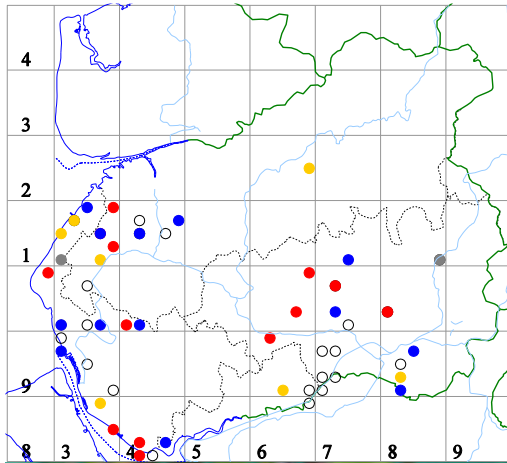


BRASSICACEAE

Cabbage family

Erysimum cheiranthoides L.

Treacle Mustard



Southport DP Earl 2010

Status & distribution: Archaeophyte-colonist, Near Threatened (Red List for England); widely recorded but mainly western.

Earliest record traced: Southport area (SD31, Glazebrook 1826).

Habitat: Waste ground, roadsides, and tips.

Comments: Native to mainland Europe.

Erysimum repandum L.

Spreading Wallflower

Status & distribution: Neophyte-casual; in a field at Whiston (SJ49Q) & waste ground, Prescot (SJ49R) Rev. M Toohey, 1910.

Habitat: Disturbed ground.

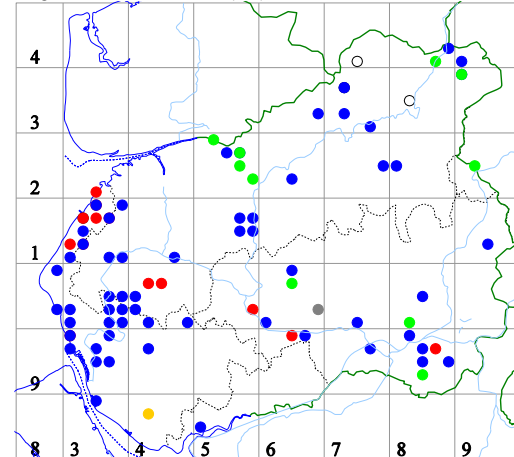
Comments: Native to mainland Europe and Asia; widely naturalised elsewhere such as in the USA.

Erysimum x marshallii (Henfr.) Bois

Siberian Wallflower

Status & distribution: Assumed to be of horticultural origin. At this stage records need to be traced.

Erysimum cheiri (L.) Crantz Wallflower



Southport DP Earl 2008

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); widespread and increasingly semi naturalised in areas near houses.

Earliest record traced: Whalley Abbey (SD73I, J Dugdale, 1851).

Habitat: Walls, pavements, waste ground and tips.

Comments: Native to the eastern Mediterranean. Plants of horticultural origin are frequent as casuals.

***Erysimum rhaeticum* (Hornem.) DC.**
Swiss Treacle-mustard



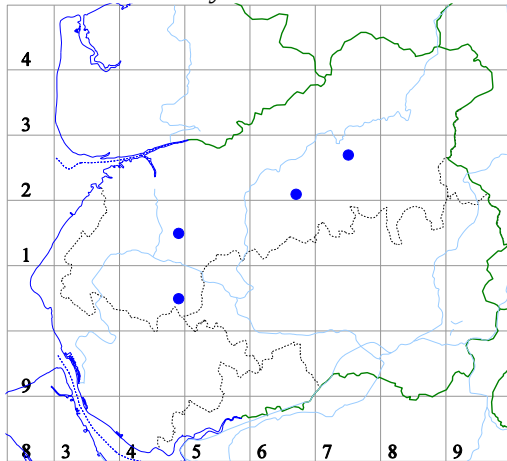
Clitheroe MP Wilcox 2010

Status & distribution: Neophyte-casual; one plant growing with *Osteospermum jucundum* off Up Brooks Road, Clitheroe (SD7542, MP Wilcox, 2010, det. B.A. 'Jesse' Tregale); three plants on a wall, track by Carr Wood (SD5427, DP Earl, 2012).

Habitat: Waste ground and on or below walls.

Comments: Native to central and eastern Europe.

***Erysimum linifolium* (Pers.) J. Gay**
Erysimum 'Bowles Mauve'



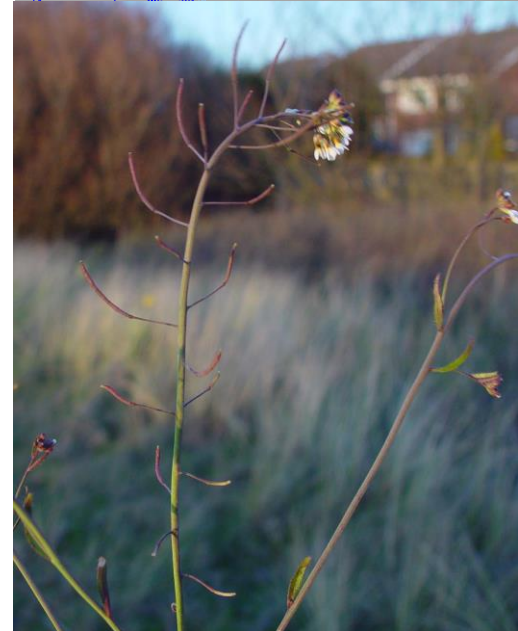
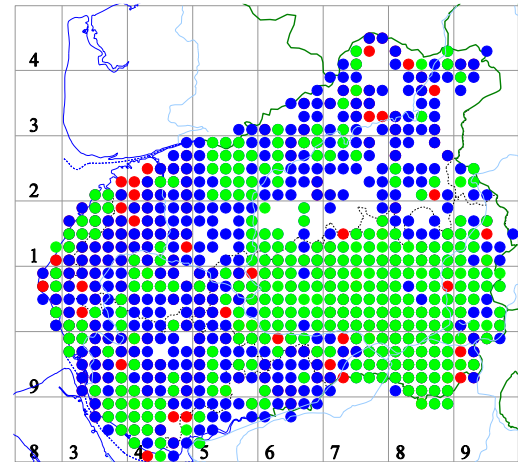
Tockholes DP Earl 2011

Status & distribution: Neophyte-surviving, planted; at the junction of Daub Lane and Sandy Lane, Mawdesley (SD4814, DP & J Earl, 2000) but since lost; Tockholes (SD6621, DP & J Earl, 2011); Skelmersdale (SD4905, steveb53, 2019); Scaitcliffe House, Accrington (SD7527, R Burnley, 2019).

Habitat: Surviving as a relic of cultivation usually in grassy places.

Comments: Native to Spain and Portugal.

***Arabis thaliana* (L.) Heynh.**
Thale Cress



Birkdale DP Earl 2008

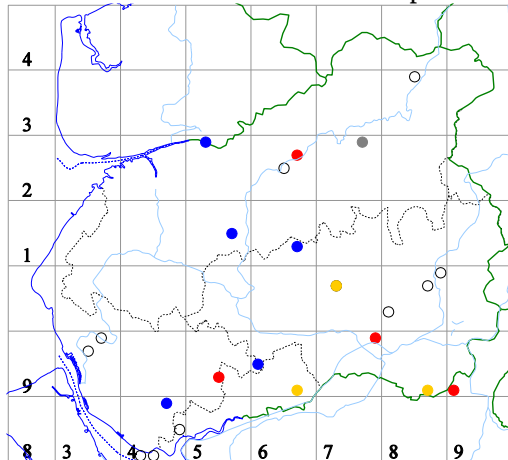
Status & Distribution: Native, Least Concern (Red List for England); now common at lower altitudes.

Habitat: Well drained habitats on the limestone and sandy soils, wall tops, pavements, gardens, flowerbeds, arable fields, sand-dunes and waste ground.

Comments: Increasing considerably as an adventive in urban areas.

***Camelina sativa* (L.) Crantz**

Gold-of-pleasure



Lower Penwortham DP Earl 2009

Status & distribution: Archaeophyte-colonist, Least Concern (Red List for England); there are post 1994 records for (SJ9091, E Kearns, 1996 & 1997); a field west of Sandfield Hall (SJ6095, DP & J Earl, 2004); Lower Penwortham (SD5328, DP & J Earl, 2009); east of Ox Lane, Tarbock (SJ4688, S Fletcher, 2010); allotment fields at Holden's Farm (SD6612, Manchester Field Club, 2010, det. MP Wilcox); Big Lodge, Yarrow Valley Park (SD5714, C Winder, 2011).

Earliest records traced: Thornham (SD8909); Prestwich (SD8103) & near Middleton (SD80T) J Percival *Grindon* 1859.

Habitat: Waste ground, arable weed, flax-fields, garden casual, tips, newly sown grass and sometimes grown as a crop.

Comments: Native to southern and eastern Europe; often as an impurity of imported seed.

***Camelina sativa* (L.) Crantz ssp. *alyssum* (Miller) E. Schmid** Gold-of-pleasure

Status & distribution: Neophyte-casual; cornfield near Ditton Station (SJ48X, R Brown, 1876, det. TCG Rich, BM); canal bank and Seven Pits, Aintree (SJ39U, JA Wheldon); Litherland (SJ39N, JA Wheldon & WG Travis, 1914); Poultry run, Nelson (SD83P, Nelson Nat. Hist. Soc., 1921); Feniscowles (SD62M, WH Western, n.d.).

Habitat: Cornfields, poultry runs, canal banks, tips.

Comments: Native to mainland Europe.

***Neslia paniculata* (L.) Desv. Ball Mustard**

Status & distribution: Neophyte-casual; recently recorded from SJ59 (full details not known).

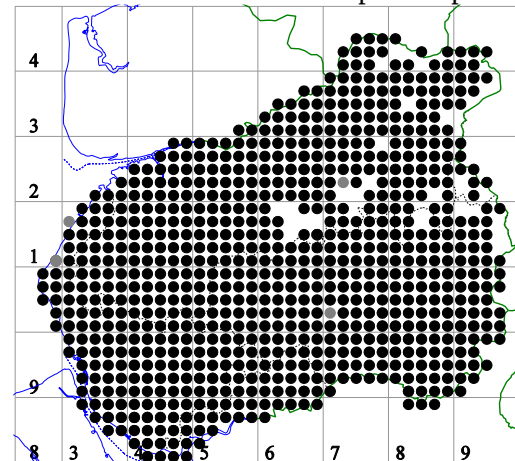
Former distribution: Walton (SJ39M, JA Wheldon, n.d.); tip by canal at Litherland (SJ39J, JA Wheldon & WG Travis, 1915); Whiston (SJ49Q, Rev. M Toohey, n.d.); Barden Lane Tip (SD83H, CR Ritching, 1918); Birkdale (SD31H, H Britten, 1927).

Habitat: Tips, disturbed ground and arable fields.

Comments: Native to southern and eastern Europe.

***Capsella bursa-pastoris* (L.) Medik.**

Shepherd's-purse





Southport DP Earl 2008

Status & Distribution: Archaeophyte-colonist, Least Concern (Red List for England); generally, very common throughout, wherever ground is disturbed although absent from salt-marshes and high moorland.

Habitat: Arable fields, farms, garden paths and flowerbeds, disturbed grassland, roadsides, tracks and waste ground.

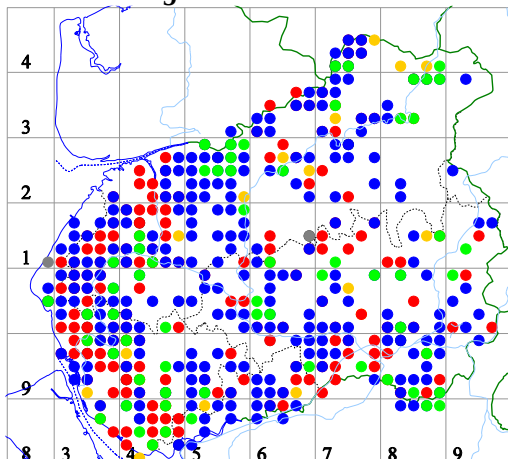
***Turritis glabra* (L.) Bernh.**

Tower Mustard

Status & distribution: Neophyte-casual; Norris Green (SJ39X, V Gordon, 1997, LIV).

Former distribution: Southport (SD31I, Robinson 1851); two to three plants by a newly sown grass border of a constructed road between Woolton and Hunts Cross (SJ48H, W Cheshier, 1932, LIV).

***Barbarea vulgaris* R. Br.** Winter-cress



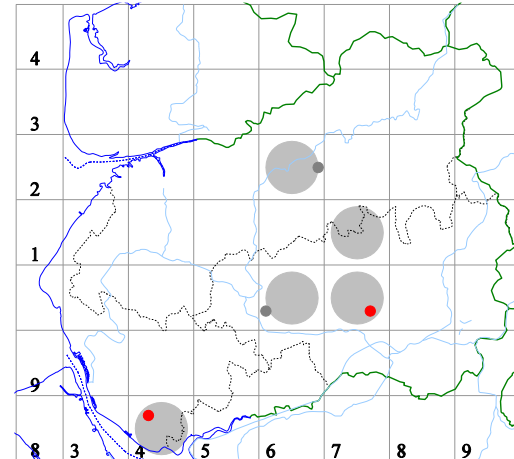
Status & Distribution: Native, Least Concern (Red List for England); widespread at lower altitudes and locally frequent in some areas.

Habitat: Riverbanks and shingle, streamsides, ditch sides, waste ground and arable land.

Comments: Thought to be declining in the eastern districts of Greater Manchester.

***Barbarea stricta* Andr.**

Small-flowered Winter-cress



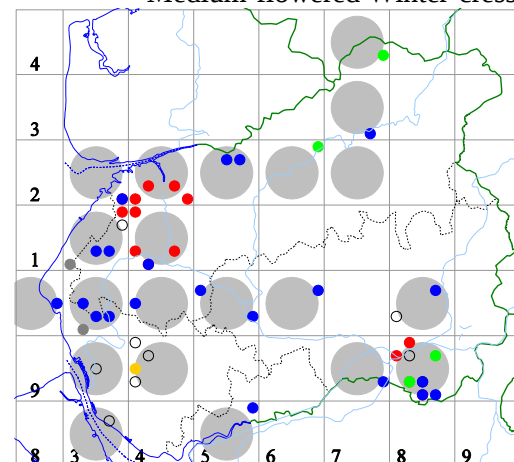
Status & distribution: Neophyte-casual; Platt Bridge (SD60B, Rev CE Shaw, between 1948-1957); culvert of Fishmoor Reservoir (SD62X, CA Howe, 1957); Broad Green disused railway (SJ48I, V Gordon, 1989); Clifton Moss (SD70R, PMA Francis, 1988); SD71 (Atlas 2000).

Habitat: A casual plant of disturbed ground.

Comments: The above records require confirmation by a referee should herbarium material exist. It is possible this species may occur on riverbanks.

***Barbarea intermedia* Boreau**

Medium-flowered Winter-cress





Holmeswood DP Earl 2008

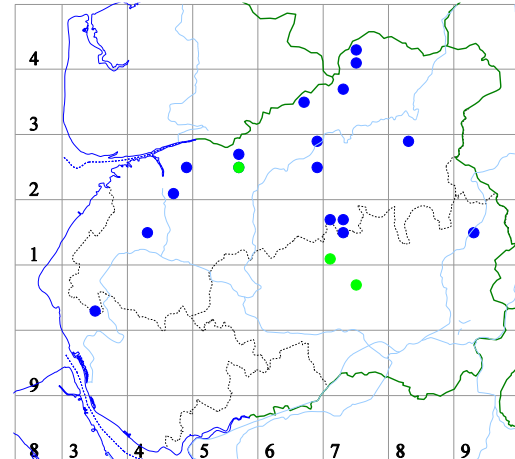
Status & distribution: Neophyte-casual; locally frequent on arable land especially in the West Lancashire District and occasional on sandy ground about Chorlton and Withington.

Earliest record traced: Bootle (SJ39M, J Dickinson, 1838, LIV).

