

Annotated check-list of flowering plants and ferns of Great Cumbrae

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Over 30 years have passed since Rhind published his list of *The Vascular Plants of Great Cumbrae Island and the Adjacent Islets* (Rhind 1988). Rhind gave a valuable account of earlier botanical work on Cumbrae, but in comparing the results of his own survey (369 species) with the older lists he found that many plants seemed to have disappeared. This he attributed to habitat destruction, caused by intensive agricultural practices, various aspects of development, and increased pollution. While these have led to the loss of some species, and the increasing rarity of others, the situation is not nearly so black as it appeared to Rhind. Annual visits to the Marine Station by University groups, from Newcastle (John Richards), York (James Merryweather) and Hull (Ray Goulder), as well as some recording for the *New Atlas of the British Flora* (Preston, Pearman and Dines, 2002), and continuing survey by the author since 2002, have resulted in many species not seen since the 19th century being re-found, and new discoveries made, so that the general complexion of Cumbrae botany is less gloomy than Rhind suggested. Although the composition of the flora has altered somewhat, the overall number of species on the island is at least as high as it was in the Victorian period.

Perhaps because of its small size and convenience of access, Great Cumbrae has been more thoroughly botanised over the last two centuries than any other of the Clyde islands. This is especially true of the second half of the 19th century, when the most comprehensive lists were produced, notably that by Keddie (1862) of 478 species recorded in the two Cumbraes, with strong emphasis on the larger island. Hennedy, in his *Clydesdale Flora* (5th edition 1891) added many further species. In the 20th century there was much less recording done, though work was published by Sutherland (1926) and Fletcher and Martin (1960), as well as Rhind. The former's work was of a general ecological nature, and did not include comprehensive lists, but Fletcher and Martin added some new species, though failing to re-find a large number of the older records. However, their identifications were mostly made by students, many unfamiliar with the locality. Species on their list not confirmed elsewhere must be treated with caution. All of these earlier records, as well as Rhind's, and more recent records by Richards, Goulder and others are included in the check-list where they supplement my own. I wish to thank these recorders for allowing me to use their unpublished records. Further thanks are due to John Allen and Rupert Ormonde, former directors, and to the staff of the University Marine Biological Research Station for assistance and encouragement. A BSBI field meeting led by the author in 2007 attempted to tidy up some loose ends prior to publishing a check-list. Some questions remain unanswered, but fresh discoveries were made.

All species listed without a recorder have been observed personally by the author since 2002. Taxa not recorded since 1960 are in smaller type and bracketed. These entries are also accompanied by an indication of the author's opinion regarding their present status, i.e. certainly, probably or possibly extinct, or probably still present but in need of confirmation. My own method of recording up to 2007 had been to divide the island into 14 districts, averaging 1km² in area. Since then, I have recorded in 1km grid squares, using GPS. Most squares have been recorded three or more times, but there will still be many omissions. The difficulties occasioned by living on another island while needing to revisit sites at different seasons can only have aggravated the problem, and any additional records will be appreciatively received. Beside each entry is printed the number of squares in which I have recorded the plant. It must be borne in mind that this figure is likely to be unduly low for inconspicuous species, those with a brief season or those which are hard to identify. Despite this, in most cases it offers a good indication of relative commonness or scarcity. Of course, some plants occurring in only one or two districts may be abundant and conspicuous there.

The total of 752 species (635 recorded since 1960 and 595 since 2000) in an area equivalent to less than three tetrads indicates the richness and diversity of habitat which Cumbrae still affords, despite the depredations to which Rhind alluded. This diversity is partly geological in cause, for the underlying Old Red

Sandstone which makes up the bulk of the island is crossed by many igneous dykes of various ages, while the rock which underlies Millport is richly calciferous. Escarpments, ravines and outcropping rocks ensure that a variety of habitats persists even in areas of intensive farming. But it is the raised beaches and associated fossil cliffs which provide the richest botanical habitats. These are found to a greater or lesser degree around most of the island, and the varying levels of moisture and base-richness ensure a pleasing diversity of species. Inland areas are generally less interesting, and it is deeply to be regretted that the small area of moor around the Minnemoer lochan in the highest part of the island has been grossly degraded and largely destroyed by overwintering of excessive numbers of cattle.

The list is arranged alphabetically by genus, to avoid the need of an index. Nomenclature follows Stace 2010. Plants thought to have been introduced to the island or known to be recent arrivals in Scotland spreading spontaneously to Cumbrae after becoming established elsewhere, are marked *, these amount to 147 in all. Current BSBI guidelines have been followed in the recording of aliens: trees are recorded where planted other than in gardens. Further notes on status are given where appropriate.

Of the 752 species listed, 611 have been seen either by myself or other recorders since the publication of Rhind's article. Eight (mostly casuals) seen by Rhind have not been re-found, and another 24 species recorded earlier could possibly still be present. A further 60 species are thought to be probably extinct or currently absent (having been only ever casual), while 22 records are considered dubious and three may pertain to Little Cumbrae.

