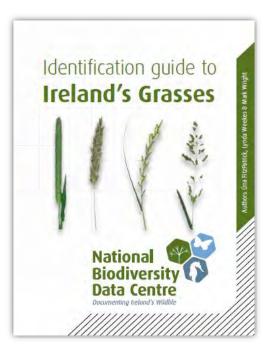
BSBI MINI-WORKSHOP



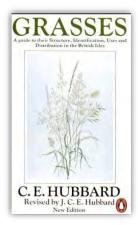
Tricky Grass Groups

Lynda Weekes





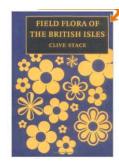
Resources













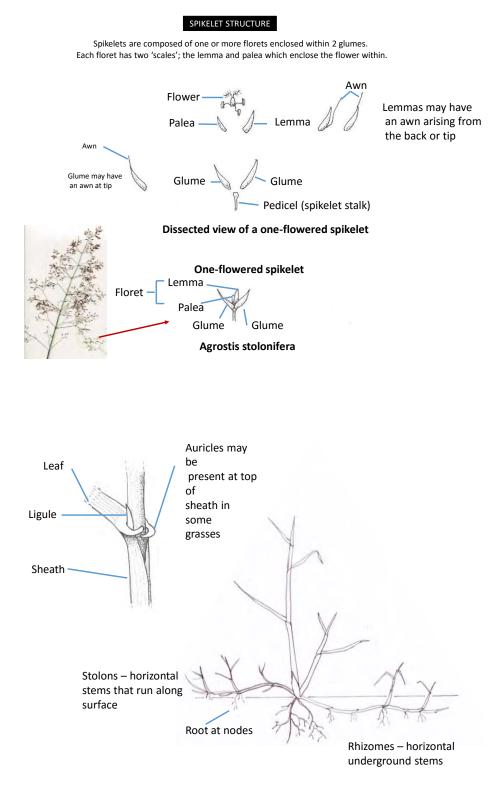
Agrostis species (Bent grasses):
5 species (All native)



• *Poa* species (meadow-grasses): 7 species (4 native, 3 introduced)

Bromes

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Agrostis spp. (Bent grasses) Inflorescence a panicle, one fertile floret per spikelet



1 floret 5 species Small 1-flowered spikelets in a fine feathery panicle



Glume

NO awn on the lemma – 3 species

Panicle shape



Agrostis capillaris (Common Bent)



Agrostis stolonifera (Creeping Bent)

Panicle very narrow and denser than other Agrostis spp.



Agrostis gigantea (Black Bent)

NO awn on the lemma contd.

Agrostis capillaris (Common Bent)

Ligule very short (up to 1mm) rounded at tip



Spreads by rhizomes sometimes stolons.

across habitats widespread & abundant. Agrostis stolonifera (Creeping Bent)

Ligule 1-6mm long often ragged at tip



Spreads by stolons.

across habitats widespread & abundant. Agrostis gigantea (Black Bent) A particularly tall grass



Ligules 1.5-6mm long toothed around tip.



Spreads by rhizomes.

waste ground occasional.

AWN on the lemma (occasionally awnless) - 2 species

Agrostis canina sens. lat. (Velvet Bent):

Spreads by stolons rooting at nodes Forms a close carpet

Ligule pointed, 2-4mm long smooth at tip

Bogs, fens, heaths, mountain grasslands; abundant.

Lemma with awn



Agrostis vinealis (Brown Bent):

Spreads by rhizomes forming dense tufts



Ligule pointed, 1-5mm long & ragged at tip

Heaths, mountain grassland; occasional.

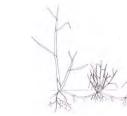
What if occasionally awnless?

Agrostis canina sens. lat. (Velvet Bent)



Spreads by stolons.

Agrostis stolonifera (Creeping Bent) Agrostis vinealis (Brown Bent):



Spreads by rhizomes forming dense tufts

Finer-looking panicles

Denser panicles

Spreads by stolons.

Ligule smooth at tip

bogs, fens, heaths, mountain grasslands

across habitats

Ligule often ragged at tip

heaths, mountain grassland

Poa spp. (Meadow grasses)

Inflorescence a panicle, >1 fertile floret per spikelet, glume shorter than lowest lemma



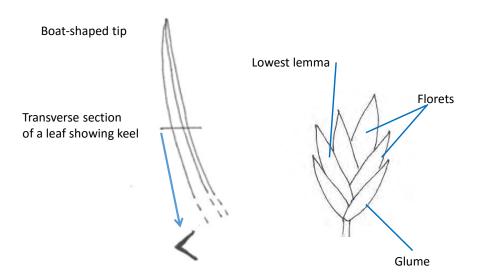
5 native species 2 introduced species

Spikelets flattened, 2-10 flowered

Glumes and leaves keeled

Awnless

Stems slightly or noticeably flattened



Spikelets Viviparous:



