

The South Lancashire Flora
(Vascular Plants Section 1C Horsetails)

CALAMOPHYTES HORSETAILS

EQUISETACEAE Horsetail family

Equisetum hyemale L. ssp. *hyemale* Rough Horsetail

Status & distribution: Native (1) Rare as a native occurring only by the River Calder, Whalley (SD73H, P Jepson, c.1972 onwards).

Former Distribution: Prestwich (SD80B, CJ Wild, 1877, MANCH); near Warrington (*Dickinson* 1872).

Habitat: Woodland and scrub, on a steep clay bank.

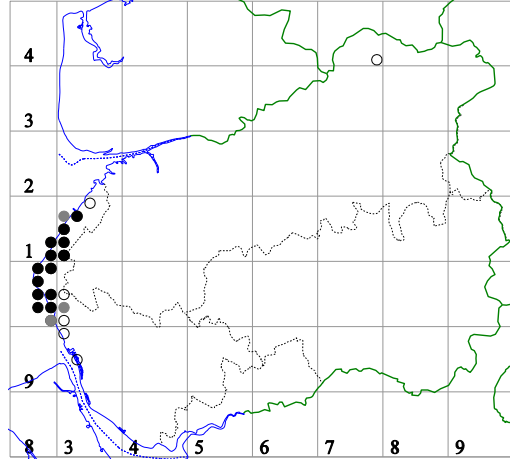
Comments: The historic records were formerly dismissed by Travis and were not listed in *Savidge et al* (1963).

Equisetum hyemale L. ssp. *affine* Rough Horsetail

Status & distribution: Neophyte (4), increasing. This vigorous North American subspecies is established by the large pond at Edge Hill University (SD4207, West Lancashire Wildlife Bioblitz, 2010); by an ornamental pond east of Springfield Farm, Walmersley (SD7913, DP Earl & J Earl, 2010); Brookfield Lane, Aughton (SD3904, J Styles, 2019). Plants at Scutchers Acres, Burscough (SD4510, G Clarkson, 2020) are also thought to be this subspecies.

Habitat: Pond margins.

Equisetum variegatum Schleicher Variegated Horsetail



Birkdale DP Earl 2008

Status & distribution: Native, Nationally Scarce.

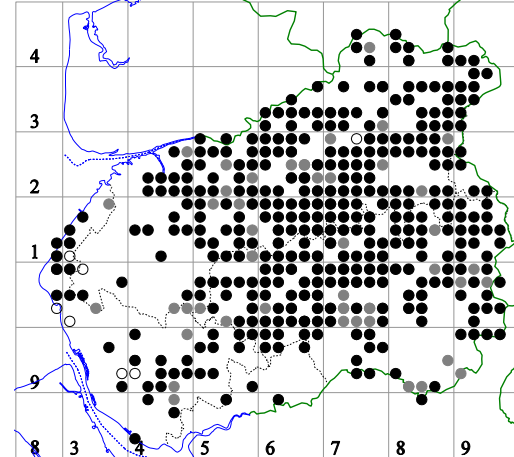
Frequent along the Sefton coast from Hightown to Southport.

Former Distribution: Pendle Moor (SD74V, A Turner, n.d.).

Habitat: Dune-slacks, lower slopes of dunes, moorland flushes.

Comments: A slight decline to historic urbanisation. Plants should be looked for within upland flushes in the hill districts.

Equisetum fluviatile L. Water Horsetail



Ainsdale DP Earl 2008

Status & distribution: Native. Most frequent in the hill districts, occasional at lower altitudes, locally frequent along the Sefton coast.

Habitat: Reservoirs, mill lodges, marl pits, ditches, ponds, flashes, flushes, mires and dune-slacks.

Equisetum x *dycei* C. Page = *E. fluviatile* L. x *E. palustre* L.

Distribution: Native, Rare (2). Occurs at Birkdale Dunes (SD31C, MP Wilcox & P Acock, 2003, det. P Acock); Sunnyhurst (SD62R, P Jepson, 2005, det. C Page).

Habitat: Dune-slack; open shale-clay, on sparsely vegetated ground.

Comments: This hybrid is probably under-recorded and possibly confused with *E. x litorale*. This hybrid is said to be short lived. Whilst the Birkdale population is robust and extensive the Sunnyhurst population is weak and confined to a small area.

Equisetum x *willmotii* C. Page = *E. fluviatile* L. x *E. telmateia* Ehrh.