Recorders and references:

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List of species

- Acer campestre**** **1**
Field Maple
First recorded: Kedd., Henn.
rare: roadside by Standing Stone plantation. Presumed planted.
- Acer platanoides**** **3**
Norway Maple
occasional: planted in amenity/estate woodland. Reproduces freely.
- Acer pseudoplatanus**** **17**
Sycamore
First recorded: Kedd.
common: often planted in estate woodland and around farms. Thoroughly naturalised in woods, scrub and hedgerows.
- Achillea millefolium*** **18**
Yarrow
First recorded: Kedd.
very common: field edges, roadsides, foreshores and well drained base-rich hill turf.
- Achillea ptarmica*** **12**
Sneezewort
First recorded: Kedd.
common: in marshes and moist places of moderate acidity.
- [***Aconitum napellus****
Monkshood
Lee, 1953. Not seen since. Taxon unconfirmed. Doubtless of garden origin.]
- Adoxa moschatellina*** **2**
Moschatel
First recorded: Kedd.
occasional: in western fossil-cliff woods N of Bell Craig and at Clate Rock.
- Aegopodium podagraria**** **15**
Bishopweed
First recorded: Kedd.
common: woods, verges, disturbed ground and as a garden weed, on enriched soils.
- Aesculus hippocastanum**** **4**
Horse Chestnut
occasional: planted. Commonly producing seedlings but these seldom getting away.
- [***Aethusa cynapium***
Fool's Parsley
Kedd., Henn. Extinct.]
- Agrimonia eupatoria*** **1**
Agrimony
First recorded: Kedd.
rare: Clashfarland 2015 (NS 1852 5618). Specific ID needs to be checked, see next taxon.
- Agrimonia procera*** **1**
Fragrant Agrimony
Exc. 1895, F.& M.
rare now confirmed in coarse vegetation above Davy's Rock NS182554.
- [***Agrostemma githago****
Corncockle
Kedd., Henn., Lee. Extinct.]
- Agrostis canina*** **6**
Velvet Bent
First recorded: Kedd. (no doubt referencing the agg.)
Frequent in moist, acid grassland. Under-recorded.
- Agrostis capillaris*** **17**
Common Bent
First recorded: Kedd. (as *A. vulgaris*)
Ubiquitous on well-drained land of moderate acidity; often very abundant. On all but the most intensively farmed land.

Agrostis gigantea*

Black Bent

Richards. Needs confirmation.

Agrostis stolonifera **19**

Creeping Bent

First recorded: Kedd. (as *A. alba*)

common: shores, especially salt marshes, foreshores and roadsides where enriched.

Agrostis vinealis **2**

Brown Bent

frequent: drier moorland, often with *Nardus*. Under-recorded.

Aira caryophylla **3**

Silver Hair-grass

First recorded: Kedd.

occasional: verges, Fintry and Farland.

Aira praecox **17**

Early Hair-grass

First recorded: Kedd.

frequent: dry wall-tops, rocks and banks, often in exposed situations.

Ajuga reptans **8**

Bugle

First recorded: Kedd.

frequent: moist, shady places with some base-richness, marshes and flushed grassland.

Alchemilla glabra **10**

Lady's-mantle

First recorded: Kedd. (as *A. arvensis* for the agg.)

occasional: moist grassy turf with some base-richness, mostly roadside verges.

Alchemilla mollis* **2**

Garden Lady's-mantle

occasional outcast, established in waste ground.

Alisma lanceolata* **1**

Narrow-leaved Water-plantain

rare casual: old quarry pond 2007; probably dumped. Survived only a few years.

Alisma plantago-aquatica

Water Plantain

First recorded: Kedd.

Not seen recently.

Allium triquetrum* **1**

Three-cornered Garlic

rare casual: surviving from garden throwout near Doughend.

Allium ursinum **5**

Wild Garlic/Ramsons

frequent: often abundant in moist woods and shady places on richer soil.

[***Allium vineale***

Wild Onion

Kedd., Henn. Needs confirmation.]

Alnus glutinosa **10**

Alder

First recorded: Kedd.

common; damp woods, burn-sides and wet raised beaches, wherever enrichment occurs.

Alopecurus geniculatus **14**

Marsh Foxtail

First recorded: Kedd.

frequent: wet, especially trampled areas in pasture, tracks and gateways.

[***Alopecurus myosuroides****

Black-grass

F.& M. Extinct or casual, if correct ID]

Alopecurus pratensis **6**

Meadow Foxtail

First recorded: Kedd.
occasional: moist roadsides.

Ammophila arenaria **2**

Marram

First recorded: Kedd. (as *Psamma ar.* and *A. arundinacea*)

rare and local on dunes and adjacent sandy shores and foreshores. Seems to be out-competed by *Leymus* and *Elytrigia*.

Anagallis arvensis **6**

Scarlet Pimpernel

First recorded: Kedd.

occasional: disturbed ground and field edges.

Anagallis tenella **11**

Bog Pimpernel

First recorded: Kedd.

frequent: base-rich flushes in heathy places. Locally abundant.

Anchusa arvensis **1**

Bugloss

First recorded: Kedd.

rare: margins of arable fields which have escaped herbicide, and other bare, sandy areas.

Anemone nemorosa **5**

Wood Anemone

First recorded: Kedd.

frequent, rather local but sometimes abundant: woods and open rough ground.

[***Angelica archangelica****

Garden Angelica

Kedd. Introduced but long extinct.]

Angelica sylvestris **18**

Wild Angelica

First recorded: Kedd.

very common: ditches, marshes and damp ground wherever slightly enriched and not too acidic.

Anisantha sterilis **1**

Barren brome

First recorded: Kedd. (as *Bromus sterilis*)

rare, roadside verges near Millport.

[***Antennaria dioica***

Catsfoot

Kedd. Extinct, or probably Little Cumbrae only?]