Habitat: Arable fields and associated farm tracks, disturbed ground on sandy soils.

Comments: Native to Western Europe and North Africa.

***Rorippa islandica* (Oeder ex Murray)**
Borbás Northern Yellow-cress

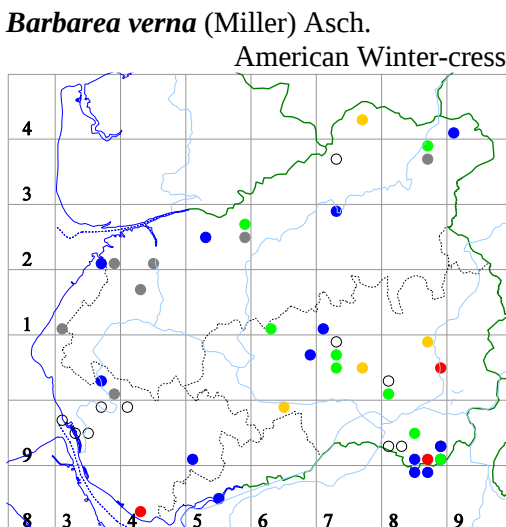


Clitheroe MP Wilcox 2008

Status & Distribution: Native, **Nationally Uncommon**; Scarce (15), first discovered in 2003 by P Jepson about reservoirs in the West Pennine Moors area at Wayoh (SD71D), Entwistle (SD71H) & Jumbles (SD71I) and at Clowbridge Reservoir (SD82J); first recorded as a ruderal at Clitheroe Park (SD74K, MP Wilcox, 2008). Further populations have since been found about reservoirs and as a ruderal.

Habitat: Reservoir margin, draw-down zones and similar seasonally wet open habitats. Also occurring as a ruderal weed in churchyards, parks, allotments and along roadsides.

Comments: A western species recently discovered in the vice-county; most populations are associated with sites regularly visited by wintering wildfowl. In 2003 the Wayoh Reservoir population comprise many thousands of plants.



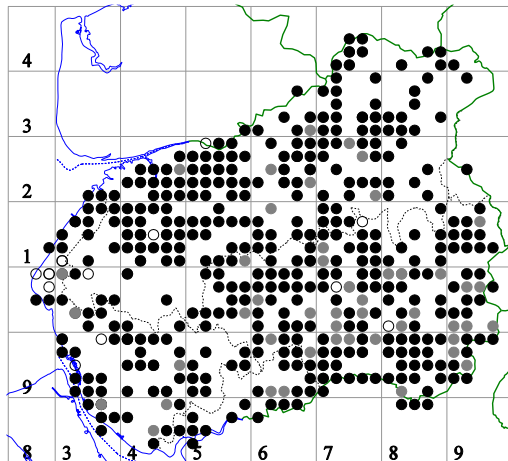
Status & distribution: Neophyte-casual; infrequent nowadays although one considered not uncommon.

Earliest records traced: Sandy fields at Bootle (SJ39H) and also at Linacre (SJ39M) WS Skelthorpe, Dickinson 1851.

Habitat: Disturbed ground, cultivated ground, canal and railway banks.

Comments: Thought to be far less frequent than *B. intermedia* at present.

***Rorippa palustris* (L.) Besser**
Marsh Yellow-cress

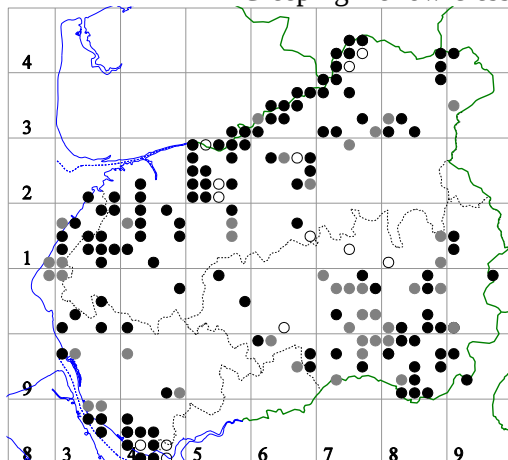


Rochdale J Somerville 2008

Status & Distribution: Native, Least Concern (Red List for England); widespread, frequent to locally common.

Habitat: Muddy places, ponds, canal margins, damp disturbed ground and reservoir draw-down zones; occasional as a pavement and flowerbed weed.

***Rorippa sylvestris* (L.) Besser**
Creeping Yellow-cress



Calderstones, Whalley DP Earl 2009

Status & Distribution: Native, Least Concern (Red List for England); Axiophyte, most frequent along the river Ribble and as a colonist of disturbed clay soils in urban districts.

Habitat: On river shingle, along streamsides, on damp disturbed ground, a weed of pavements and flowerbeds.

Comments: Increasingly frequent in urban ruderal habitats and often locally common.

***Rorippa x anceps* (Wahlenb.) Rchb.**
= *R. sylvestris* x *R. amphibia*

Hybrid Yellow-cress

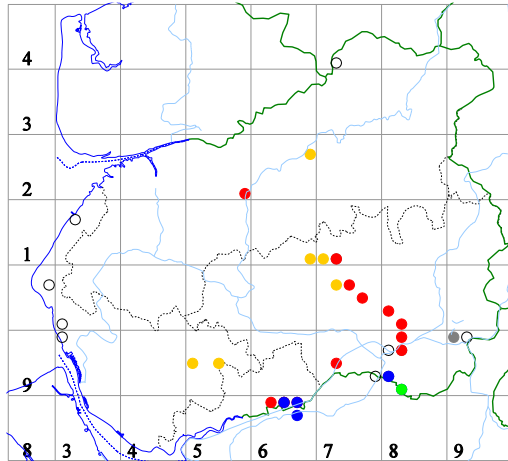
Status & Distribution: Native, **Nationally Scarce**; Rare (1), Endangered or Extinct at the vice-county level; Wigan (SD50X, EM Stephenson, post 1995).

***Rorippa x armoracioides* (Tausch) Fuss**
= *R. sylvestris* x *R. austriaca*

Walthamstow Yellow-cress

Status & Distribution: Native, Nationally Rare (1), Endangered or Extinct at the vice-county level; a rare hybrid that occurred in South Manchester (SJ89Y, AR Franks, 1997, det., TCG Rich).

***Rorippa amphibia* (L.) Besser**
Great Yellow-cress



Status & Distribution: Native, Least Concern (Red List for England); Scarce (8), occurs at intervals along the Mersey, Irwell and tributaries from Bolton and Didsbury to Warrington. Many of the records are pre 1995 and renewed surveys are to be encouraged.

Former distribution: Formerly a localised species on the coastal plain and along the Leeds & Liverpool Canal, Cophurst (SD52V, SP & BM Garland, 1994); (SD62, n.d.); casual at Clitheroe Sewage Works (SD74F, T Hargraves, n.d.).

Habitat: Riverbanks, streamsides, oxbow lakes, mill lodges and canals.

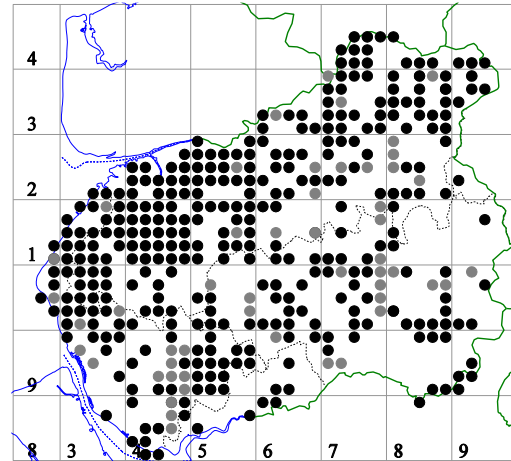
***Rorippa austriaca* (Crantz) Besser**
Austrian Yellow-cress

Status & distribution: Neophyte-casual; on a tip by Queen's Road, Collyhurst (SD80K, JR Ironside-Wood, 1964); near Copster Green (SD6733, P Jepson, 1974-1979, LIV, det. EF Greenwood); Hazel Moor (SD6832, E Stones, 1978).

Habitat: Tips and disturbed ground.

Comments: Native to mainland Europe.

***Nasturtium officinale* W.T. Aiton**
Water-cress



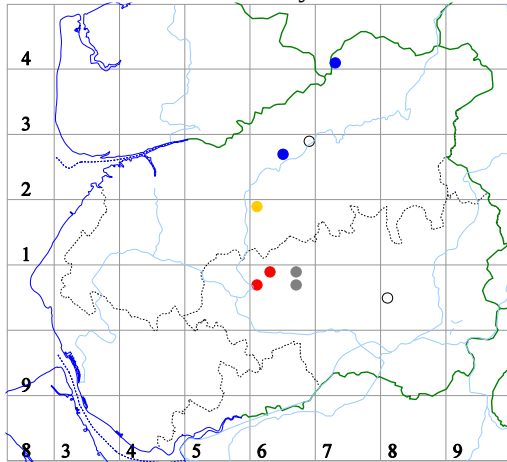
Culcheth DP Earl 2009

Status & Distribution: Native, Least Concern (Red List for England); widespread and locally common.

Habitat: Marshy ground, ditches, streams, riverbanks, canals, reservoirs and mill lodges.

Comments: The distribution of *Rorippa nasturtium-aquaticum* is very uncertain, as most plants will have been recorded at the aggregate level. It is thought however that this species is more common than *R. microphylla* or *R. x sterilis*.

Nasturtium* x *sterilis (Airy Shaw)
Oefelein = *N. officinale* x *N. microphylla*
Hybrid Water-cress



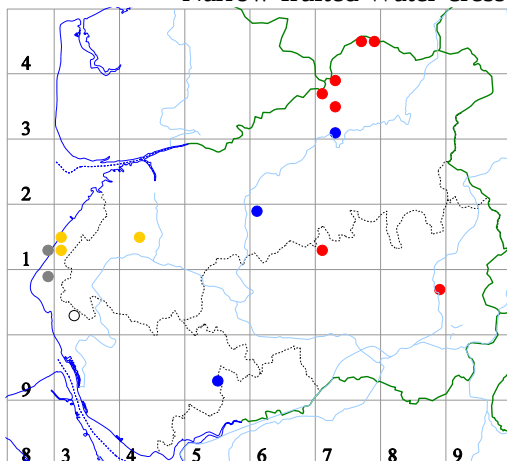
Status & Distribution: Native; Rare (3) or Scarce, the only recent records are from Kirklees (SD60D, PS Gateley, 1999); Witton Park (SD62N, P Jepson); south Manchester (SJ89, South Lancashire Flora Project, post 1995); Whalley Road (SD7340, MP Wilcox, 2010).

Former distribution: Whitefield (SD80C, J Jusy, 1842, det. HW Howard & AG Lyon); (SJ59, Biological Record Centre, n.d.); Blackburn (SD62, CA Newdigate, n.d., det. HW Howard & AG Lyon); Moss Hall Farm, Lostock (SD60T, Rev CE Shaw, 1956, det. HK Airy); Black Coppice (SD61E, JM Smith, 1986); Aspull (SD60J, V Gordon, 1988); Holden Clough area (SD90, A & N Bamforth & AR Franks, 1988).

Habitat: Ditches and marl pits.

Comments: This hybrid is thought to be under-recorded.

Nasturtium microphylla (Boenn.) Rchb.
Narrow-fruited Water-cress

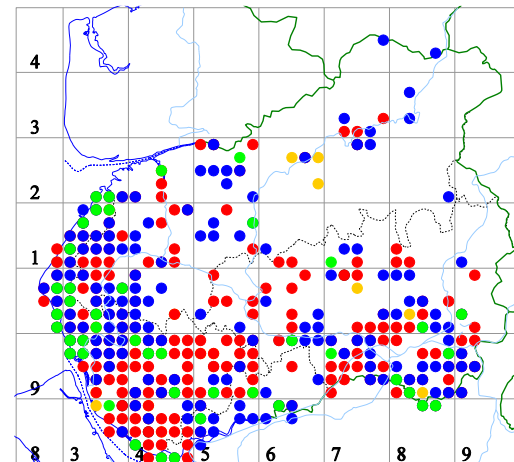


Status & Distribution: Native, Least Concern (Red List for England); Scarce (9), a scattering of recent records from Bold Moss to Downham.

Habitat: Ditches, flushes and streams.

Comments: Perhaps scarce but the distribution pattern may merely indicate recorder effort with most records having been made by SJ Bungard from SD73 & SD74; this species is likely to be more widespread and is considered under-recorded.

Armoracia rusticana Gaertner, Meyer & Scherb.
Horse-radish



Southport DP Earl 2008

Status & Distribution: Archaeophyte-cultivated; widespread and locally common at lower altitudes, scarce in the north-east and on the higher ground.

Habitat: Waste ground, roadsides, rank grasslands, sand-dunes and railway banks.

Cardamine bulbifera (L.) Crantz
Coral-root

Status & distribution: Naturalised in South Lancashire; established in Whitehall Park and Darwen Cemetery (SD6920, P Jepson, 1987 & 1996) and Pleasington

walled garden (SD6427, Biodiverse Society Project, 2017 & D Patel, 2023).

Habitat: Grassland and wildflower areas.

Cardamine quinqueflora (M. Bieb.)

Schmalh. Whorled Coral-root

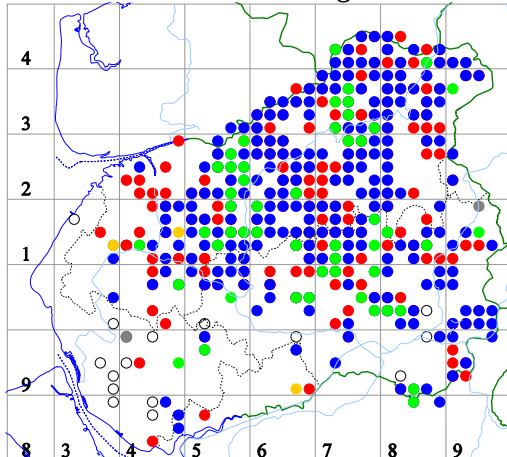


Status & distribution: Neophyte-naturalised; by Carr Mill Dam (SJ5297, B Allen, 2023).

Habitat: Woodland.

Comments: Native to Eastern Europe.

Cardamine amara L. Large Bitter-cress



Clitheroe DP Earl 2008

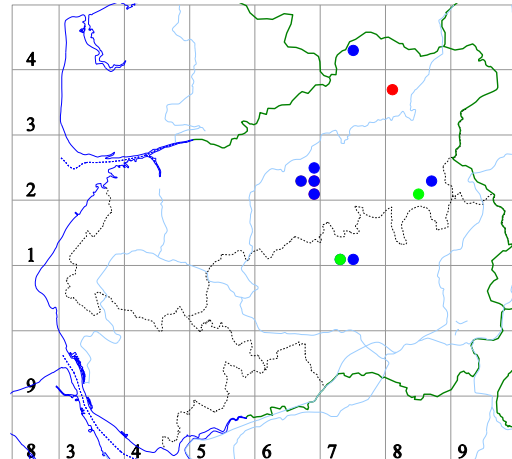
Status & Distribution: Native, Least Concern (Red List for England); widespread. Most frequent in wet woodlands along river valleys and in cloughs in the hill districts; rare in the south-west of the vice-county and probably lost from the former Liverpool locations.

Habitat: Wet woodlands particularly *Alnus* and *Salix*-carr, about mill lodges, wooded cloughs, along canal margins and ditches; in flushes in the hill districts.

Comments: "A typically Lancashire plant" according to V Gordon.