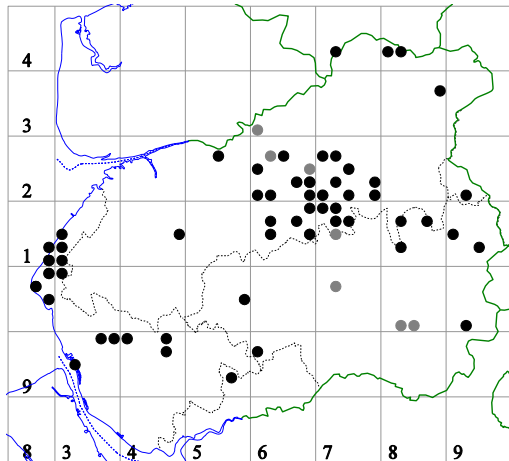
Status & distribution: Native, Endemic, Scarce (4). Recorded by P Jepson from a ditch and adjacent habitat on the edge of Darwen Moors (SD62R, 2005); covering about half a hectare in a field by Billy Brook, Turton (SD71H, 2005); Oswaldtwistle (SD72I, 2006); Ashworth Valley (SD82I, 2008). All records conf. C Page.

Former Distribution: Southport (SD31, V Gordon, c. 1970's, det. C Page, E).

Habitat: Ditch banks and flushes; perhaps formerly found in a dune-slack.

Comments: Possible overlooked.

Equisetum x *litorale* Kühl. ex Rupr. = *E. fluviatile* L. x *E. arvense* L. Shore Horsetail



Tagg Island, Birkdale PH Smith 2008

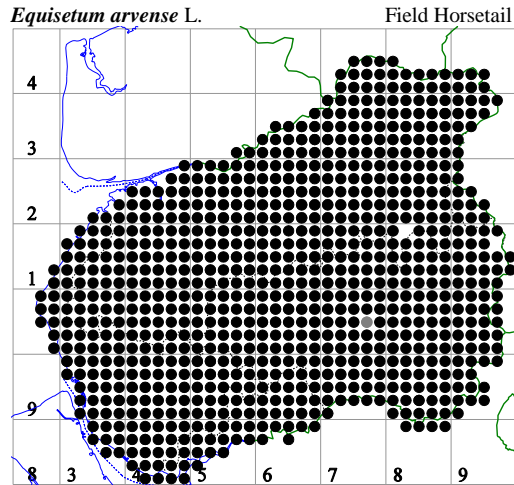


Formby M Knowles 2007

Status & distribution: Native, Axiophyte. Locally frequent along the coast between Hightown and Birkdale, occasional in the lowlands, locally common in the hill districts.

Habitat: Dune-slacks, ditches near the sea, damp ground, wet woodland, reservoirs, mill lodges and flushes in the hills especially in iron rich springs.

Comments: The earliest record traced is from dune-slacks, Formby (SD20T, JA Wheldon, c. 1912). This hybrid is thought to be under-recorded.



Southport DP Earl 2008

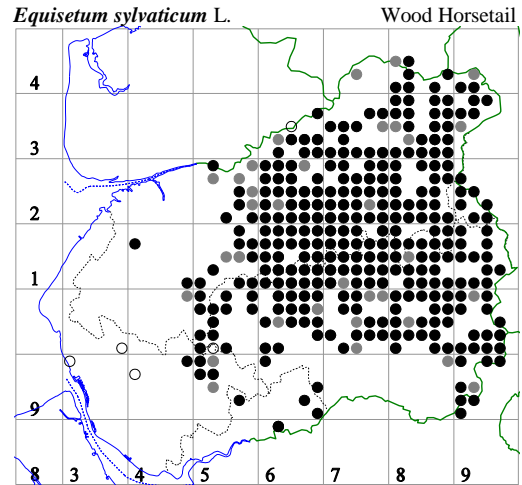
Status & distribution: Native. Common and widespread at lower altitudes, rare on the highest ground.

Habitat: Disturbed ground, roadsides, flushes, dune-slacks, ditches and pond margins.

Comments: Several varieties have been recorded. Cones are occasional on branched green shoots as at Smithills (SD61V).

Equisetum x rothmaleri C. Page = *E. arvense* L. x *E. palustre* L.

Status & distribution: Native, Rare (1). Close to a reservoir on Darwen Moors (SD6822, MJY Foley, 2008, det. C Page).