Anthoxanthum odoratum **20**

Sweet Vernal-grass

First recorded: Kedd.

ubiquitous except on the most impoverished land: rocky shores and roadside banks. Often abundant.

Anthriscus sylvestris **12**

Cow Parsley

First recorded: Kedd.

frequent on roadside verges.

Anthyllis vulneraria **3**

Kidney Vetch

First recorded: Kedd.

occasional: in short turf over trap rocks near sea.

***Aphanes arvensis* agg.** **5**

Parsley-piert

First recorded: Kedd.

occasional: pathsides, bare ground and as a garden weed. *A. australis* would seem to be the usual form.

Apium inundatum **1**

Lesser Marshwort

First recorded: Kedd. (as *Helosciadium in.*)

recorded from Minnemoer and abundantly on the old curling pond.

- Apium nodiflorum*** **4**
Fool's Watercress
 First recorded: Kedd. (as *Helosciadium nod.*)
 occasional: base-rich swamps and slow flowing ditches on the raised beach.
- Aquilegia vulgaris**** **1**
Columbine
 First recorded: Rhind.
 rare: on foreshore, from garden throw-out?
- Arabidopsis thaliana*** **8**
Thale Cress
 First recorded: Kedd.
 frequent: a weed of gardens and pavement edges.
- [***Arabis hirsuta***
Hairy Rock-cress
 Kedd., Henn. Extinct? Possibly only on Little Cumbrae. Now very scarce in Clyde area.]
- Arctium sp.*** **13**
Burdock
 First recorded: Kedd. (as *A. lappa*)
 frequent: disturbed grassy places and trampled ground, especially where cattle walk. Taxonomy uncertain: *A. lappa*, recorded by Kedd., Henn., Suth. does not refer to the taxon now bearing that name in Stace.
- Arenaria serpyllifolia*** **4**
Thyme-leaved Sandwort
 occasional: sandy or gravelly erosion banks just above HWM and pavement edges near the sea.
- Armeria maritima*** **15**
Thrift
 First recorded: Kedd.
 very common: all types of rocky and shingly shores.
- Arrhenatherum elatius*** **20**
False Oat-grass
 First recorded: Kedd.
 very common: enriched ground on roadsides, field edges, foreshores and in scrubby places.
- Artemisia vulgaris**** **2**
Mugwort
 First recorded: Kedd.
 rare: rough grassy foreshore by ferry slip, and on bare ground elsewhere.
- Arum maculatum**** **1**
Lords and Ladies
 rare: damp, shady places on neutral soils.
- Asplenium adiantum-nigrum*** **10**
Black Spleenwort
 First recorded: Kedd.
 frequent: on mildly acid rocks and mortared walls. Tolerant of exposure.
- Asplenium marinum*** **2**
Sea Spleenwort
 First recorded: Kedd., Henn.
 rare: crevices in shoreline rocks.
- Asplenium ruta-muraria*** **5**
Wall-rue
 First recorded: Kedd.,
 frequent: on mortared walls.
- Asplenium scolopendrium*** **10**
Hart's-tongue Fern
 First recorded: Stalk., Kedd.
 frequent: damp, very shady spots on base-rich rocks and walls. Depauperate specimens survive in more exposed positions.
- Asplenium trichomanes*** **10**

Maidenhair Spleenwort

First recorded: Kedd.

common: abundant on mortared walls; occasional on shady, base-rich rocks.

***Aster novi-belgii* agg.* 2**

Michaelmas Daisy

locally established.

***Aster x salignus** 2**

Confused Michaelmas Daisy

locally established.

***Aster tripolium* 12**

Sea Aster

First recorded: Kedd.

frequent: in salt marshes and fragments of maritime turf.

***Athyrium filix-femina* 19**

Lady Fern

First recorded: Stalk., Kedd.

common: moist spots in woods and on banks by burns and roadsides.

***Atriplex glabriuscula* 9**

Babington's Orache

common, often abundant on most types of shore.

***Atriplex laciniata* 1**

Frosted Orache

Kedd., Lee, F. & M.; Richards, Portachur.

***Atriplex littoralis* 2**

Grass-leaved Orache

rare: shores near Millport.

***Atriplex patula* 2**

Common Orache

First recorded: Kedd.

rare: a garden and arable weed.

***Atriplex prostrata* 2(+?)**

Spear-leaved Orache

Kedd.; Richards, Portachur: possibly frequent, needs further recording due to confusion with *A. glabriuscula*.

[***Avena strigosa** 1**

Black Oat

Henn. Extinct.]

***Avenula pratensis* 1**

Meadow Oat-grass

rare: Doughead raised beach, rock pavement.

***Avenula pubescens* 12**

Downy Oat-grass

common: well-drained foreshores and roadsides.

***Baldellia ranunculoides* 4**

Lesser Water-plantain

First recorded: Kedd.

occasional: in lochans and ditches.

[***Barbarea vulgaris***

Winter-cress

Kedd. Extinct or rare casual.]

***Bellis perennis* 20**

Daisy

First recorded: Kedd.

very common: in short, moist turf with some base-enrichment.

[***Berberis vulgaris***

Barberry

Kedd., Henn. Extinct.]

[***Berula erecta***

Lesser Water-parsnip

F&M: Lion rock fen. Unconfirmed; possible error for *Apium inundatum*, though the plant occurs on both Bute and Arran.]

***Beta vulgaris subsp. maritima* 1**

Sea Beet

First recorded 2015, at West Bay during Bioblitz.