Cardamine raphanifolia Pourret

Greater Cuckooflower





Darwen DP Earl 2009

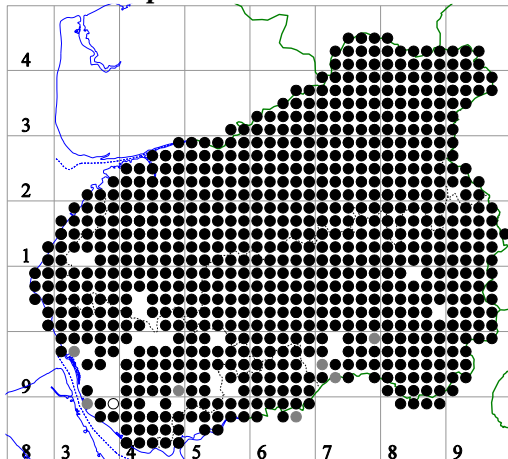
Status & distribution: Neophyte-naturalised; very local but established in several woods and stream banks about Darwen, Bolton and Bacup; also at Higham (SD83D, South Lancashire Flora Recorders Group) and along the River Ribble at Clitheroe (SD7443, MP Wilcox, 2010).

Earliest record traced: Sunnyhurst Wood (SD62R, P Jepson, 1983).

Habitat: Woods, stream banks, river shingle.

Comments: Native to southern Europe.

Cardamine pratensis L. Cuckooflower



Padiham DP Earl 2009

Status & Distribution: Native, Least Concern (Red List for England); generally common and widespread but surprisingly not recorded from some areas especially in the south-west of the vice-county.

Habitat: Dune-slacks, riverbanks, canal margins, marshes, wet meadows, damp lawns and upland flushes.

Comments: Several species, hybrids and varieties have been recognized in the past.

[*Cardamine* x *fringsii* Wirtgen f.

= *C. pratensis* x *C. flexuosa*

Status & Distribution: Native; Recorded for a BSBI map scheme (SD62, c. 1970).

Habitat: Unknown.

Comments: Ideally this record requires confirmation; precise details have not been traced.]

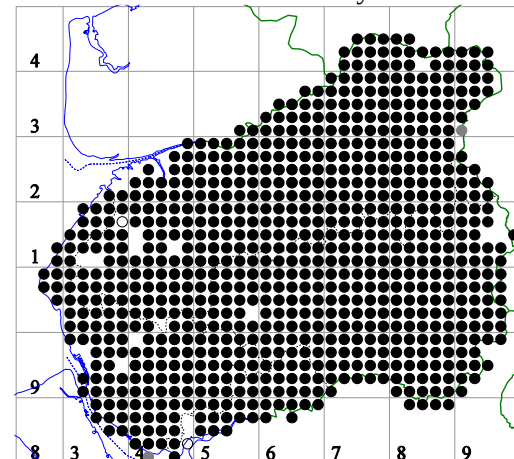
Cardamine impatiens L.

Narrow-leaved Bitter-cress

Status & distribution: Casual in South Lancashire; Accrington (SD72P, J Dugdale, 1852, LIV); Calderstone Park (SJ48D, SD Manning & JD Massey, 1930, MANCH & JD Massey, 1932, LIV); near Astley Station (SJ79D, Anon., MANCH, n.d.); Clitheroe (SD74L, E Stones, 1965). **Habitat:** Recorded as a garden weed and plant-pot weed at Calderstones Park.

Cardamine flexuosa With.

Wavy Bitter-cress





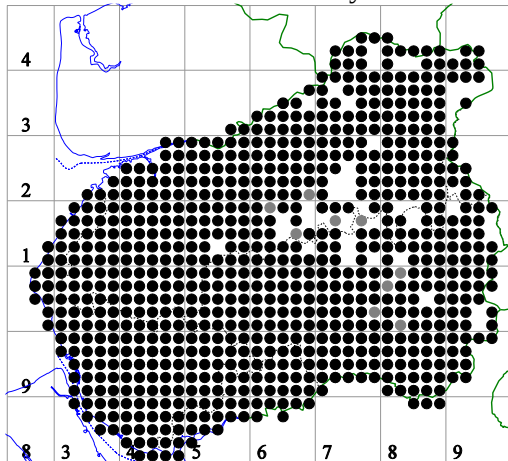
Churchtown J Somerville 2008

Status & Distribution: Native, Least Concern (Red List for England); now widespread and generally common although not recorded from some western rural and urban areas.

Habitat: Stream banks, damp woods, flushes, damp soils, flowerbeds and cultivated ground on damp soils.

Comments: This species is more moisture demanding species than *C. hirsuta* and has steadily increased in frequency as a suburban garden weed.

Cardamine hirsuta L. Hairy Bitter-cress



Birkdale DP Earl 2008

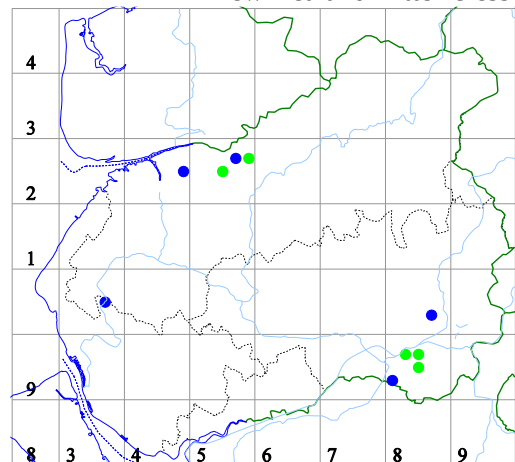
Status & Distribution: Native, Least Concern (Red List for England); common and widespread at lower altitudes, notably absent from the higher ground.

Habitat: Well-drained sandy soils, sand-dunes, arable fields, disturbed ground, gardens, walls and pavements.

Comments: Usually on more well-drained soils than *C. flexuosa*.

Cardamine corymbosa Hook. f

New-Zealand Bitter-cress



Longton M Chappell 2008

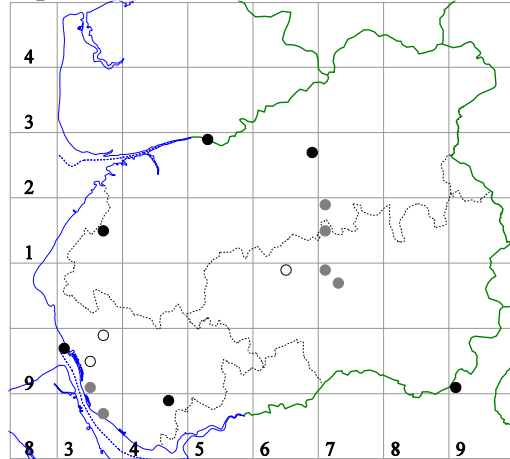
Status & distribution: Neophyte-naturalised or casual.

Earliest record traced: Garden escape from a nursery, Lydiate (SD3604, RF Goodchild, 2006),

Habitat: Bare ground and as a flowerbed weed.

Comments: Native to New Zealand; generally casual but likely to persist by Boggart Hole Lake (SD8602, Grey to Green Project, 2015, det. DP Earl).

***Lepidium sativum* L.** Garden Cress



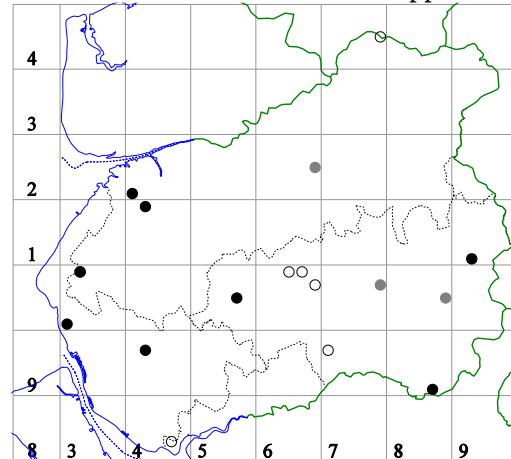
Status & distribution: Neophyte-casual; post 1994 records from Tiviot Dale, Stockport (SJ99A, E Kearns, 1996); Pool Hey (SD31S, DP Earl & SP Toone, 2003); Pool Hey (SD3615, DP Earl & SP Toone, 2003); Asda car park, Blackburn (SD6827, D Ross, 2004); Lower Penwortham (SD5328, DP Earl, 2010); east of Ox Lane, Tarbock (SJ4688, S Fletcher, 2010); Waterloo (SJ3197, DP & J Earl, 2014). There are records limited to 10km precision for SD80 & SD82.

Earliest record traced: Walton (SJ39M) & Aintree (SJ39U) JA Wheldon, c. 1902).

Habitat: On rubbish tips, waste ground, roadsides and pavements.

Comments: Native to eastern Asia, often being introduced in birdseed.

***Lepidium campestre* (L.) R. Br.**
Field Pepperwort



Status & distribution: Archaeophyte, [Near Threatened \(Red List for England\)](#); SCINWE, Scarce; scattered records from the arable areas where this species seldom persists, casual elsewhere and sometimes introduced via wildflower mixes.

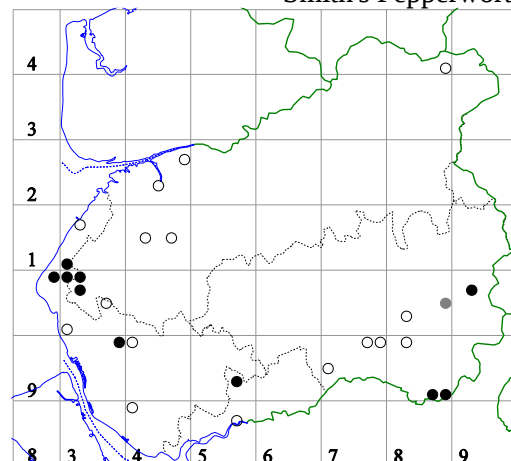
Former distribution: Once considered frequent at lower altitudes, although very few historic records have been traced.

Earliest record traced: Southport area (SD31, Glazebrook 1826).

Habitat: Arable fields and adjacent ditch banks, well-drained hedgebanks and disturbed ground.

Comments: Declining, now generally casual or introduced via wildflower mixes.

***Lepidium heterophyllum* Benth.**
Smith's Pepperwort





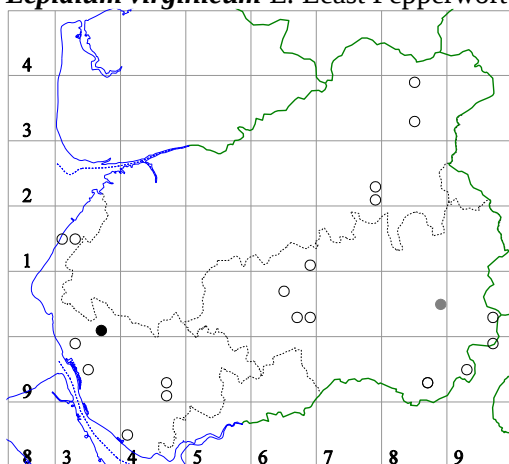
Woodvale DP Earl 2008

Status & distribution: Native, Least Concern (Red List for England); Scarce (5) being very local on sandy soils inland of Formby but local abundant along the eastern edge of Woodvale Aerodrome; a rare casual of disturbed ground inland; perhaps introduced with wildflower mixtures in some cases as at Oldham (SD90I) and along the Trans-Pennine Trail, Stockport (SJ89Q & SJ89V).

Habitat: Heaths, open sandy banks, rabbit warrens, cornfields, disturbed ground.

Comments: The inland records associated with the sowing on wildflower mixes require confirmation as some *Lepidium* plants found at sown areas have been determined as *Lepidium campestre*.

***Lepidium virginicum* L. Least Pepperwort**



Status & distribution: Neophyte-casual; Switch Island (SD3700, RF Goldchild, 2006).

Former distribution: An occasional casual mainly in the industrial areas.

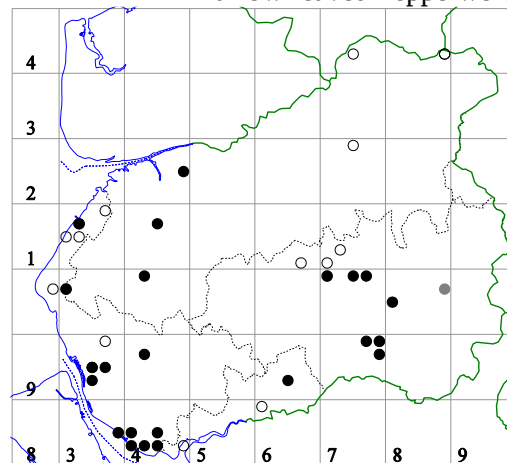
Earliest record traced: Railway banks at Walton (SJ39M, JA Wheldon, 1903).

Habitat: Tips, waste ground, railway banks.

Comments: Native to North America. Included here are records for *L. neglectum* Thell. and *L. densiflorum* Schrad.

***Lepidium ruderale* L.**

Narrow-leaved Pepperwort



Formby By-pass DP Earl 2009

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); Scarce (22), usually a short lived casual but increasingly found in towns, particularly in the Liverpool district and becoming established along salted roadsides.

Habitat: Roadsides, pavements, disturbed ground and tips.

***Lepidium africanum* (Burm. f.) DC.**

African Pepperwort

Status & distribution: Neophyte-casual; abundant at Micklehurst Tip (SD90R, Rev CE Shaw, 1961); Wellgate, Clitheroe (SD7441, MP Wilcox, 2010).

Habitat: Pavement weed and on a wool waste tip.

Comments: Native to southern Africa. Plants occurred at Micklehurst for several years prior to and including 1961.

***Lepidium perfoliatum* L.**

Perfoliate Pepperwort

Status & distribution: Neophyte-casual; Formby (SD20Y, R Craig, 1901); Blundellsands Shore (SJ39E, *Green* 1902); Nelson (SD83P, Anon., 1928); Hightown (SD20W, 1929, K) & Walton (SJ39M, 1930, K) JD Massey; Birkdale (SD31C, FW Holder & R Wagstaffe, 1930); Marshside (SD31P, *Green* 1933).

Habitat: Tips and waste ground.

Comments: Native to mainland Europe; introduced with grain waste.

***Lepidium latifolium* L.**

Dittander

Status & Distribution: Naturalised in South Lancashire; fluctuating in abundance along the M65 to the west of Burnley (SD73V, SD83B, & SD83G); M61 central reservation (SD7503, J Clarke, 2012); Ox Lane, Tarbock (SJ4688, S Fletcher, 2010).

Former distribution: By Bryn Hall (SD50V, *Gerard* 1633); Crosby (SJ39E, Dr. C Callingwood, 1860).

Habitat: Roadsides, railway banks, sidings, waste ground and pavements; formerly on coastal sand.

Comments: The M65 population probably arose by the motorway passing through railway sidings. The plants that once occurred at Crosby may possibly have been native.

***Lepidium graminifolium* L.**

Tall Pepperwort

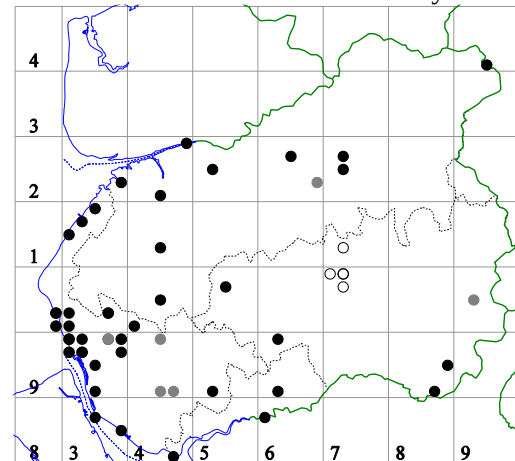
Status & distribution: Neophyte-casual; Bradshaw (SD71G, CA Howe, 1959); Spa Road, by Queen's Park, Bolton (SD70E, J Percy, 1984, det. EJ Clement).

Habitat: Disturbed ground and on slag heaps.

Comments: Native to southern Europe. Although recorded in *Savidge et al* 1963 for Latchford, Warrington that parish is south of the R. Mersey and is within vice-county 58.

Lepidium draba* L. ssp. *draba

Hoary Cress



Birkdale DP Earl 2008

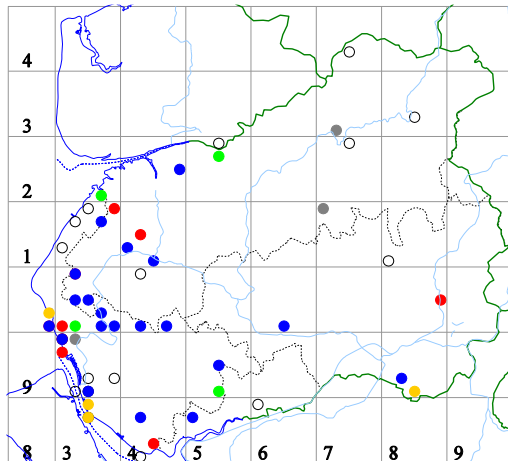
Status & distribution: Neophyte-naturalised; well established at several locations by the coast and along the estuaries, frequent to the north of Liverpool, occasional further inland.