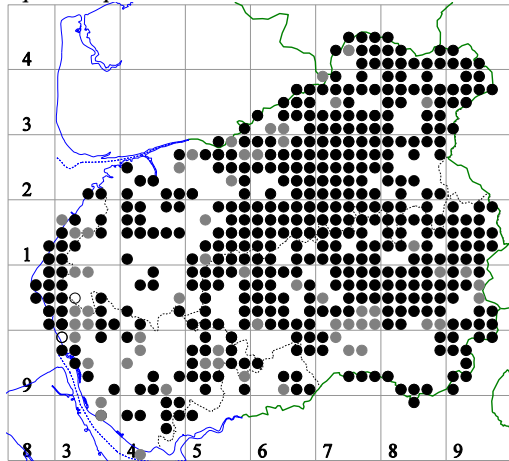


Cuerden Valley DP Earl 2020

Status & distribution: Native. Most frequent in the hill districts, growing luxuriantly in the West Pennine Moors; in the river valleys and cloughs on the coal measures; rare at lower altitudes.

Habitat: Acid grassland slopes, flushed meadows, cloughs and damp woodlands.

Equisetum palustre L. Marsh Horsetail



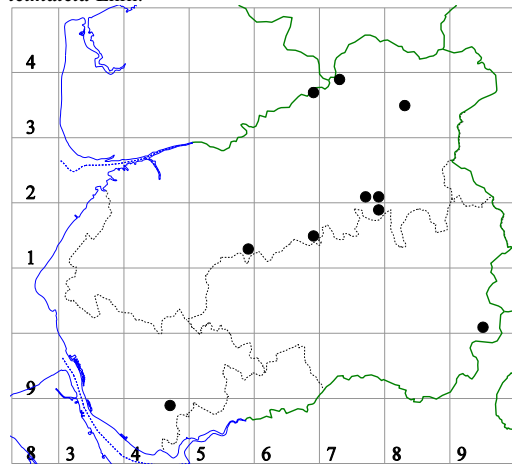
Equisetum palustre Piethorne Valley J Somerville 2006

Status & distribution: Native. Widespread, most frequent along the coast and in the hill districts. There is a record limited to 10km precision for SJ68 where plants are known to occur at the Woolston Eyes but on the Cheshire side of the old River Mersey.

Habitat: Margins of ponds, ditches, damp meadows, in dune-slacks and upland flushes.

Comments: Several forms and varieties were recorded in the past.

Equisetum x *font-queri* Rothm. = *E. palustre* L. x *E. telmateia* Ehrh.

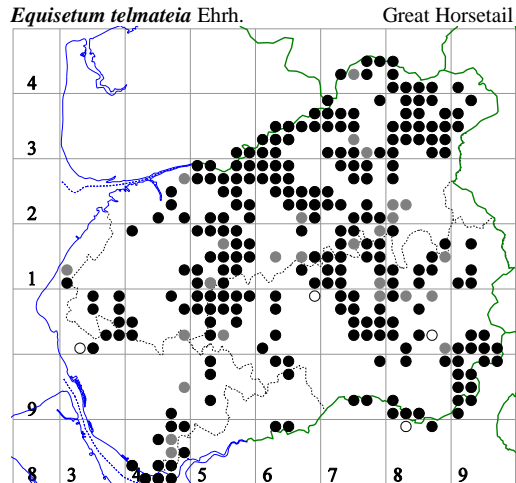


West Pennine Moors DP Earl

Status & distribution: Native, Scarce (10) in the north-east from (SD5812) to (SD8235); only known elsewhere at Silver springs (SD90K, A Bamforth, 2003) and Cronton Quarry (SJ48U, Liverpool Botanical Society, 2016).

Habitat: Flushed neutral grassland and habitats open to recent colonisation.

Comments: First confirmed from material collected from Lumb and Irwell Vale (SD72V, P Jepson, 2002, det. C Page) but the populations were known for some time prior to this date. The spores are partly abortive. Populations may not be closely associated with either of the parent species.



Chorley DP Earl 2008

Status & distribution: Native, Axiophyte. Locally frequent especially along the river valleys.

Former distribution: Liverpool (SJ39, JH Lewis, 1874, MANCH).

Habitat: Wet woodland, wooded cloughs, moorland flushes, shaded banks, flushed clay cliffs along the Mersey estuary, occasional as a colonist of waste ground.

Comments: Plants from Oglet Shore (SJ48K, 1947) were determined as as var. *serotinum* A. Braun by Miss PA Jones.