[***Betula pendula****

Silver Birch

Suth.; Rhind: frequent; Richards, Goulder. Rare, possibly planted. Some specimens of *B. pubescens* introgress towards this taxon: needs investigation.]

***Betula pubescens* 15**

Downy Birch

First recorded: Kedd. (as *B. alba*)

common: occasional in mixed woodland on the richer soils, becoming more frequent where impoverished.

[***Bidens tripartita***

Trifid Bur-marigold

Kedd., Henn. Probably extinct.]

***Blechnum spicant* 14**

Hard Fern

First recorded: Kedd. (as *B. boreale*)

common: in moist, shady places on acid soil or where there is superficial leaching.

***Blasmus rufus* 2**

Saltmarsh Flat-sedge

rare: in patches of turf near HWM on rocky shore N of Lion rock and on Farland.

***Bolboschoenus maritimus* 6**

Sea Club-rush

First recorded: Kedd.

occasional: in brackish pools and flushes close to the shore.

***Botrychium lunaria* 1**

Moonwort

First recorded: Balf., Kedd.

Re-found 2015, Wine Bay, roadside verge, shore side of road, 4 plants (NS17185907 -17215908).

Borago officinalis*

Borage

Richards, 1996, Kames bay. Casual.

***Brachypodium sylvaticum* 13**

False Brome

common: dry banks in woods and rocky places and on cliffs, where there is some base-richness.

Brassica napus* 3

Rape

First recorded: Rhind.

rare: disturbed ground and corners of arable fields.

[***Brassica rapa****

Wild Turnip

F&M. Unconfirmed, casual]

[***Briza media***

Quaking Grass

Richards: 'Frequent in Lion rock fen and fen S of Station'. A puzzle: never refound despite many searches.]

***Bromopsis ramosa* 2**

Hairy Brome

First recorded: Kedd. (as *Bromus asper*, Murr.)

rare: western cliff woods.

***Bromus hordeaceus* 15**

Soft Brome

First recorded: Kedd. (as *Serrafalcus mollis*)

common: free-draining verges and foreshores, locally abundant.

Buddleja davidii* 1

Butterfly Bush

Occasionally self-seeding.

- Cakile maritima*** **3**
Sea Rocket
Henn. occasional on sandy beaches.]
- Callitriche hamulata***
Intermediate Water-starwort
First recorded: Kedd.
BSBI and Loch survey 1996.
- Callitriche stagnalis s.l.*** **9**
Common Water-starwort
First recorded: Kedd.
frequent: in slow or stagnant water and on mud.
- Calluna vulgaris*** **17**
Heather
First recorded: Kedd.
common: moorland, heaths and rocky ground, on peat and in turf on shallow soils where leached.
- Caltha palustris*** **14**
Marsh-marigold
First recorded: Stalk., Kedd.
common: marshes where not too acidic; locally abundant.
- Calystegia pulchra**** **2**
Hairy Bindweed
occasional: hedge by SW road.
[***Calystegia soldanella***
Sea Bindweed
Balf., Kedd., Henn., Lee. Extinct. Now rare in Clyde area.]
- Calystegia sepium*** **16**
Hedge Bindweed
First recorded: Kedd.
common: hedges, foreshores and coarse vegetation on enriched soil. Also a garden weed. Subsp. *roseata* is local near coasts, especially around Farland and Doughead (det. Brummit).
- Campanula rotundifolia*** **14**
Harebell
First recorded: Kedd.
frequent: in dry places on base-rich soils; especially abundant on the trap dykes.
- Capsella bursa-pastoris*** **8**
Shepherd's Purse
First recorded: Stalk., Kedd.
occasional: a weed of bare ground and path edges.
- Cardamine amara*** **1**
Large Bittercress
First recorded: Kedd., F&M.
rare in fenny woods: Ballikillet.
- Cardamine flexuosa*** **15**
Wavy Bittercress
First recorded: Rhind.
common: burnsides, ditches, damp woods and gardens.
- Cardamine hirsuta*** **6**
Hairy Bittercress
First recorded: Kedd.
frequent: wall tops and other dry places, and as a garden weed.
- Cardamine pratensis*** **18**
Lady's Smock
First recorded: Stalk., Kedd.
very common: marshes, damp fields and verges.
- Carduus crispus***
Wetted Thistle
BSBI 98. Confirmation desirable.

[**Carex acuta**

Tufted Sedge

Kedd., Henn. Extinct, if ever correctly identified.]

Carex acutiformis **1**

Lesser Pond-sedge

First recorded: Kedd. (as *C. paludosa*)

rare: raised beach marsh N of Clate Rock.

Carex arenaria **9**

Sand Sedge

First recorded: Kedd.

frequent: on sand or silt around the shores and foreshores; locally abundant.

Carex binervis **14**

Green ribbed Sedge

First recorded: Kedd.

common: drier acid moorland and hill turf.

Carex caryophylla **12**

Spring Sedge

First recorded: Kedd. (as *C. praecox*)

frequent: in short, base-rich turf, often near shore.

Carex canescens **3**

rare: damp places on acidic soil.

Carex demissa **16**

Common Yellow-sedge

First recorded: Kedd.

frequent: acid flushes and rivulets, especially on bare gravelly or stony ground.

Carex dioica **5**

Dioecious Sedge

occasional: base-rich flushes in wet heath.

Carex distans **12**

Distant Sedge

frequent: base-rich flushes close to the sea, and by margins of brackish pools.