Earliest record traced: Aintree (SJ39U, JA Wheldon, 1891).

Habitat: Sand-dunes, saltmarshes, railway banks, waste ground and tips.

Comments: Native to southern Europe.

***Lepidium coronopus* (L.) Al-Shehbaz**
Swine-cress



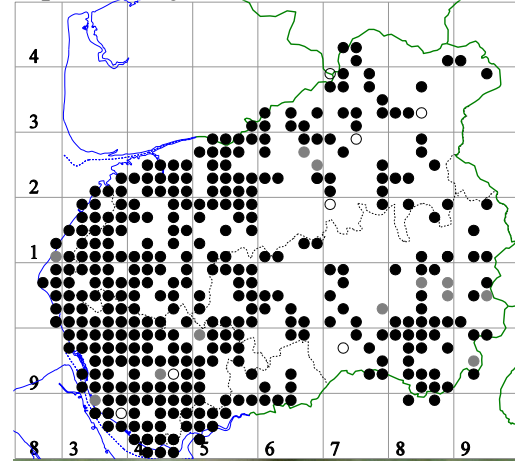
Blowick, Southport DP Earl 2008

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); Scarce (21), occasional in the coastal districts, far less frequent inland where plants are more casual in occurrence.

Habitat: Clay banks, sandy roadsides and field margins in arable districts, coastal promenades, disturbed ground, riverbanks, rail ballast and tips including historic records from cotton and wallpaper waste.

Comments: Appears to be declining and not persisting at some locations.

***Lepidium didymum* L. Lesser Swine-cress**



Crosby J Somerville 2008

Status & distribution: Neophyte-naturalised; considered rather rare by Travis but now widespread at lower altitudes.

Earliest record traced: Barton Moss (SJ79I, J Shaw, *Grindon* 1859).

Habitat: Along roadsides, on waste ground, in arable fields, on clay banks, river shingle and a garden and flowerbed weed.

Comments: Native to South America. There has been a dramatic increase in distribution in recent years and this species is now becoming a common weed.

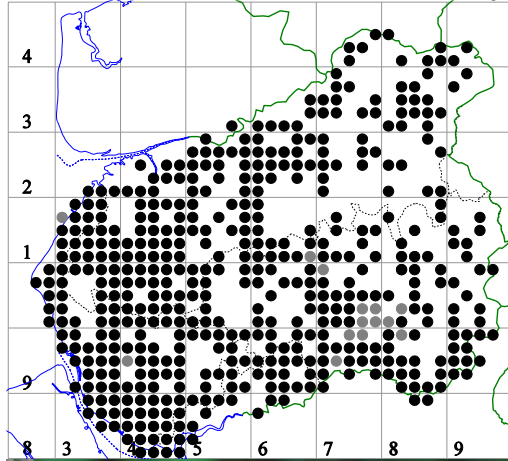
***Subularia aquatica* L.** Awlwort

Status & former distribution: Native, **Vulnerable (Red List for England)**; SCINWE, near Allerton (SJ48D, H Shepherd, 1812, *Dickinson* 1851).

Habitat: Assumed to be in a pool, possibly on an old heath.

Comments: An interesting record some distance from the North Wales and Lake District populations.

Lunaria annua L. Honesty



Formby DP Earl 2008

Status & Distribution: Neophyte-naturalised; widespread, readily escaping from cultivation and well established close to habitation, especially at lower altitudes.

Earliest record traced: Spring Lane (SJ6392, Warrington, D Nash, 1977).

Habitat: Hedgebanks, wood margins, on roadsides and waste ground.

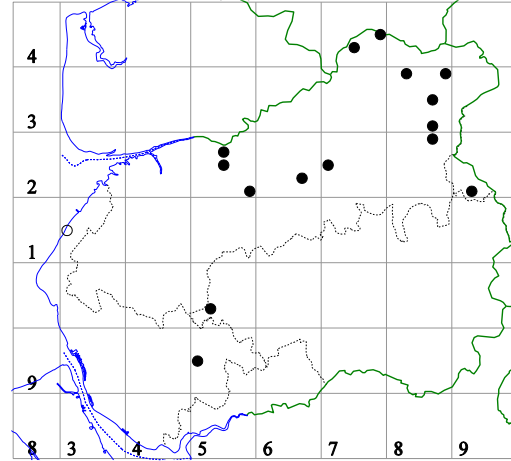
Comments: Native to south-eastern Europe.

Alyssum alyssoides (L.) L. Small Alison

Status & distribution: Neophyte-casual; Burnage (SJ89R, H Britten Jnr., 1923).

Comments: An impurity of imported grain. Probably native to central and southern Europe, North Africa and Asia Minor; where plants grow on rocks, stony ground, sandy soils and dry arable fields.

Aurina saxatilis (L.) Desv. Golden Alison



Status & distribution: Neophyte-naturalised; widespread but local, semi-established in the north-east of the vice-county.

Earliest record traced: Birkdale (SD31C, CVG Last, 1942, K).

Habitat: Walls, pavements and waste ground.

Comments: Native to mainland Europe.

Berteroa incana (L.) DC. Hoary Alison

Status & distribution: Neophyte-casual; Plantation south of railway (SD72E, P Jepson, 1998).

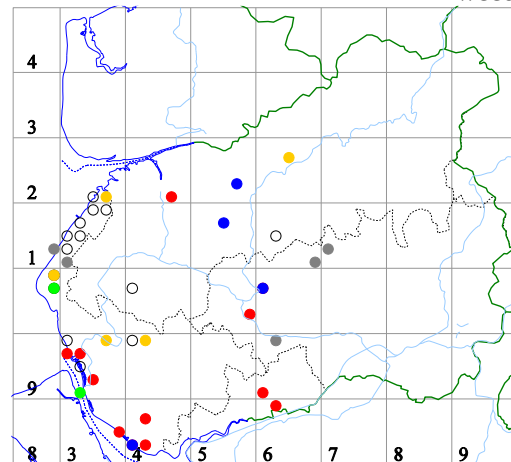
Former distribution: On an old fowl run at Birkdale (SD31H, C Bailey, 1907, MANCH); Birkdale (SD31H, H Britten Jnr., 1927); railway sidings, Speke Town (SJ48C, JD Massey & HF Dovaston, 1934); Flixton (SJ79M, T Saxon, n.d.).

Habitat: Waste and disturbed ground.

Comments: Native to mainland Europe.

Descurainia sophia (L.) Webb ex Prantl

Flixweed





Garston DP Earl 2006

Status & distribution: Archaeophyte-denizen; a frequent casual in the western regions.

Earliest records traced: Bootle, Crosby, Formby & Southport (*Dickinson* 1851).

Habitat: Waste ground, sand dunes, tips and roadside verges.

Comments: Thought to originate from impure grain and seed mixtures.

Descurania incana* ssp. *incisa (Engelm.) Kartesz & Gandhi

Mountain Tansy-mustard

Status & distribution: Neophyte-casual; Formby (SD20Y, JF Pickard *Botanical Exchange Club Report* 1930 p. 258).

Comments: Native to North America; cited in Travis as *Sisymbrium incisum* Engel.

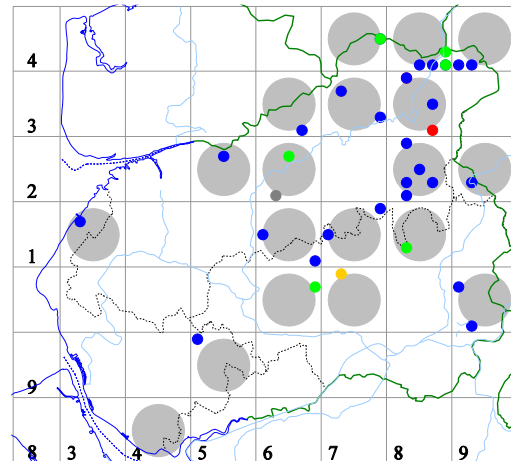
Pseudoturritis turrita (L.) Al-Shehbaz

Tower Cress

Status & distribution: Neophyte-casual; Liverpool (JW Burton, 1875, BON).

Arabis caucasica Willd. ex Schldl.

Garden Arabis



Birkdale DP Earl 2008

Status & distribution: Neophyte-naturalised; occasional as a semi-established plant in the particularly in the eastern districts.

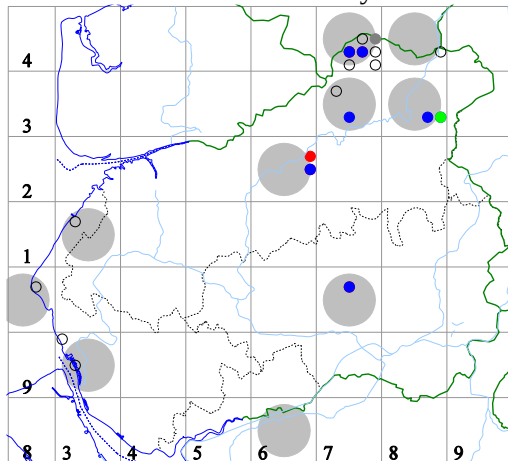
Earliest record traced: South-east of Liverpool (SJ48, JW Burton, 1875, GLAM, det. TCG Rich).

Habitat: Walls, pavements, and tips, waste ground.

Comments: Native to southern Europe.

***Arabis hirsuta* (L.) Scop.**

Hairy Rock-cress



Status & Distribution: Native, **Near Threatened (Red List for England)**; SCINWE, Scarce (8) but still present in the Clitheroe district at Coplow and Salthill Quarries (SD74L); established on artificial substrates at Nob End (SD70N); Eccleshill Old Iron Works (SD62X, PJ, 1997); Blackburn Goods Yard (SD62Y, P Jepson, 1996); limestone chippings, Hurstwell Valley (SD83W, P Hornby, 2004).

Habitat: Walls and rocks on the limestone, introduced to paths with limestone chippings, alkaline waste beds; formerly on sand-dunes -1900.

Comments: Native and adventive; there are no recent records from the coast.



Todd Lane DP Earl 2020

Status & distribution: Neophyte-naturalised; widespread but seldom truly naturalised, sometimes a short-lived casual.

Earliest record traced: (SD72, 1987).

Habitat: Sand-dunes, walls, pavement weed, waste ground and tips close by to habitation.

Comments: Native to south-eastern Europe.

***Drabella muralis* (L.) Fourr**

Wall Whitlowgrass

Status & former distribution: Casual in South Lancashire; Walton (SJ39M, Herbarium Shillito, 1811) & Broad Oak, Accrington (SD7628, J Dugdale, 1851).

Habitat: Generally, a colonist of walls, open stony ground and pavements.

***Erophila majuscula* Jordan**

Hairy Whitlowgrass

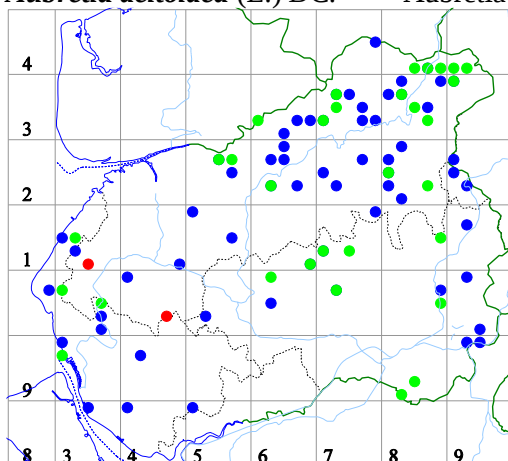
Status & former distribution: Native, Nationally Scarce, Least Concern (Red List for England); SCINWE, Ainsdale (SD31B, JA Wheldon, 1912, OXF, det. TCG Rich).

Habitat: Sand-dunes.

Comments: Possibly overlooked. It is likely that this species may still occur in South Lancashire and should be looked for on the sand-dune system.

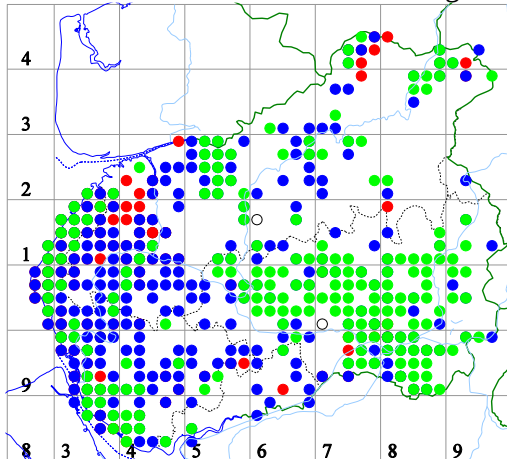
***Aubretia deltoidea* (L.) DC.**

Aubretia



***Erophila verna* (L.) DC.**

Common Whitlowgrass



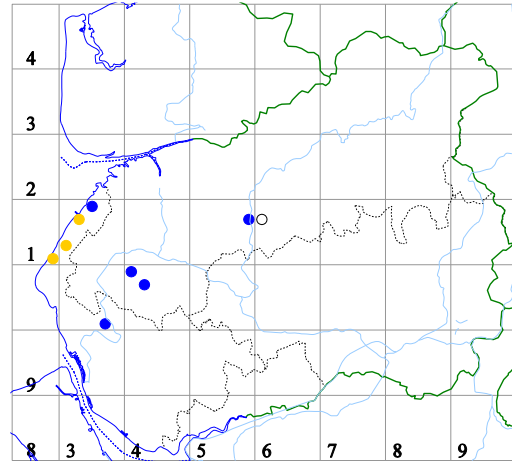
Southport DP Earl 2008

Status & distribution: Native, Least Concern (Red List for England); Axiophyte, widespread, most frequent in the west.

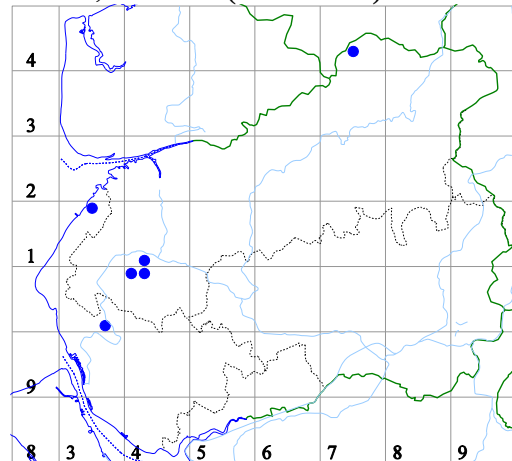
Habitat: Sand-dunes, lawns on sandy soils, garden weed, old tarmac, pavements, along roadsides and on wall tops.

Comments: Spreading inland from the coastal stronghold.

The variety var. *praecox* has been recorded from along the coast; about Maghull (RF Goodchild) and Ormskirk (MP Wilcox); Chorley (SD51Y, DM Downing, 2003) and Limbrick (SD61D, Sir EJ Salisbury, 1901, K).

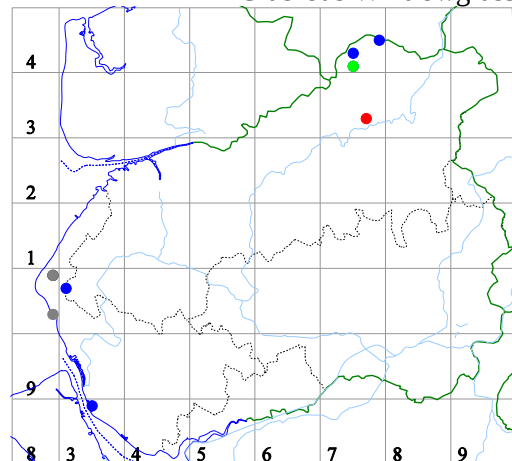


var. *verna* has been recorded from Maghull (SD30Q, RF Goodchild, 2005); Southport, Burscough, Ormskirk and Salthill, Clitheroe (MP Wilcox).