Poa alpina

(Alpine Meadow-grass) Sligo and Kerry Very rare on mountain cliff ledges (Counties Sligo and Kerry)

Don't confuse with *Festuca vivipara*

F. vivipara Bristle like leaves Ligule extremely short

P. alpina Leaves 2-5mm wide Ligule up to 6mm

Spikelets not viviparous

Ligule long and pointed (4-10mm)

Poa trivialis (Rough Meadow-grass)



Damp meadows, waste places; widespread & abundant



Leaves taper to a long triangular shaped tip

Ligules short and blunt

Ligules very short <0.5mm

Poa nemoralis (Wood Meadow-grass): Introduced

Panicle delicate and nodding

Woods and shady areas

Plant strongly compressed:

Poa compressa (Flattened Meadow-grass): Introduced

Ligules 0.5-3mm

Panicle stiff

Rhizomes

Dry waste places; rare.



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Ligule short and blunt (1-3mm long)

Poa pratensis sens. lat. (Smooth Meadow-grass) P. humilis often included in this species group



Glumes:

Sharply pointed

Poa humilis

(Spreading Meadow-grass) Often confused with P. pratensis

Lower with 1 vein, upper with 3 Lower and upper with 3 veins Blunter at tips

Glumes:

Not hairy at leaf-sheath junction

Meadows, waste places; abundant.

Often hairy at leaf-sheath junction

Damp meadows, waste places; widespread.

Ligule short and pointed/blunt (2-5mm long)

Poa annua (Annual Meadow-grass)

Generally a shorter plant

Found flowering all year round

Meadows, waste places; abundant





Transverse wrinkles often on leaves

If very small, and compressed-looking - confusion with *Poa compressa*:

P. annua Upper glume with 3 veins, lower with 1 No rhizomes (annual) Ligule more pointed **P. compressa** Upper and lower 3 veins Rhizomes Ligule blunt (0.5-3mm)

The Bromes (Bromus spp. Bromopsis spp. & Anisantha spp.)

Inflorescence a panicle, more than 1 fertile floret per spikelet, glume shorter than lowest lemma

Lemmas with awns and leaves and/or stems hairy

Bromopsis spp.	2 species, 1 very rare

Anisantha spp. 3 species, 2 very rare

Bromus spp. 5 species, 2 very rare



Bromopsis spp. 2 species, 1 very rare





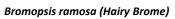
Anisantha spp. 3 species, 2 very rare







Bromus spp. 5 species, 2 very rare





Spikelets nodding on long drooping branches



Sheaths hairy, has auricles.

Shady woods, waste places widespread.

Bromopsis erecta (Upright Brome)



Spikelets erect

Sheaths hairless, no auricles.

Waste places, meadows, sand dunes Most records from east

ANISANTHA spp.

Spikelet parallel sided, and then widening towards the tip as it matures.



Anisantha sterilis (Barren Brome). Introduced



© Fabelfrohi@wikicommons Loose drooping panicle.

Fine rough awn 15-30mm long.

Lower sheaths softly hairy, upper sheaths usually hairless.

waste places, arable land; mainly recorded from the east Anisantha diandra (Great Brome) Introduced



Loose drooping panicle.

Stout rough awn 35-60mm

Lower and upper sheaths loosely hairy.

waste places, arable land

Anisantha madritensis (Compact Brome) Introduced



Panicle dense, erect.

Fine rough awn 12-18mm long

Lower sheaths softly hairy, upper sheaths hairless.

waste places

Bromus hordeaceus (Soft-brome)

Panicle erect and open Spikelets larger 12-22mm long.



Lemmas hairy keels, blunt at tip. >6mm

Lower and upper sheaths hairy.

Leaves densely hairy.

meadows, waste places Widespread





© Jenny Seawright

Bromus lepidus (Slender Soft Brome) Introduced

Panicle erect and open Spikelets smaller 7-15mm long



Lemmas hairless Two-toothed at tip <6mm

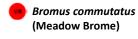
Lower leaf sheaths hairy, upper sheaths usually hairless.

Leaves softly hairy

meadows, waste places Occasional

Bromus racemosus (Smooth Brome) rare Panicle erect and open.

Spikelets 12-16mm long.



Panicle loose, drooping when ripe

Spikelets 18-28mm long.

Bromus secalinus (Rye Brome) Introduced Panicle erect and open, but drooping to one side when ripe.

Spikelets 12-24mm long.



Lemmas hairless, blunt at tip.

Lower leaf sheaths hairy, upper usually hairless.

Leaves sparsely hairy underneath. Confused with *B. commutatus*



Lemmas hairless, slightly toothed at tip.

Lower leaf sheaths hairy, upper sheaths usually hairless.

Leaves with very short hairs

Confused with B. racemosus



Lemmas usually hairy blunt at tip.

Leaf sheaths usually hairless.

Leaves long hairs above, short hairs below.

16/03/2016

THANK YOU