Carex disticha **3**

Brown Sedge

locally abundant in moist grassland in front of Marine Station hostel and in Portachur marsh..

Carex echinata **16**

Star Sedge

First recorded: Kedd. (as *C. stellulata*)

common: on wet heaths and in bogs and acid marshes.

Carex extensa **9**

Long-bracted Sedge

First recorded: Kedd.

occasional: in salt-marsh vegetation near HWM.

Carex flacca **17**

Glaucous Sedge

First recorded: Kedd.

common: on damp, base-rich ground, mainly on beaches and foreshores and in flushes inland.

Carex hirta **12**

Hairy Sedge

First recorded: Kedd.

frequent: in coarse, damp, grassy vegetation.

Carex hostiana **10**

Tawny Sedge

First recorded: Kedd. (as *C. fulva*)

frequent: base-rich flushes in heath and moorland and in the raised beach marshes.

Carex laevigata **3**

Smooth-stalked Sedge

rare: wet, flushed ground, usually in shade.

- Carex lepidocarpa*** **3**
Long-stalked Yellow-sedge
occasional: base-rich flushes. Grades into *C. demissa*.
- Carex leporina (=ovalis)*** **13**
Oval Sedge
First recorded: Kedd.
frequent: damp pastures and moist acid ground where drainage is not too free.
- [***Carex muricata***
Prickly Sedge
Kedd., Henn. Recently found on Bute: needs confirmation.]
- Carex nigra*** **20**
Common Sedge
First recorded: Kedd. (as *C. vulgaris*)
common: flushes, bog-pools, pond and loch sides, wet heaths and moist grassland.
- Carex oederi (=serotina)***
Lesser Yellow-sedge
Richards: Farland and fen N of Station. Needs confirmation.
- Carex otrubae*** **12**
False Fox-sedge
First recorded: Kedd. (as *C. vulpina*)
frequent: scattered around shores, usually in fresh water seepages just above HWM.
- Carex panicea*** **16**
Carnation Sedge
First recorded: Kedd.
common: flushed grassland, bogs and marshes.
- Carex paniculata***
Greater Tussock-sedge
First recorded: Kedd.
Stirling, 1975; location unknown. Should be looked for.
- Carex pendula**** **1**
Pendulous Sedge
rare: Millport area, probably introduced.
- Carex pilulifera*** **8**
Pill Sedge
frequent: in free-draining turf on heaths and acid pastures.
- Carex pulicaris*** **12**
Flea Sedge
First recorded: Kedd.
frequent: base-rich flushes, mainly on the raised beaches; often abundant.
- Carex remota*** **7**
Remote Sedge
First recorded: Kedd.
occasional: damp, base-rich woodland and moist, bare soil in shady spots.
- Carex rostrata*** **4**
Bottle Sedge
occasional: lochsides, pools, fens, marshes, bogs and ditches; of wide edaphic tolerance.
- Carex sylvatica*** **3**
Wood sedge
First recorded: Kedd.
rare: in woods or on shady banks where moderately base-rich. Ninian Brae, Cathedral wood, above Sheriff's port.
- [***Carex vesicaria***
Bladder Sedge
F. & M. Unconfirmed; possible error?]
- [***Carum carvi****
Caraway
Suth. Unconfirmed: extinct or probably error for the next species.]
- Carum verticillatum*** **17**

Whorled Caraway

First recorded: Kedd.

common: marshes and damp rushy pastures of moderate acidity. Locally very abundant.

Catabrosa aquatica **3**

Water Whorl-grass

First recorded: Kedd.

rare: freshwater seepage near HWM; Millport and Fintray.

[***Centaurea cyanus****

Cornflower

Henn. Extinct.]

Centaurea montana*

Perennial Cornflower

Rhind: rare; Richards: roadside. Probable garden throw-out.

Centaurea nigra **19**

Knapweed

First recorded: Kedd.

very common: coarse grassland on roadsides, foreshores and field or wood edges, avoiding the most eutrophic or impoverished conditions.

Centaureum erythraea **6**

Centaury

First recorded: Kedd.

occasional: short turf on rocky shores.

[***Centaureum littorale***

Seaside Centaury

First recorded: Balf., Kedd.

Not seen since and possibly extinct.]

Centranthus ruber*

Red Valerian

locally established on walls in Millport.

[***Centunculus minimus***

Chaffweed

Henn., Lee. Needs confirmation.]

Cerastium diffusum **8**

Sea Mouse-ear

First recorded: Kedd.

occasional in turf and pavement edges near sea.

Cerastium fontanum **20**

Common Mouse-ear

First recorded: Kedd.

ubiquitous in circumneutral or mildly acidic grassland.

Cerastium glomeratum **18**

Sticky Mouse-ear

First recorded: Kedd.

very common in rich circumneutral grassland and disturbed ground.

[***Ceratocarpus claviculata***

Climbing Corydalis

Kedd. Unconfirmed record may refer to Little Cumbrae, where it is still found.]

[***Chaerophyllum temulum***

Rough Chervil

F&M. Unconfirmed.]

[***Chamaemelum nobile***

Chamomile

Kedd., Henn., Lee. Extinct?]

Chamerion angustifolium **17**

Rosebay Willowherb

very common: waste ground and by roadsides, occasional on cliffs.

Cheiranthus cheiri*

Wallflower

First recorded: Rhind: rare.

No doubt hort. Not seen since.

Chenopodium album **6**

Fat-hen

First recorded: Kedd.

occasional as a ruderal or arable weed.