***Erophila glabrescens* Jordan**

Glabrous Whitlowgrass





Clitheroe DP Earl 2008

Status & distribution: Native, Nationally Uncommon, Least Concern (Red List for England); SCINWE, Scarce; (SD73R, SJ Bungard, 1997); Clitheroe (SD7442, SJ Bungard, 2000 & SD7441, MP Wilcox, 2007); Downham (SD7844, DP & J Earl, 2012); Liverpool (SJ38P, TCG Rich, 2002); Watchyard Lane, Formby (SD3007, PH Smith & MP Wilcox, 2007).

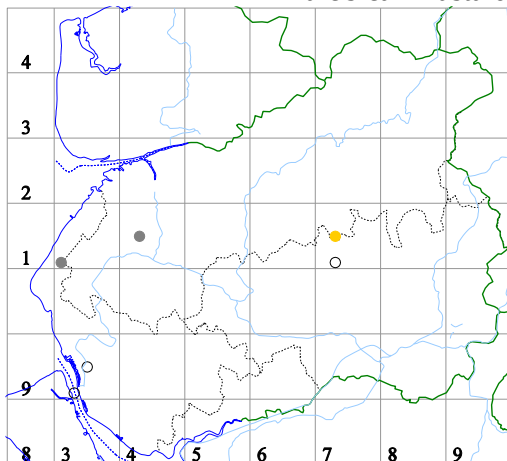
Former distribution: Freshfield dunes (SD20Z, LIV, MANCH); Hightown (SD20W, Anon., 1960, LIV).

Habitat: Pavements, sand-dunes and limestone rocks.

Comments: This is perhaps an under-recorded taxon that may be locally frequent in some districts.

***Conringia orientalis* (L.) Dumort.**

Hare's-ear Mustard



Status & distribution: Neophyte-casual; Southport (SD31, Rev. WM Hind, 1843, TCD); in an oat-field, Walton (SJ39M, JA Wheldon, 1892, BEL, det., TCG Rich); Astley Bridge (SD71F, *Greenlees & Holden* 1920); Woodvale (SD31A, *Green* 1933); Martin Mere (SD41H, *Green*

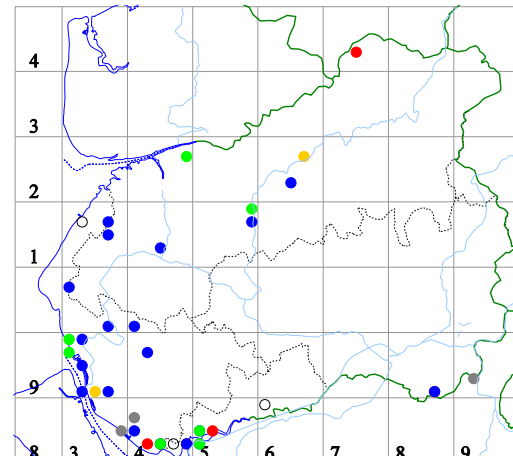
1933); introduced with landscape soil, Horrabin Lane (SD71H, AJ Percy, 1978).

Habitat: Disturbed and arable ground.

Comments: Native to the eastern Mediterranean; once considered a frequent casual and more records may be traced in due course.

***Diplotaxis tenuifolia* (L.) DC.**

Perennial Wall-rocket



Botany Bay DP Earl 2020

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); mainly western with several established populations about Liverpool and Widnes, a scarce adventive further inland.

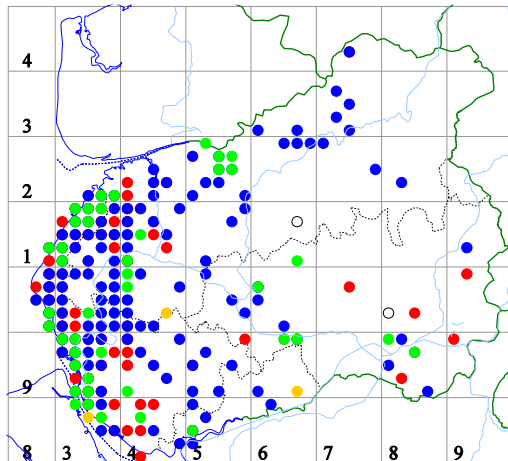
Earliest record traced: Southport area (SD31, J Hardy, 1883, LTR, det., TCG Rich).

Habitat: Roadsides and waste ground.

Comments: Increasing but less frequent than *Diplotaxis muralis*.

***Diplotaxis muralis* (L.) DC.**

Annual Wall-rocket



Bamber Bridge DP Earl 2020

Status & distribution: Neophyte-naturalised; common on sandy soils on the coastal plain especially within towns, occasional to rare elsewhere.

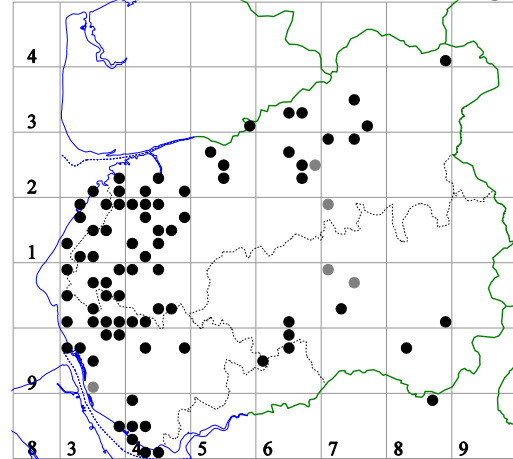
Earliest record traced: Formby (SD20Y, Fisher & Webb 1872).

Habitat: Waste ground, pavements, garden weed, sand-dunes, and in the littoral zone; less frequent as an arable weed.

Comments: This species is steadily increasing from the coastal strongholds to sites further inland.

***Brassica oleracea* L.**

Cabbage



Clieve Hills DP Earl 2008

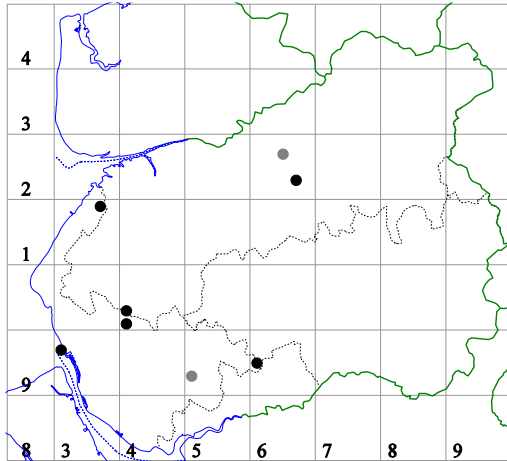
Status & distribution: Casual in South Lancashire; frequent, often a relic of cultivation in the arable districts near Southport, occasional elsewhere.

Earliest record traced: Southport (SD3216, E Stones, 1963).

Habitat: Arable fields, roadsides, waste ground, tips.

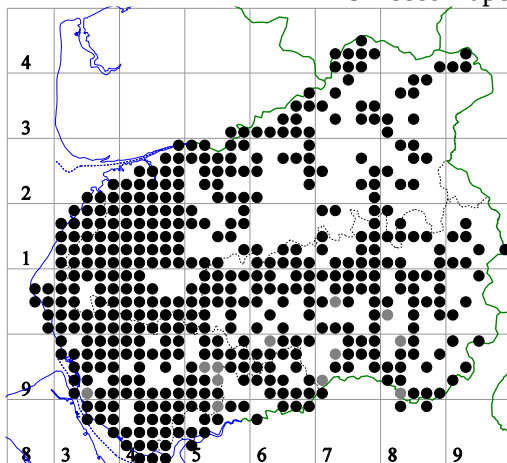
Comments: Far less common along roadsides than *B. napus* (with which this species can be confused) and thus *B. oleracea* may be over-recorded to some extent.

Most records are for var. *capitata* L. (Cabbage)



There are records for var. *botrytis* (Cauliflower, Broccoli) from waste ground, Litherland (SJ3397, PG Gutteridge & PR Tomlinson, 1981) and var. *gemmifera* Brussels-sprout) from the M6, Winwick (SJ6094, DP & J Earl & P & A Bowdler, 2012).

***Brassica napus* L. *oleifera* (DC.) Metzger**
Oil-seed Rape



Southport DP Earl 2008

Status & distribution: Neophyte-casual; formerly occasional but now a widespread casual particularly in the lowlands with

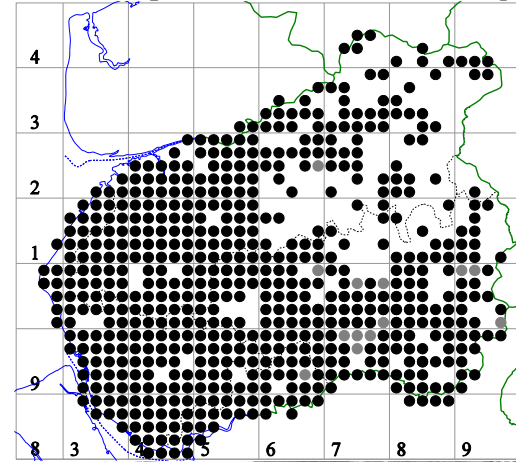
populations extending along the network of main roads in the north-east.

Earliest records traced: Numerous records for the 1950 10km listings).

Habitat: Roadsides, arable fields, waste ground, tips and riverbanks.

Comments: Particularly common along trunk roads and motorways; greatly increased in recent times with the intensive cultivation by arable farmers.

***Brassica rapa* L.** Turnip



Lower Penwortham DP Earl 2006

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); widespread especially at lower altitudes.

Earliest record traced: Formby Warrens (SD20T, W Harrison & WS Skelthorne Dickinson 1851).

Habitat: Waste ground, arable fields, roadsides, tips and riverbanks.

Comments: Far more common along riverbanks than *B. napus*. At one time this species was sown on the Formby sand-dune warrens as forage for the farmed rabbits.

Brassica tournefortii Gouan Pale Cabbage

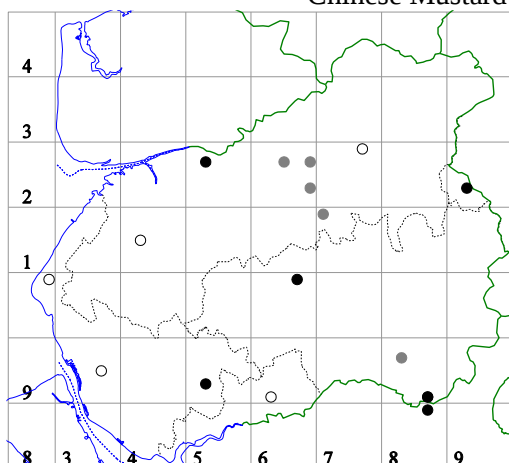
Status & distribution: Neophyte-casual; field once used as a poultry run, Stanworth (SD62H, CA Howe, 1959); Micklehurst Tip (SD90R, Rev CE Shaw, 1960); sewage solids by the Manchester Ship Canal (SJ79N, Rev CE Shaw, n.d.).

Habitat: Wool tip, poultry run, sewage waste.

Comments: Native to the Mediterranean.

Brassica juncea (L.) Czernj.

Chinese Mustard



Status & distribution: Neophyte-casual; Heaton Mersey bleach works (SJ8690, AR Franks, 1996) & Rumworth Lodge (SD60U, J Lowell, 1998) det., TGC Rich; near Stockport (SJ8789, B Shaw, 2007); canal side, Gauxholme (SD9323, DP & J Earl, 2010); Preston Junction LNR (SD5327, DP Earl & M Chappell, 2012, conf. TGC Rich); Sutton Leach (SJ5292, Liverpool Botanical Society, 2012).

Former distribution: Tip at Heaton Mersey (SJ89Q, JE McDonald, 1908); Martin Mere district (SD41H, FW Holder, 1937); at intervals along the Cheshire Lines railway from Walton-on-the-Hill to Padgate (1940 *Stanfield N.W.N.* 15 p. 240); Mill Tip, Accrington (SD72U, A Hitchon, 1964); Formby Tip (SD20Z, J Hodgson, 1966); Darwen tip (SD7019, E Stones, 1972 & 1979); demolished mill at

Livesey Fold (SD6822, P Jepson & E Stones, 1976); river shingle, Pleasington Playing Fields (SD6426, PJ, 1979); Blackburn (SD6826, P Jepson 1980).

Habitat: Railway lines, rubbish tips, textile tips, disturbed ground.

Comments: Native to southern and eastern Asia. It is plausible that in the case of the Cheshire Lines plants slow spillage of freight train cargo may account for the great quantity of plants occurring.

Brassica carinata A. Braun

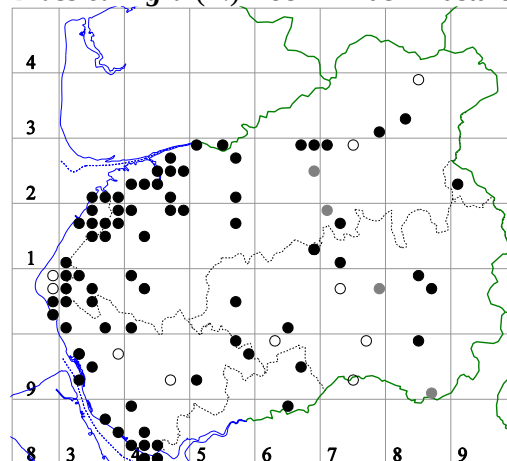
Ethiopian Rape

Status & distribution: Neophyte-casual; Seaforth Docks Tip, by Gladstone Dock (SJ39I, V Gordon, 1954, RGN, JE Lousley, 1958, RGN).

Habitat: Waste tip adjoining sand-dunes.

Comments: Native to Abyssinia. Plants increased in abundance at Seaforth and were known to occur until at least 1961.

Brassica nigra (L.) Koch Black Mustard



Manchester J Somerville 2008

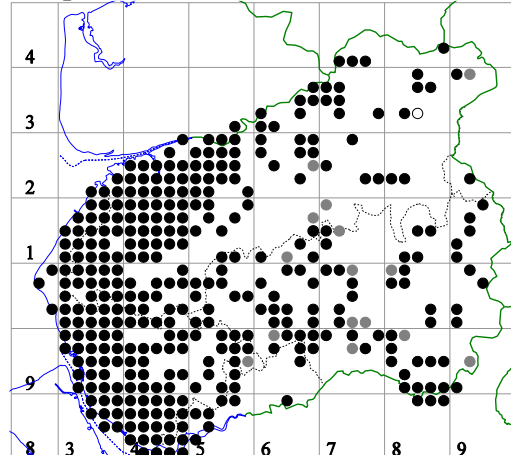
Status & distribution: Native, Least Concern (Red List for England), Axiophyte; mainly coastal, particularly on

land close by to rivers and ditches, very local and usually a casual further inland.

Habitat: Estuarine riverbanks, clay cliffs by the Mersey, ditch sides, arable fields and waste ground.

Comments: Some inland records might be errors for *Hirschfeldia incana* especially if recorded from industrial areas.

***Sinapsis arvensis* L.** Charlock



Southport DP Earl 2008

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); common in the arable districts of the west, locally frequent but more casual in lowland areas and industrial valleys to the east.

Habitat: Arable fields, roadsides, waste ground and riverbanks.

Comments: Varieties recorded historically include var. *mesopotamica* Burnley (SD83L, CRR, 1926, det. K); var. *turgida* canal bank, Seaforth (SJ39I, HSF, 1872).

