CONCLUSIONS

In the Lower Basin of the Motru River have been identified 111 taxa on the Poaceae family (100 species, 3 subspecies and 8 varieties). *Hórdeum marínium* HUDS. subsp. *gussoneánum* (PARL.) THELL., *Panicum dichotomiflorum* MICHX., *Puccinellia convoluta* (HORNEM.) HAYEK subsp. *pseudobulbosa* (E. I. NYÁRÁDY) BORZA, *Puccinellia limosa* (SCHUR) HOLMB., *Vulpia bromoides* (L.) S.F. GRAY, they are rare in the Lower Basin of the Motru.

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