[***Chenopodium bonus-henricus****

Good King Henry

F&M. Extinct.]

[***Chrysanthemum segetum***

Corn Marigold

Kedd., F. & M. May persist in seed-banks. Needs confirmation.]

Chrysosplenium oppositifolium **12**

Golden Saxifrage

First recorded: Kedd.

common: shady burn-sides and damp woodland.

Circaea lutetiana **1**

Enchanter's-nightshade

First recorded: Kedd.

rare: Millport, in damp woodland.

Circaea x intermedia **1**

Upland Enchanter's-nightshade

rare: cliff woodland north of Bell Craig.

Cirsium arvense **20**

Creeping Thistle

First recorded: Kedd.

very common: fields, disturbed and waste ground, where soil is circumneutral.

[***Cirsium heterophyllum***

Melancholy Thistle

F&M. Unconfirmed: short term casual?]

Cirsium palustre **17**

Marsh Thistle

First recorded: Kedd.

common: marshes, stream-sides, damp fields and woods; tolerant of modest acidity.

Cirsium vulgare **19**

Spear Thistle

First recorded: Kedd.

very common: neglected pastures and open ground, waste places, foreshores.

Claytonia sibirica* **2**

Pink Purslane

frequently naturalised in woods and on shady banks. Indifferently pink or white flowered.

Cochlearia danica

Danish Scurvygrass

BSBI 1996; Richards, Farland point, 2001.

Cochlearia officinalis **15**

Scurvygrass

First recorded: Rob.

common: all round the shores, especially where rocky.

[***Coeloglossum viride***

Frog Orchid

Balf., Kedd., Suth. (near Tomont End) Needs confirmation.]

[***Coincya monensis***

Isle of Man Cabbage

Kedd., Henn. Extinct. Range has contracted from upper Firth of Clyde.]

Comarum palustre **15**

Marsh Cinquefoil

First recorded: Kedd.

common: in marshes and bogs which are not too acidic.

[***Conium maculatum***

Hemlock

Balf., Kedd. Extinct?]

Convallaria majalis*

Lily-of-the-valley

Rhind: rare. Probable garden throw-out.

Conopodium majus **15**

Pignut

First recorded: Kedd. (as *Bunium flexuosum*)

very common: woods and grassland of moderate acidity.

Convolvulus arvensis **2**

Field Bindweed

In coarse vegetation by cathedral and on West Bay foreshore 2013 (54:65/33).

[***Cornus sanguinea****

Dogwood

Rhind: rare. Probable garden throw-out.]

Cortaderia richardii* **3**

Early Pampas-grass

occasional: self-seeding in pavement edges, on wall-tops and waste ground near gardens.

Cortaderia selloana* **1**

Pampas-grass

Planted near ferry slip.

Corylus avellana **10**

Hazel

First recorded: Kedd.

frequent in mixed woodland mainly on fossil cliffs.

Cotoneaster simonsii* **2**

Himalayan Cotoneaster

Self seeding occasionally.

Crambe maritima **1**

Sea Kale

Beach below Marine Station, first seen 2017.

Crataegus monogyna **20**

Hawthorn

very common: woods, scrub and hedgerows on circumneutral soil.

Crepis capillaris **5**

Smooth Hawksbeard

First recorded: Kedd.

occasional: grassy banks and roadsides.

Crepis paludosa **5**

Marsh Hawksbeard

First recorded: Kedd.

occasional: moist grassy banks, ravines and streamsides, and marshes where not too acid.

Crepis tectorum*

Narrow-leaved Hawksbeard

rare casual. Richards, back of Station lab., did not persist.

Crocsmia x crocosmiflora* **16**

Montbretia

common: thoroughly naturalised in hedgebanks, verges and wood edges of slight or moderate acidity.

[***Cruciata laevipes***

Crosswort

F.& M. Casual? Now extinct.]

Cymbalaria muralis* **8**

Ivy-leaved Toadflax

frequent: mortared walls. Thoroughly established in artificial habitat only.

Cynosurus cristatus **20**

Crested Dog's-tail

First recorded: Kedd.

very common: mesotrophic grassy places in pastures and on verges and banks.

[***Cystopteris fragilis***

Brittle Bladder-fern

Jackson, 1974, "One small colony". Needs confirmation.]

Cytisus scoparius **15**

Broom

First recorded: Kedd.

common: bare and rough areas of well-drained, moderately acid ground.

Dactylis glomerata **20**

Cocksfoot

First recorded: Kedd.

very common: roadsides, hedgebanks, woods and cliffs, wherever there is some enrichment.

Dactylorhiza fuchsii **7**

Common Spotted-orchid

frequent: locally abundant in marshes and damp grassy places on base-rich, neutral soils.

Dactylorhiza incarnata **2**

Early Marsh-orchid

Subsp *incarnata*: rare: roadside bog S of Fintry bay.

Subsp *coccinea*: rare: raised beach flushes on the Farland

Dactylorhiza maculata **14**

Heath Spotted-orchid

First recorded: Kedd. (as *Orchis maculata*, possibly subsuming *D. fuchsii*)

common: locally very abundant on heaths and in acid marshes.

Dactylorhiza purpurella **13**

Northern Marsh-orchid

First recorded: Kedd. (as *Orchis latifolia*)

frequent: moist base-rich ground in fens and marshes and on roadside verges; locally abundant.

Danthonia decumbens **11**

Heath Grass

First recorded: Kedd. (as *Troidia dec.*)

frequent: on drier moors and heathy foreshores.