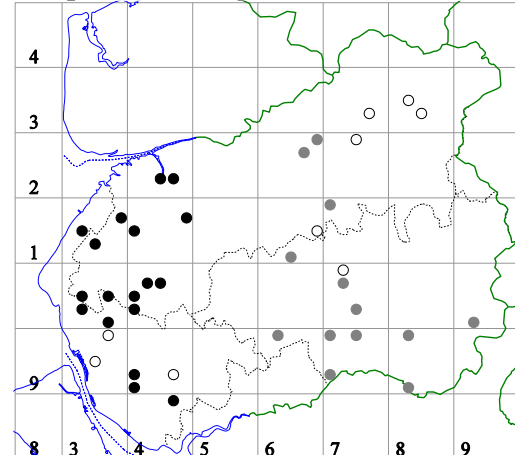
***Sinapsis arvensis* L. ssp. *schkuhriana* L.** (Reichb.) Hageng.

Status & distribution: Neophyte-casual; Hightown (SD20W, June 1913, WG Travis, teste AB Jackson).

Habitat: Waste ground.

Comments: A rare casual that requires further research.

Sinapsis alba* L. ssp. *alba White Mustard



Status & distribution: Archaeophyte-colonist, Least Concern (Red List for England); most frequent in the lowlands especially in the west. There are unlocalised 10km records for SD51, SD60, SD80 & SD82.

Habitat: Waste ground, arable fields and tips.

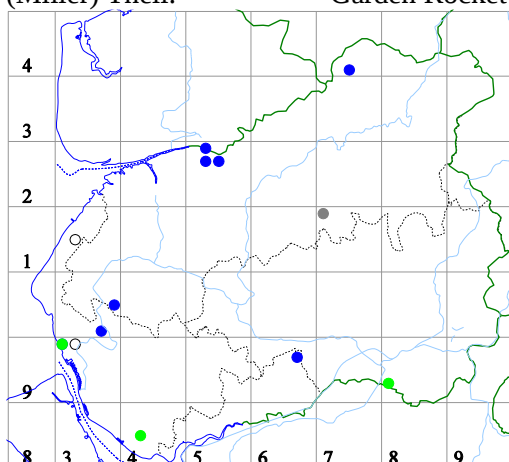
Comments: A casual and relic of cultivation, probably declining.

***Sinapsis alba* L. ssp. *dissecta* (Lag.)**

Bonnier

Status & distribution: Neophyte-casual; Burnley district (SD83, BSBI Atlas Update Project, data class pre-1970).

Eruca vesicaria* (L.) Cav. ssp. *sativa
(Miller) Thell. Garden Rocket



Culcheth DP Earl 2009

Status & distribution: Archaeophyte-cultivated, casual; King Street, Clitheroe (SD7441, MP Wilcox, 2006); Switch Island (SD3700, 2006) & Aughton (SD3804, 2007) RF Goodchild; farm tip, Culcheth (SJ6796, DP Earl & P Bowdler, 2009); Preston Junction Nature Reserve (SD5327, SD5328, SD5427, DP Earl, 2011-2012); Crosby (SJ3098, DP & J Earl, 2012).

Former distribution: Liverpool (SJ39, Rev. WM Hind, 1853, TCD, det., TCG Rich); on dumps at Ford (SJ39J, JA Wheldon, 1911 & 1913); Birkdale (SD31H, FW Holder & R Wagstaffe); Crown Wallpaper Tip (SD7019, Rev CE Shaw & JE Lousley, 1959, RGN, det., TCG Rich); on an old chicken run, Preston (SD52, E Hodgson, 1965, RGN, det., TCG Rich).

Habitat: Disturbed ground, poultry runs and tips.

Comments: Native to southern Europe.

***Erucastrum gallicum* (Willd.) O. Schulz**
Hairy Rocket

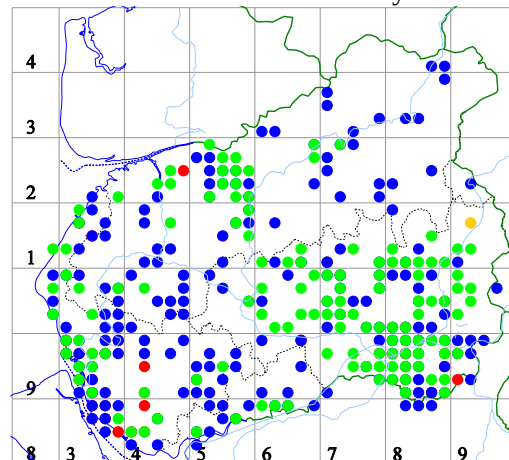
Status & distribution: Neophyte-casual; plant nursery, Walton-le-Dale (SD5627, P Jepson, 1997, det., TGC Rich, DP & J Earl, 2007); Seaforth Nature Reserve (SJ3197, comm. SJ White, 2003); Switch Island (SD3600, RF Goodchild, 2006).

Former distribution: Burnage (SJ89R, H Britten Jnr., 1923, MANCH).

Habitat: Disturbed ground.

Comments: Native to mainland Europe.

***Hirschfeldia incana* Moench**
Hoary Mustard



Farington DP Earl 2020

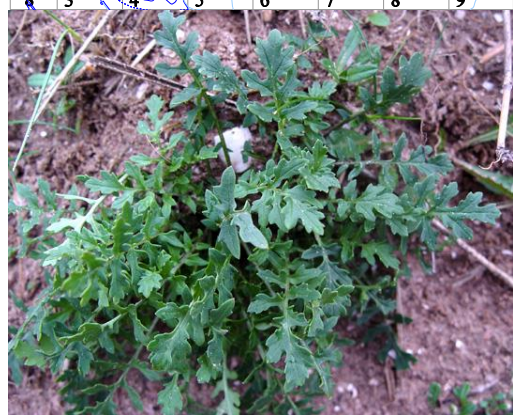
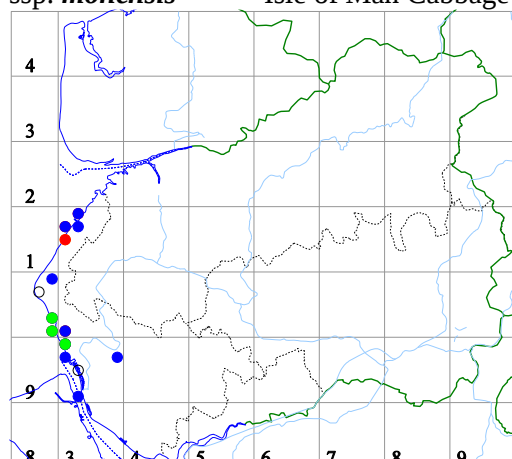
Status & distribution: Neophyte-naturalised; increasing in the lowlands particularly in cities and towns and as a colonist of trunk roads. Plants are now common in some urban areas of Liverpool and Manchester; historically considered to be a casual species.

Earliest record traced: Astley Bridge (SD71F, Greenlees & Holden 1920).

Habitat: Waste ground, roadsides and tips.

Comments: Some records for *Brassica nigra* may be this species.

***Coincya monensis* (L.) Greuter & Burdet**
ssp. ***monensis*** Isle of Man Cabbage



Ainsdale J Somerville 2008

Status & distribution: Native, Endemic, Nationally Scarce, UKPS, Least Concern (Red List for England); Scarce (8) with localised populations along the coastal dune system from Crosby to Southport with an inland record probably casual record from Fazakerley (SJ39Y, VG, 2000).

Former distribution: First recorded from the shore of the Mersey near Liverpool, *Smith* (1828) and formerly known from Bootle (SJ39H) and Formby (SD20T) *Dickinson* (1851).

Habitat: Sand-dunes; the inland record may have been from disused railway sidings.

Comments: The two largest extant populations at Crosby Marine Park and Hall Road originated from translocations in 1992.

***Coincya monensis* (L.) Greuter & Burdet**
ssp. ***chieranthos*** (Vill.) Aedo, Leadlay & Muñoz Garm. Wallflower Cabbage

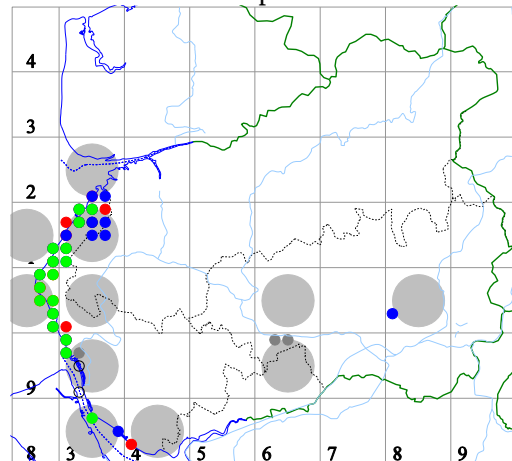
Status & distribution: Neophyte-casual; Bickershaw Colliery workings (SD60F, EM Stephenson & A Greatrex, 2003); three plants at the edge of LWT car park, Cuerden (SD5623, DP Earl & EF Greenwood, 2014).

Former distribution: Garston Docks (SJ38X, AA Dallman, 1909); Hightown (SD20W, CK Jones-Parry, 1962, LIV).

Habitat: An adventive on waste ground, ballast and colliery waste.

Comments: Native to western mainland Europe. Note that this species closely resembles *D. tenuifolia* with which it might have been confused.

***Cakile maritima* Scop.** Sea Rocket



Blowick, Southport DP Earl 2008

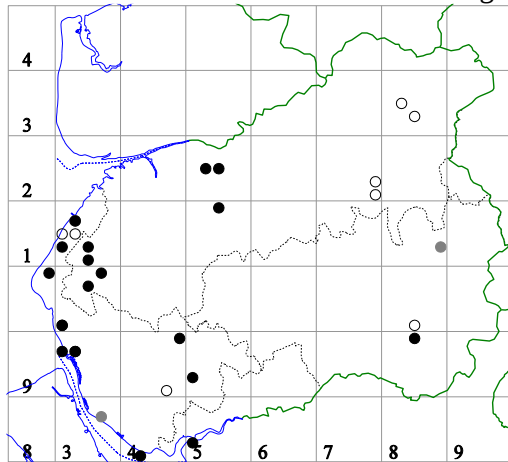
Status & distribution: Native, Least Concern (Red List for England), Axiophyte; common along the coast from Seaforth to Churchtown; localised along the Mersey estuary; a rare adventive inland with a recent record from Prestwich sewage works (SD8003, I Boote, 2010).

Former distribution: Lost from some locations developed as docklands. Inland casual records from an ash tip at Pennington (SJ69P, T Edmondson, 1947); (SD60, Rev CE Shaw, 1956).

Habitat: Embryo sand-dunes, frontal sand-dunes, sandy shores, cockleshell shingle and sandy waste ground near the sea.

Comments: The SD60 record may have been from imported coastal sand used in the iron industry.

***Rapistrum rugosum* (L.) Bergeret**
Bastard Cabbage



Widnes DP Earl 2009

Status & distribution: Neophyte-casual; most frequent in the western lowlands, a scarce casual elsewhere.

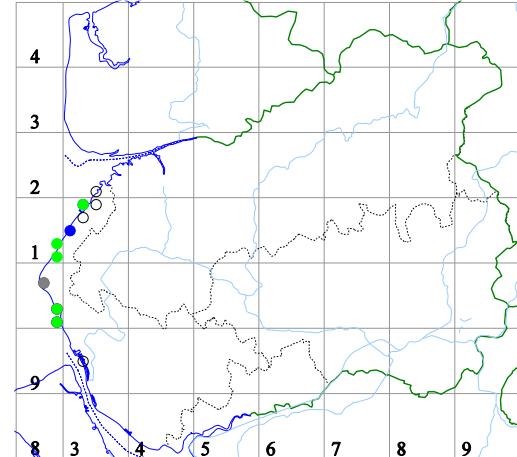
Earliest record traced: Whiston, waste ground (SJ49Q, Mrs Allen & Rev M Toohey, 1902) with a record from near

Liverpool (Rev S Gasking, 1902) possibly being from the same location.

Habitat: Disturbed ground, arable field edges and tips.

Comments: Plants can persist at locations in the west for a few years.

***Crambe maritima* L.** Sea-kale



Hall Road DP Earl 2008

Status & distribution: Native, Least Concern (Red List for England); Rare (2) and perhaps Critically Endangered at the vice-county level with localised plants along the coast between Hall Road (SD20V) and Hightown (SD20W) where it is thought to have been discovered by V Gordon in 1987; a recent arrival to Birkdale Green Beach (SD3014, PH Smith, 2010) as a plant with two small leaves; a solitary but short-lived casual plant at Southport Sands (SD3418, DP & J Earl, 2009).

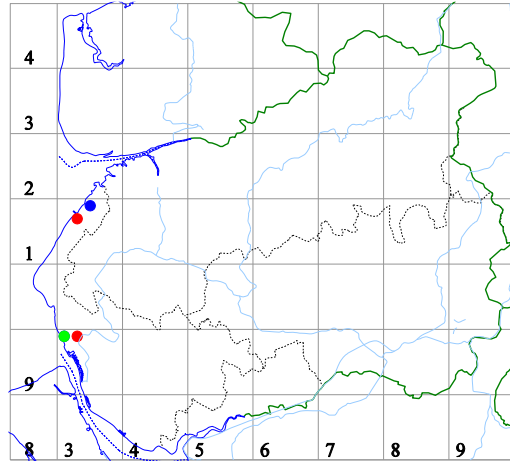
Former distribution: Bootle (SJ39H, J Dickinson, 1839); Formby Point (SD20T, Liverpool Botanical Society, 1906); Marshside (SD31P and/or SD32K, WG Travis, 1927).

Habitat: An artificial embankment predominately hard-core created by the

tipping of World War II blitz rubble; formerly on low sandy banks on the edge of saltmarshes and sand-dunes.

***Crambe cordifolia* Steven**

Greater Sea-kale



Marshside DP Earl 2005

Status & distribution: Neophyte-naturalised; near allotments, Rimrose Valley (SJ3298, V Gordon, 1988); near Victoria Park, Southport (SD3216, V Gordon, 1993); mounds of sand by site of Southport outdoor swimming pool (SD3217, 1995); Hesketh Road, Marshside (SD341P, 2000-2010); Crosby (SJ3198, 2012 onwards).

Habitat: Sandy soils by the sea, usually where tipping has taken place.

Comments: Native to the Caucasus.

Plants are still grown in the Rotten Row flowerbeds at Southport.

***Crambe hispanica* L. Abyssinian Mustard**

Status & distribution: Neophyte-casual; near Highfield Moss (SJ6195, P Grimshaw, 2013).

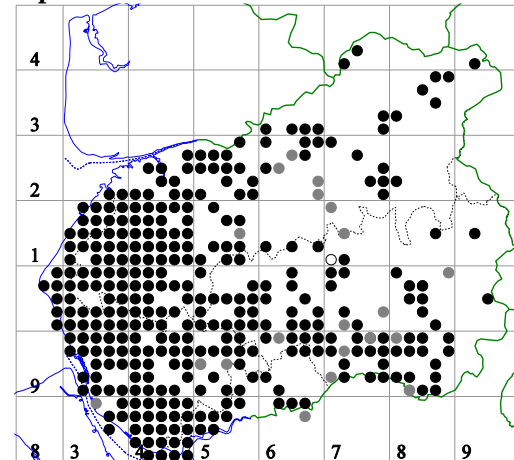
Habitat: Corner on an Oil-seed Rape field.

Comments: Native to South-east Europe, western Asia and Africa.

