



Scientific name	<i>Carex rostrata</i> – <i>Menyanthes trifoliata</i> mire
Common name	Bottle Sedge – Bogbean mire
Community code	FE2D

Vegetation

Carex rostrata is the principal species of this mire community with the only other constants being *Equisetum fluviatile* and *Menyanthes trifoliata*. There is frequently some growth of *Agrostis stolonifera* and the forbs *Mentha aquatica*, *Galium palustre* and *Potentilla palustris*. Less often, one may discover some *Hydrocotyle vulgaris*, *Ranunculus flammula* or *Juncus articulatus*. Bryophyte cover is only occasional and rather uninspiring, being chiefly composed of *Calliergonella cuspidata*.

Ecology

This is a wetland community of nutrient-poor, slightly acidic situations, typically occurring as part of lowland fens and bogs, or along lake margins.

Sub-communities

No sub-communities are currently described.

Similar communities

Carex rostrata also dominates in the FW3C *Carex rostrata* swamp/fen, but that is a far less diverse community in which *Menyanthes trifoliata*, *Mentha aquatica* and *Potentilla palustris* are scarce. *Carex rostrata* may also occur in the FE2E *Menyanthes trifoliata* – *Sphagnum recurvum* agg. mire, but that differs clearly in the abundant cover of *Sphagnum*.

Records and distribution

Number of records (all)

Clearly assigned:	83
Transitional:	25
Total:	108

Number of records (mapped)

2001-2015:	30
1986-2000:	51
1971-1985:	25
Pre-1971:	1
Total:	109

Number of hectads (most recent records)

2001-2015:	18
1986-2000:	23
1971-1985:	0
Pre-1971:	1
Total:	51

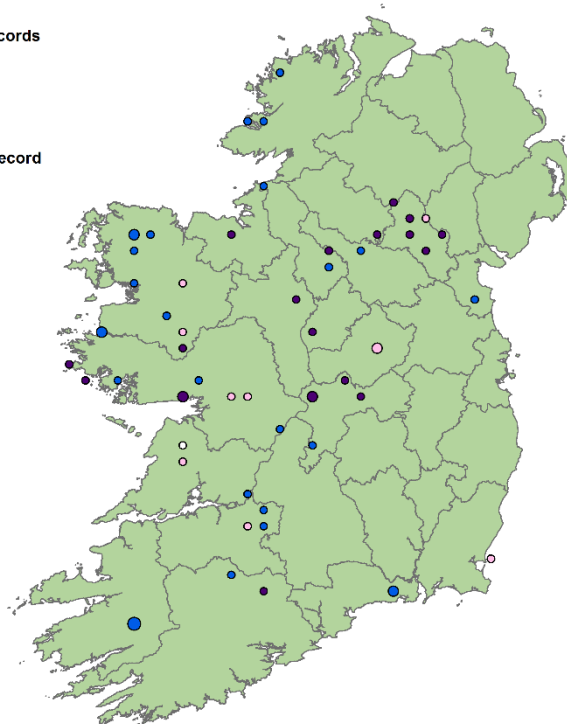
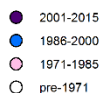
Number of hectads (all mapped records)

2001-2015:	18
1986-2000:	24
1971-1985:	14
Pre-1971:	1

Number of records



Most recent record



Synoptic table (n = 70)

Species	Frequency (from I-V)	Cover min (med) max	Species	Frequency (from I-V)	Cover min (med) max
<i>Carex rostrata</i>	V	4-(7)-9	<i>Lotus pedunculatus</i>	I	2-(5)-8
<i>Equisetum fluviatile</i>	V	2-(5)-9	<i>Typha latifolia</i>	I	2-(3)-6
<i>Menyanthes trifoliata</i>	IV	2-(5)-9	<i>Angelica sylvestris</i>	I	2-(3)-4
<i>Mentha aquatica</i>	III	1-(3)-7	<i>Filipendula ulmaria</i>	I	2-(3)-8
<i>Galium palustre</i>	III	1-(3)-7	<i>Calliergon giganteum</i>	I	2-(3)-7
<i>Potentilla palustris</i>	III	2-(5)-9	<i>Hypericum elodes</i>	I	2-(5)-8
<i>Agrostis stolonifera</i>	III	1-(3)-8	<i>Eleocharis palustris</i>	I	+-(4)-5
<i>Cardamine pratensis</i>	II	+-(3)-5	<i>Juncus acutiflorus</i>	I	1-(4)-5
<i>Hydrocotyle vulgaris</i>	II	2-(3)-8	<i>Sparganium erectum</i>	I	2-(5)-7
<i>Calliergonella cuspidata</i>	II	1-(5)-9	<i>Molinia caerulea</i>	I	2-(2)-5
<i>Ranunculus flammula</i>	II	2-(3)-5	<i>Veronica scutellata</i>	I	+-(2)-2
<i>Juncus articulatus</i>	II	1-(4)-8	<i>Lemna trisulca</i>	I	2-(3)-6
<i>Caltha palustris</i>	II	1-(3)-5	<i>Potamogeton polygonifolius</i>	I	2-(3)-3
<i>Epilobium palustre</i>	II	2-(2)-5	<i>Aulacomnium palustre</i>	I	2-(4)-7
<i>Eriophorum angustifolium</i>	II	2-(3)-5	<i>Carex panicea</i>	I	2-(3)-5
<i>Lemna minor</i>	I	1-(3)-8	<i>Anthoxanthum odoratum</i>	I	2-(4)-5
<i>Carex nigra</i>	I	2-(3)-5	<i>Myosotis laxa</i>	I	1-(2)-5
<i>Phragmites australis</i>	I	2-(3)-8	<i>Salix cinerea</i>	I	2-(2)-4
<i>Succisa pratensis</i>	I	2-(5)-8	<i>Juncus effusus</i>	I	2-(4)-8
<i>Holcus lanatus</i>	I	2-(3)-8	<i>Ranunculus lingua</i>	I	2-(4)-5

Affinities

GHI: FS1 Reed and large sedge swamp / PF3 Transition mire and quaking bog
 ZM: PHR-04A Magnocaricion elatae Koch 1926
 EUNIS: D2.332 Basicline bottle sedge quaking mires / D5.2141 Bottle sedge beds
 NVC: S10b *Equisetum fluviatile* swamp *Carex rostrata* sub-community (73.3%)
 Annex I: 7140 Transition mires

Proxy environmental data

Light: 7.6 Reaction: 5.0 Wetness: 9.2 Fertility: 3.2 Salinity: 0.1

Conservation value

Examples of this community may correspond with EU HD Annex I habitat 7140 Transition mires. Desmoulin's whorl snail (*Vertigo moulinsiana*), an EU HD Annex II species, has been recorded from this community at several sites.

Management

Typically, this is an unmanaged community. The main threats include drainage, reclamation, ground water pollution and peat extraction.

Key references

Foss, P., Crushell, P. (2007) Monaghan Fen Survey 2007. Volume I: Main report. (unpublished). Monaghan County Council/National Parks and Wildlife Service.
 O'Criodain, C. (1988) Parvocaricetea in Ireland (Ph.D. thesis). University College Dublin, Ireland.

Synopsis version: V1.0

Synopsis date: November 2018

Synopsis author(s): P.M. Perrin



Photo 1. FE2D *Carex rostrata* – *Menyanthes trifoliata* mire, Carha, Ox Mountains, Sligo (P. Perrin, June 2012)



Photo 2. FE2D *Carex rostrata* – *Menyanthes trifoliata* mire, Fin Lough, Offaly (J. Brophy, November 2014)