Datura sp* **1**

Thorn-apple

Casual on dumped soil near Marine Station 2017

Daucus carota* **2**

Wild Carrot

First recorded: Kedd.

rare: foreshore, Farland and near ferry slip.

Deschampsia caespitosa **18**

Tufted Hair-grass

First recorded: Kedd.

very common: damp woods, ditch and stream sides and wet moorland.

Deschampsia flexuosa **14**

Wavy Hair-grass

First recorded: Kedd.

common: well-drained, highly acidic ground on banks, rocks and cliffs, both in the open and in woods, especially of beech or birch.

Digitalis purpurea **16**

Foxglove

First recorded: Kedd.

common: wood edges, scrub and hedgebanks, on free-draining soils of moderate acidity; tolerant of both exposure and shade.

[***Diphasiastrum alpinum***

Alpine Clubmoss

Henn. Extinct?]

Diplotaxis muralis **1**

Annual Wall-rocket

Casual near marine station.

[***Dipsacus fullonum****

Teasel

Balf. Casual? or record may refer to Little Cumbrae.]

[***Doronicum pardalianches****

Leopardsbane

First recorded: Kedd.

Not seen recently.]

[***Draba muralis****

Wall Whitlow-grass

Kedd. (as an introduction), Paterson, Lee. Extinct?]

Drosera rotundifolia **7**

Round-leaved Sundew

First recorded: Kedd.

occasional: locally abundant in wet heath and sphagnum bogs.

Dryopteris aemula **4**

Hay-scented Buckler-fern

First recorded: Kedd. (as *Lastrea foeniseeii*, Wats.)

occasional: moist shady banks where the rock is acidic.

***Dryopteris affinis* agg.** **19**

Scaly Male-fern

First recorded: Jack.

very common: shady or moist places with some enrichment, of wider tolerance than *D. fil-mas*, the segregates *affinis s.s.*, *ambrensis* and *borreri* are all frequent.

Dryopteris carthusiana **2**

Narrow Buckler-fern

rare: Farland point, Merryweather 2000.

Dryopteris dilatata **19**

Broad Buckler-fern

First recorded: Kedd.

very common, in moist or shady places.

Dryopteris filix-mas **15**

Male Fern

First recorded: Stalk., Kedd. (as *Lastrea f.*, referring to the agg.)

common: shady or moist places with some enrichment.

Echium vulgare* **2**

Viper's bugloss

rare: foreshore near ferry slip. Golf club car-park.

Eleocharis multicaulis **2**

Many-stalked Spike-rush

BSBI 1996. Confirmed near Minnemoer.

Eleocharis palustris **13**

Common Spike-rush

First recorded: Kedd.

common: lochsides, pools and ditches.

Eleocharis quinqueflora **4**

Few-flowered Spike-rush

occasional: base-rich flushes in raised beach marshes, heath and moorland.

Eleocharis uniglumis **1**

Slender Spike-rush

First recorded: Kedd.

BSBI 1999. Near Wine Bay 2015 (79:51/16).

Eleogiton fluitans **2**

Floating Club-rush

First recorded: Kedd. (as *Isolepis fl.*)

rare: ditch near Skate Bay and at Minnemoer and Curling pond.

Elodea canadensis* **3**

Canadian Waterweed

local: Reservoir.

[***Elymus caninus***

Bearded couch

F&M. Unconfirmed. Record may refer to *Elytrigia repens* var. *aristata* which is locally frequent.]

Elytrigia juncea **3**

Sand Couch

First recorded: Kedd. (as *Triticum jun.*). He also recorded the hybrid as a species *T. laxum*, Fries.

occasional: sandy shorelines.

Elytrigia repens **15**

Common Couch

First recorded: Kedd. (as *Triticum repens*)

frequent: sandy foreshores and dunes, roadsides and field margins where soils are enriched.

Empetrum nigrum **12**

Crowberry

First recorded: Kedd.

frequent: drier, exposed places in bogs and heathy areas.

Epilobium brunnescens* **3**

New Zealand Willowherb

rare: near cathedral, first seen 2013.

Epilobium ciliatum* **6**

American Willowherb

occasional: waste ground and as a garden weed.

Epilobium hirsutum **10**

Great Willowherb

frequent: waste ground and fenny places.

Epilobium montanum **14**

Broad-leaved Willowherb

First recorded: Kedd.

common: walls, pavement edges, cliffs and ravines on basic rocks, and as a garden weed.

Epilobium obscurum **17**

Short-fruited Willowherb

very common: damp grassland, marshes when not too acidic, ditches, disturbed ground and as a garden weed.

Epilobium palustre **12**

Marsh Willowherb

First recorded: Kedd.

frequent: replaces *E. parviflorum* in marshes as acidity increases. Also in wet heath.

Epilobium parviflorum **8**

Hoary Willowherb

frequent: base-rich fens

Epilobium tetragonum

Square-stemmed Willowherb

F&M., Rhind: occasional.; Richards, "new 2002"; needs confirmation.

[***Epipactis helleborine***

Broad Helleborine

Suth. Farland area: extinct?]

Equisetum arvense **19**

Field Horsetail

First recorded: Stalk., Kedd.

very common: damp grassy and gravelly places, ditches, marshes and roadsides.

Equisetum fluviatile **12**

Water Horsetail

First recorded: Stalk., Kedd. (as *E. limosum*).

frequent: wet ditches, ponds, marshy pools and lochsides

Equisetum palustre **5**

Marsh Horsetail

First recorded: Kedd.

occasional: wet places, mainly in the west.