***Raphanus raphanistrum* L. ssp.**

raphanistrum

Wild Radish

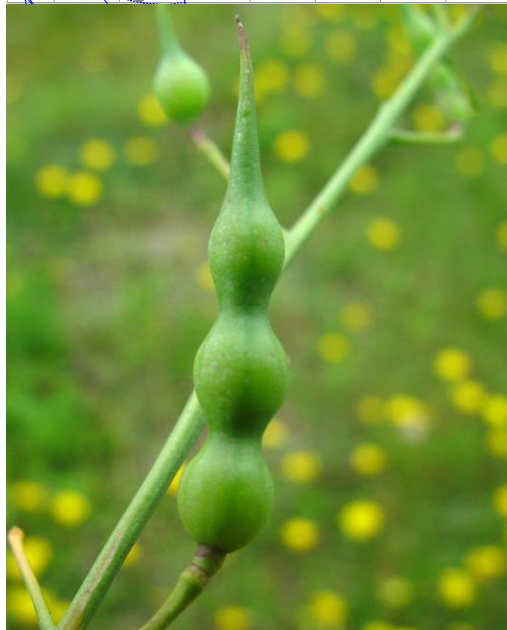
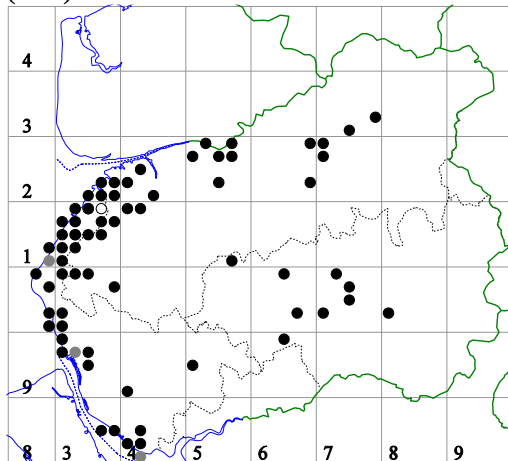


Trace details

Status & distribution: Archaeophyte-colonist, Least Concern (Red List for England); common in the lowland arable districts of the west, more casual in urban areas and in the north-east Lancashire valleys.

Habitat: Arable fields, disturbed and waste ground, refuse tips and roadsides.

Raphanus raphanistrum* ssp. *maritimus
(Sm.) Thell. Sea Radish



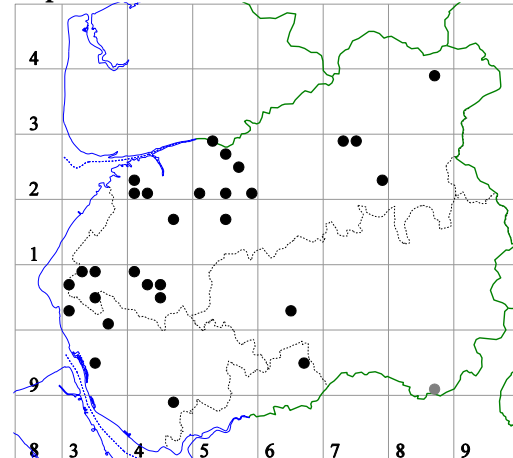
Southport DP Earl 2008

Status & distribution: Native, Least Concern (Red List for England), Axiophyte; Locally abundant along the coast, increasing inland as an accidental introduction.

Habitat: Sand-dunes and disturbed sandy soils.

Comments: Plants occur inland where coastal sand, often rich in sea-shell content, has been used in path and road construction work.

***Raphanus sativus* L.** Garden Radish



Bamber Bridge DP Earl 2011

Status & distribution: Archaeophyte-cultivated, casual or relic of cultivation; occasional in arable and urban areas. There is an un-localised record for SD61.

Earliest record traced: Didsbury Tip (SJ89Q, E Stones, 1974).

Habitat: Waste land and farm tips especially in arable districts; refuse tips.

Comments: Possibly native to the Mediterranean region. It is thought that hybrid plants might have occurred with *Raphanus raphanistrum* (Wild Radish) in fields at Holland's Farm, Westhead (SD4306, West Lancashire Wildlife Bioblitz, 2012).

***Sisymbrium strictissimum* L.**

Perennial Rocket

Status & distribution: Neophyte-naturalised; first discovered on the banks of the Mersey, Stretford (SJ79W, H Hyde, 1896, *Journal of Botany* 1898, MANCH) and later at the Mellard & Coward bleach-works, Heaton Mersey (SJ89Q, JE McDonald, 1890 & 1905, MANCH, E). Plants are still occasionally found in the Heaton Mersey area with recent records

from between Cheadle Bridge and Stockport Centre (SJ8689 & SJ8790, D Bishop, 2010).

Habitat: Disturbed ground and riverbanks.

Comments: Native to mainland Europe.

Sisymbrium irio L. London-rocket

Status & distribution: Neophyte-casual; near Southport (SD31, Miss Todd, *Botanical Exchange Club Report* 1932 p. 189); Stake Hill Wool Tip (SD80Z, Liverpool Botanical Society, det. Rev CE Shaw, 1960).

Habitat: Waste ground and a wool tip.

Comments: Native to mainland Europe.

Sisymbrium loeselii L.

False London-rocket

Status & distribution: Neophyte-casual; (SD73C, SJ Bungard, 1995).

Habitat: Disturbed ground.

Comments: Native to mainland Europe. It is not known whether the record has been validated.

Sisymbrium volgense M. Bieb. ex Fourn.

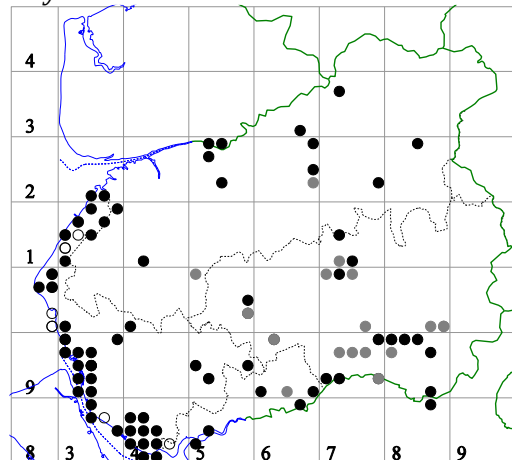
Russian Mustard

Status & distribution: Neophyte-casual; Leeds & Liverpool Canal at Sandhills (SJ39L, V Gordon 1997-1998, LIV); casual at Ox Lane, Tarbock (SJ4688, S Fletcher, 2010).

Habitat: Disturbed ground.

Comments: Native to Russia.

Sisymbrium altissimum L. Tall Rocket



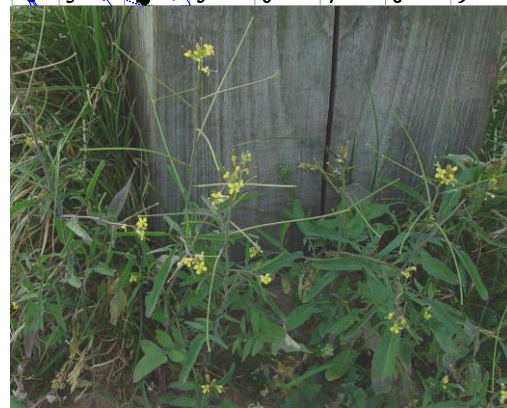
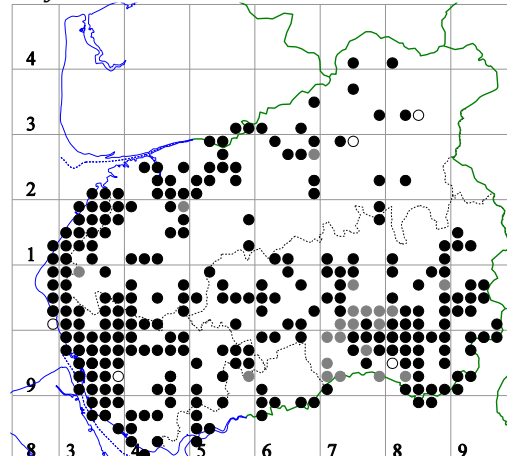
Status & distribution: Neophyte-casual; frequent in South Liverpool, Liverpool Docklands and along the coast to Crossens, locally frequent in urban

Manchester and about industrial towns, generally at lower altitudes.

Earliest record traced: Crosby (SJ39E, HH Higgins, c. 1858).

Habitat: Waste ground, tips, industrial areas, and roadsides.

Sisymbrium orientale L. Eastern Rocket



Ainsdale DP Earl 2008

Status & distribution: Neophyte-naturalised; locally common about towns, cities and industrial areas especially in Merseyside and Greater Manchester.

Earliest record traced: West Derby (AA Dallman, 1903, LIV).

Habitat: Waste ground, tips, pavements and roadsides.

Comments: Native to mainland Europe.

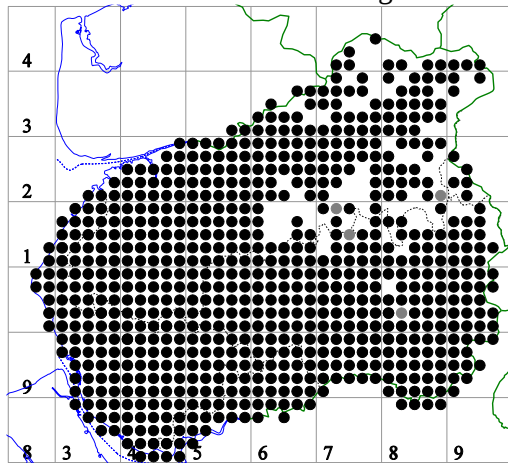
Sisymbrium erysimoides Desf.

French Rocket

Status & distribution: Neophyte-casual; location unknown.

Comments: Native to the western Mediterranean. The record is from the Stace Checklist and the full details have yet to be traced, possibly conspecific with the following taxa.

Sisymbrium officinale (L.) Scop.
Hedge Mustard



Preston Junction DP Earl 2008

Status & distribution: Archaeophyte-denizen, Least Concern (Red List for England); common at lower altitudes and the hill district valleys, but far less frequent on the higher ground.

Habitat: Waste ground, pavements, arable fields, roadsides and hedgebanks.

Sisymbrium polyceratium L.

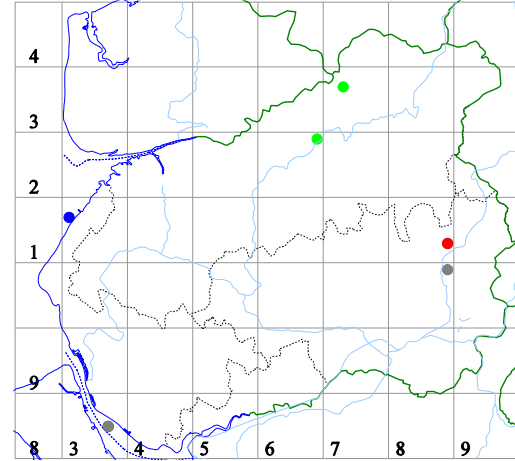
Horned Mustard

Status & distribution: Neophyte-casual; Crown Wallpaper Tip (SD7019, 1959, CR Lancaster, RGN & BW Fox, BON).

Habitat: Wallpaper waste tip.

Comments: Native to southern Europe, Egypt, etc.

Isatis tinctoria L. Woad



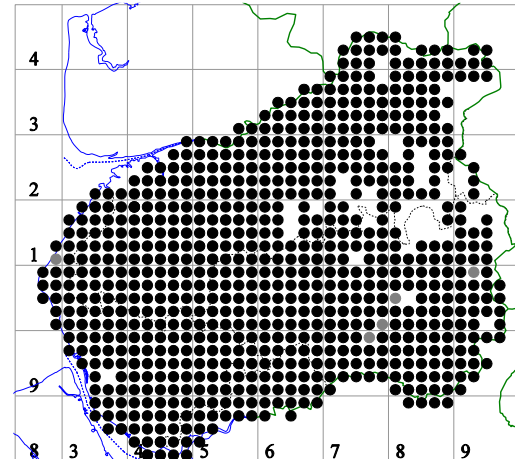
Status & distribution: Archaeophyte-cultivated, Least Concern (Red List for England), usually casual; two plants near track from Oxford Road to Birkdale Dunes (SD3116, PH Smith, 2012); persisting at Whalley Abbey (SD7336, DP & J Earl, 2021 & madoukie, 2023); 3 plants by Blackburn Bus Station (SD6828, D P & J Earl, 2020).

Former distribution: Camp Hill, Liverpool (SJ38S, WG Travis & JD Massey, 1942, LIV); Stake Hill Wool Tip (SD80Z, Rev CE Shaw, 1960); Rochdale Tip (1960, Shaw 1971); three plants, site of a demolished factory, Michel Hey, Rochdale (SD81W, AR Franks, 1992).

Habitat: Tips and waste ground.

Comments: Native to mainland Europe. A record from the School of Pharmacy, Liverpool University (1893, PH Marsden, LIV) may be a specimen relating to research.

Alliaria petiolata (M. Bieb.) Cavara & Grande
Garlic Mustard



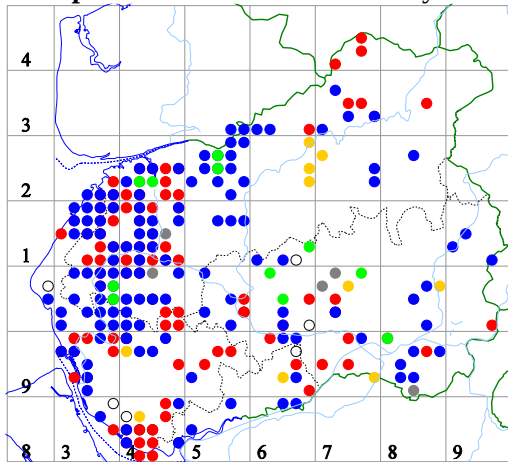


Ormskirk PS Gateley 2008

Status & distribution: Native, Least Concern (Red List for England); generally common at the lower altitudes but less frequent in the hill districts. Possibly absent from some densely urban areas such as central Liverpool.

Habitat: Roadsides, hedgerows, woods, streambanks and ditch sides.

Thlaspi arvense L. Field Penny-cress



Bamber Bridge DP Earl 2020

Status & distribution: Archaeophyte-colonist, Least Concern (Red List for England); most frequent and sometimes locally abundant in the arable regions, especially in the market gardening districts of the west, occasional and often casual elsewhere.

Habitat: Arable fields and disturbed ground.

Comments: Appears to be declining.

Microthlaspi perfoliatum (L.) F.K. Mey.

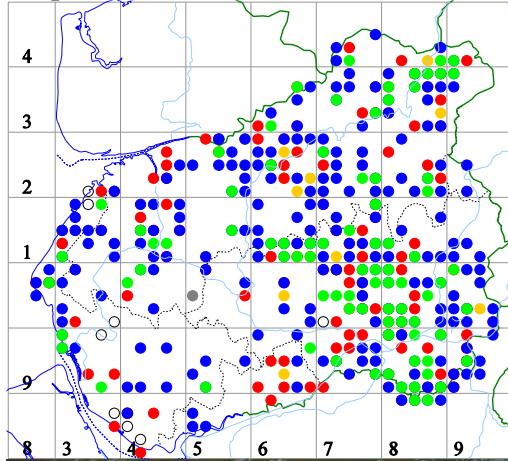
Perfoliate Penny-cress

Status & distribution: Casual in South Lancashire; Bradford Park, Leverhulme (SD70J, T Greenlees, 1905, *Greenlees & Holden* 1920, BON).

Habitat: Slag heaps.

Comments: Note that details on the Bolton Museum database indicate that the specimen was collected in 1937 but this may however be an accession date.

***Hesperis matronalis* L.** Dame's-violet



Padiham DP Earl 2008

Status & distribution: Neophyte-naturalised; now widely naturalised and most prolific along the river systems.

Earliest record traced: Near Allerton Hall (SJ49C, J Dickinson, 1849, LIV).

Habitat: Riverbanks, roadsides, waste ground and tips.

Comments: Neophyte, native to mainland Europe.

***Bunias orientalis* L.** Warty Cabbage

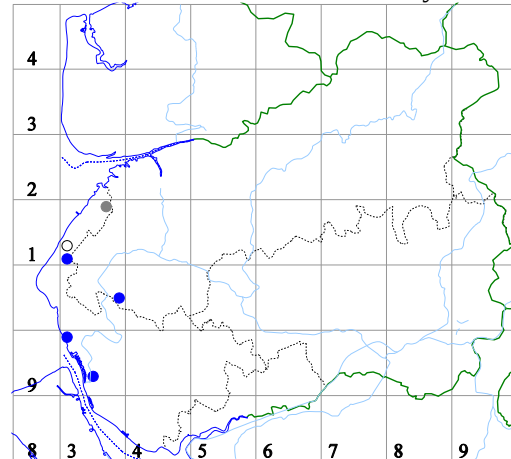
Status & distribution: Neophyte-casual; lane from Hall Road Station to Little Crosby (SD30A, Dr. JW Ellis, 1909, det. GCD, *Botanical Exchange Club Report* 1910 p. 452); Lord Newton's Estate, Newton-le-Willows (SJ5894, BW Fox, 1959, BON & V Gordon, 1960, LIV); Tillotson's Estate, Burtonwood (SJ5692, BW Fox, 1959, BON).

Habitat: Disturbed ground.

Comments: Native to southern Europe.

***Matthiola incana* (L.) W.T. Aiton**

Hoary Stock



Status & distribution: Neophyte-naturalised; Crosby Marine Park (SJ3198, PH Smith, 2004); Crosby Marine Park (SJ3098, DP & J Earl & SP Toone, 2005); railway wall, Vauxhall (SJ3492, 2010) & towpath retaining wall, Leeds & Liverpool Canal, Vauxhall (SJ3492, 2011) DP & J Earl.

Habitat: Walls, sand-dunes and tips.

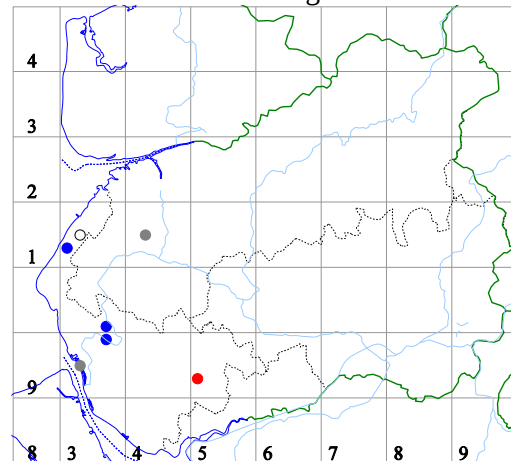
Former distribution: Ainsdale (SD31B, 1929, LIV) & Churchtown (SD31U, 1948, LIV) FW Holder; Rochdale area (Rev CE Shaw, n.d.)

Habitat: Walls, sand-dunes and tips.

***Matthiola longipetala* (Vert.) DC. ssp.**

***bicornis* (Sibth. & Smith) P. Ball.**

Night-scented Stock



Status & distribution: Neophyte-casual; Switch Island, Maghull (SJ3699 & SD3600 & SD3700, RF Goldchild, 2006); by track to the Sailing Club, Hightown (SD2902, Manchester Field Club, 2012); Westminster Drive Ainsdale (SD3012, PH

Smith, 2014); Moss Side (SJ8395, DP Earl, 2017).

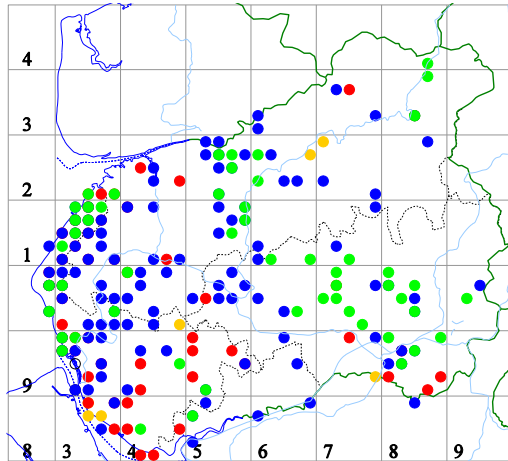
Former distribution: Birkdale (SD31H, H Britten, 1927); waste ground at Bootle (SJ39H, JD Massey, 1930); Berry House Farm, Martin Mere (SD41H, FW Holder, 1930, LIV).

Habitat: Waste and disturbed ground.

Comments: Native to the Balkans.

***Lobularia maritima* (L.) Desv.**

Sweet Alison



Wavertree DP Earl 2008

Status & distribution: Neophyte-naturalised; a widespread garden escape, most frequent in the coastal areas.

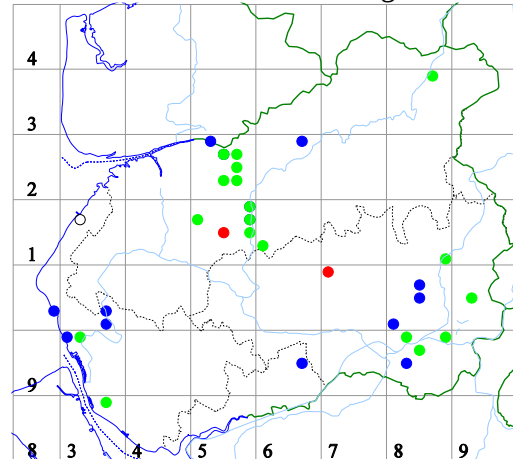
Earliest record traced: Bootle (SJ39H, R Buxton, 1841, MANCH).

Habitat: Roadsides, pavements, rubbish tips, waste ground and sand-dunes.

Comments: Native to southern Europe. Plants are now commonly self-sown and often persist.

***Malcolmia maritima* (L.) W.T. Aiton**

Virginia Stock



Chorley DP Earl 2020

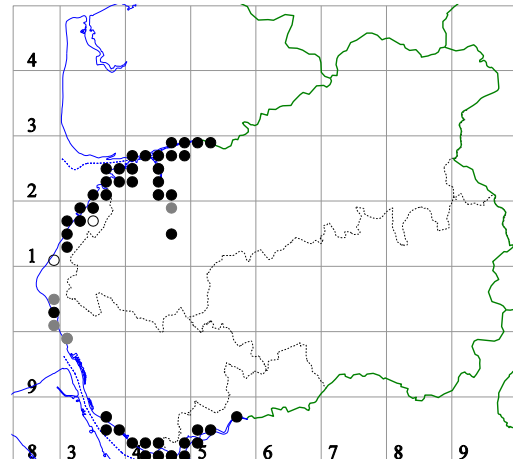
Status & distribution: Neophyte-casual; widely scattered.

Earliest record traced: North Liverpool (SJ39, F Townsend, 1843, SLBI).

Habitat: Disturbed ground, tips and areas sown with wildflower mixes.

Comments: Native to south-eastern Europe.

***Cochlearia x hollandica* Henrard**





Marshside DP Earl 2008

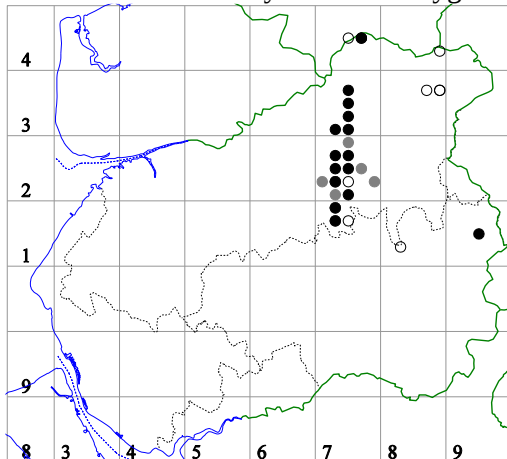
Status & distribution: Native, Axiophyte; locally common in the river estuaries and along the coast about Southport.

Habitat: Saltmarshes, tidal riverbanks and creeks.

Comments: Widely recorded as *Cochlearia anglica* L. but studies suggest that the plants of the Lancashire saltmarshes may well be this hybrid.

Cochlearia pyrenaica* DC. ssp. *pyrenaica

Pyrenean Scurvygrass



Status & distribution: Native, Least Concern (Red List for England), Axiophyte; until relatively recently this species was locally frequent in the West Pennine Moors with scattered elsewhere in the north and east of the vice-county and occurring at relatively low altitudes along

the banks of the River Ribble in the Clitheroe district.

Habitat: Alongside upland streams and in adjacent flushes, riverbanks, damp upland ditches and roadsides; formerly damp upland meadows.

Comments: Populations have declined drastically in recent times especially where upland pastures have been improved or become rank probably to nitrification.

***Cochlearia officinalis* L.**

Common Scurvygrass

Status & distribution: Native, Least Concern (Red List for England); Rare (2) and perhaps Critically Endangered at the vice-county level; Spike Island (SJ58C, CS Crook, 1998); Dock walls, Princes Dock to Pier Head (SJ39G, DP Earl, 2002).

Former distribution: Hale Marsh (SJ48Q, W Wilson, 1821); Fiddler's Ferry (SJ58M, W Wilson, 1824, MANCH); Howick (SJ42Y, *Fl. Preston* 1865); SD20 (Anon., C. 1950); SD52 (Anon., c. 1950).

Habitat: Areas of saltmarsh where shingle and stone occur and on walls along the estuaries by the sea.

Comments: Some of the above records are considered dubious and require confirmation. Some plants may have been within the range of *C. anglica* x *C. officinalis* towards the *C. officinalis* end of the spectrum.

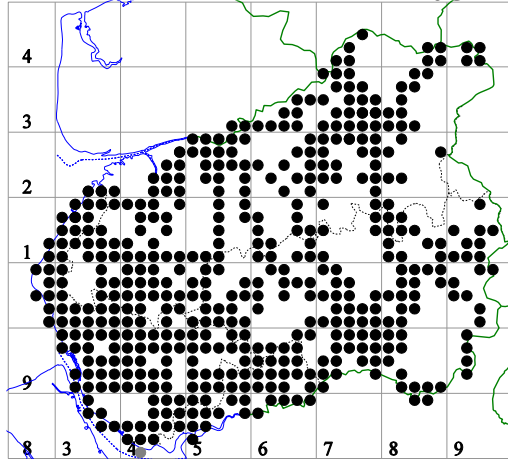
Cochlearia officinalis* x *C. danica

Status & distribution: Native, Rare (2); A57 (SJ68U, DP & J Earl, 2004); A57 (SJ79A, 2006) & A570, Stanleygate (SD40M, 2005) DP Earl.

Habitat: Salted roadsides inland.

Comments: The above putative records require confirmation.

Cochlearia danica L. Danish Scurvygrass



Mere Brow DP Earl 2008

Status & distribution: Native & Adventive, Least Concern (Red List for England); now widely distributed across the vice-county.

Former distribution: Until recently a very rare casual except on the coast.

Habitat: Sand-dunes, sandy ground, and pavements, concrete and stony ground near the coast, abundant on salted road verges, rare on railway ballast. Spreading from the motorways and trunk roads to nearby canal towpaths and river sand.

Comments: A dramatic increase in recent years along motorways and trunk roads due to winter salting of roads. The light seeds are dispersed in wind eddies created by traffic.

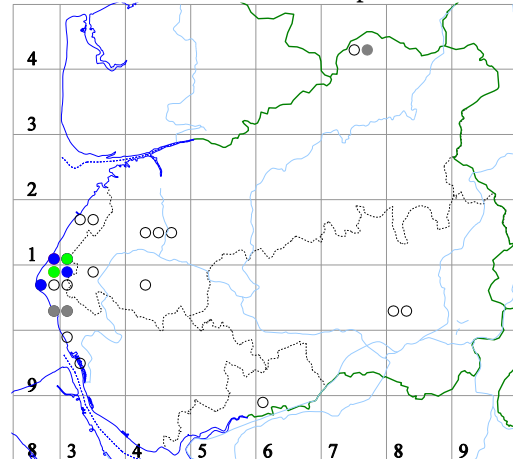
Cochlearia acaulis Desf. Violet Cress

Status & distribution: Neophyte-naturalised; Duckworth Street Methodist Chapel, Darwen (SD69042251, P Jepson, 1975-1980, det. E Clement).

Habitat: Sandy ground.

Comments: Native to Portugal.

Teesdalia nudicaulis (L.) R. Br.
Shepherd's Cress



Woodvale DP Earl 2008

Status & distribution: Native, [Near Threatened \(Red List England\)](#); Scarce (3) although sometimes locally abundant where plants occur. The known species distribution declined to a single small area of rabbit grazed dunes by the railway at Ainsdale (SD3011, PH Smith, 2012) but a large population was later discovered along the RAF Woodvale Perimeter Fence (SD3009, SD3110 & SD3111, DP Earl, 2013); two plants have also been found by Wicks Lake, Formby (SD2707, PH Smith, 2015).

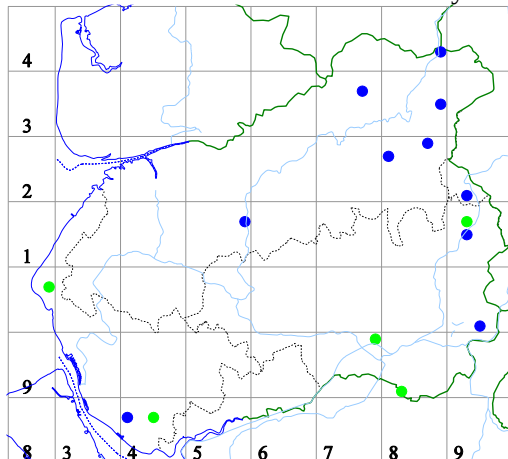
Former distribution: Once considered common along the dunes from Birkdale to Hightown, formerly a localised inland species on sandy well-drained soils.

Habitat: Sand-dunes, on sandy ground near to the coast; formerly on heaths.

Comments: Can on occasions become locally abundant.

***Iberis sempervirens* L.**

Perennial Candytuft

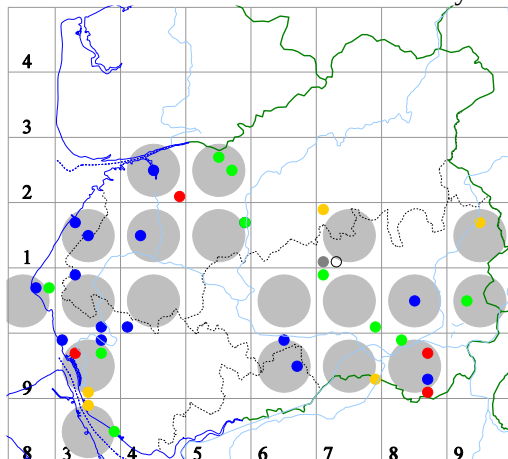


Status & distribution: Neophyte-naturalised; Sabden (SD7737, 2004); A6033 (SD9320, DP & J Earl & SP Toone, 2004); Calderstones (SJ4087, J Somerville, 2009); Hollinworth Lake (SD9315, DP & J Earl & P & A Bowdler, 2010); Chorley (SD5817, 2012); Hazelhurst (SD9500, 2012) Burnley Borough (SD8835, 2015) & Rossendale Borough (SD8026, 2015) DP Earl.

Habitat: Garden walls.

Comments: Native to southern Europe.

***Iberis umbellatum* L.** Garden Candytuft



Culcheth DP Earl 2009

Status & distribution: Neophyte-casual; occasional, generally in suburban areas.

Earliest record traced: Bridson Yard, Bolton (SD7310, T Greenlees, 1920).

Habitat: Waste ground, imported topsoil, tips and pavements.

Comments: Native to southern Europe. Readily self-sown and may persist for a number of years. Records have been made for *I. amara* are thought to be errors for *I. umbellatum* and probably belong here.

***Myagrum perfoliatum* L.** Mitre Cress

Status & distribution: Neophyte-casual; Aintree (SJ39U, JA Wheldon, 1892); Birkdale (SD31H, H Britten & R Wagstaffe, 1928).

Comments: Originating via imported grain; a cornfield weed in Mediterranean regions and south-eastern Europe.

***Enarthrocarpos lythraus* DC.**

Status & distribution: Neophyte-casual; rubbish tips, Pendleton (SJ89E, R Buxton Phyt (NS) IV p. 57); waste ground, Salford (SJ89E, Dr. Windsor *BEC Report* 1861 p. 14); Linacre, Litherland by (SJ39J, JH Lewis & FM Webb, 1872, MANCH); ballast, Stanley Road, Bootle (SJ3495, 1874, MANCH); Back Lane, West Derby (SJ4094, 1874, MANCH) & ballast by Marine Department, Liverpool (SJ3390, 1876, MANCH) JH Lewis..

Habitat: Waste ground, ballast and rubbish tips.

Comments: Native to South-eastern Europe.

***Euclidium syiaceum* (L.) R. Br.**

Status & distribution: Neophyte-casual; Accrington (SD72P, JW Bamber, 1908).