Equisetum sylvaticum

Wood Horsetail

First recorded: Stalk., Kedd.

Rhind: occasional. Not seen since, needs relocating.

Equisetum x litorale **11**

Shore Horsetail

frequent: moist verges and ditches.

Erica cinerea **17**

Bell Heather

First recorded: Kedd.

common: drier or free-draining acid ground, on hills, cliffs and shores. Locally abundant

Erica tetralix **17**

Cross-leaved Heath

First recorded: Kedd.

common: bogs and heaths; in moist acid ground, either peaty or where drainage is impeded, often abundant.

Erinus alpinus* **2**

Fairy Foxglove

local: mortared walls. Naturalised in this artificial habitat in Millport area.

Eriophorum angustifolium **13**

Common Cotton-grass

First recorded: Kedd.

frequent: bogs and wet heaths, often abundant.

Eriophorum vaginatum **4**

Hare's-tail Cotton-grass

occasional: acid bogs and wet heaths.

Erodium cicutarium **5**

Storksbill

First recorded: Kedd.

occasional: bare sandy ground.

Erophila verna s.l. **10**

Whitlow-grass

locally frequent: pavement edges and walls near shore.

[***Eryngium maritimum***

Sea-holly

Balf. (on the northern shores), Kedd., Henn., Lee. Extinct.]

Escallonia macrantha* **1**

Escallonia

occasional: walls and waste ground near gardens.

Eupatorium cannabinum **4**

Hemp-agrimony

First recorded: Kedd.

occasional: moist fenny woods on fossil cliffs.

[***Euphorbia exigua****

Dwarf Spurge

Henn., Lee. Extinct.]

Euphorbia helioscopia **5**

Sun Spurge

First recorded: Kedd.

occasional: arable and garden weed.

Euphorbia peplus **6**

Petty Spurge

First recorded: Kedd.

occasional: a ruderal, garden and arable weed.

Euphrasia officinalis agg. **16**

Eyebright

First recorded: Kedd.

common: in base rich turf near shores and on trap dykes. The following segregates have been recorded: *E. arctica*, *E. confusa*, *E. nemorosa*, *E. tetraquetra*, *E. scotica*.

Fagus sylvatica* **10**

Beech

First recorded: Kedd.

frequent: widely planted in woods; often regenerating.

[***Fallopia convolvulus***

Black Bindweed

Kedd. Needs confirmation.]

Fallopia japonica* **10**

Japanese Knotweed

frequent: naturalised in many places, especially near the shore. Mildly invasive.

Festuca filiformis **2**

Fine-leaved Sheep's-fescue

occasional: dry turf on shallow soil.

***Festuca ovina* agg.** **17**

Sheeps' Fescue

First recorded: Kedd.

common: free-draining turf with some base-richness on shores, rocks, walls and moors.

***Festuca rubra* agg.** **19**

Red Fescue

First recorded: Kedd. (as *F. bromoides*)

very common: shores and foreshores, verges, banks and walls.

[***Festuca vivipara***

Viviparous Fescue

Henn. Probably only casual, and not seen since.]

Ficaria verna **15**

Celandine

First recorded: Stalk.

common: woods, hedgerows and damp, shady grassland.

[***Filago vulgaris***

Common Cudweed

Kedd., Henn. Extinct. Now very rare throughout the region.]

x Festulolium loliaceum

Fescue/Ryegrass hybrid

Richards, with parents S of Station and on SW shore.

Filipendula ulmaria **19**

Meadowsweet

First recorded: Kedd.

very common: in moist ground wherever there is any enrichment.

Fragaria vesca **4**

Wild Strawberry

occasional: grassy places, usually moist and base-rich.

Fraxinus excelsior **18**

Ash

First recorded: Kedd.

very common: woodland and hedgerows where some base-richness is present

Fuchsia magellanica* **3**

Fuchsia

locally self-seeded in Millport area.

Fumaria bastardii **2**

Tall Ramping-fumitory

rare: bare and disturbed ground.

Fumaria muralis **4**

Common Ramping-fumitory

occasional: sandy shores above HWM, arable fields, disturbed ground.

Fumaria officinalis **2**

Common Fumitory

First recorded: Kedd.

rare: weed of disturbed ground.

[***Galeopsis speciosa***

Large Hemp-nettle

First recorded: Kedd. (as *G. versicolor*) Casual or extinct.]

Galeopsis tetrahit s.l. **15**

Common Hemp-nettle

First recorded: Kedd.

common: on bare or disturbed ground and among rough vegetation where there is some enrichment.

Galinsoga quadriradiata* **1**

Shaggy Soldier

rare casual: BSBI 2007

Galium aparine **20**

Cleavers

First recorded: Kedd.

very common: hedgerbanks, thickets and in lush vegetation wherever the ground is well enriched.

Galium odoratum **2**

Woodruff

First recorded: Kedd.

rare: moist, shady, base-rich cliffs.

Galium palustre **16**

Marsh Bedstraw

First recorded: Kedd.

common: marshy places, ditches and moist banks.

Galium saxatile **14**

Heath Bedstraw

First recorded: Kedd.

common: on drier banks and in rocky places on heaths and foreshores.

[***Galium uliginosum***

Fen Bedstraw

Kedd. Probably extinct but worth looking for, as it occurs above Largs.]

Galium verum **17**

Lady's Bedstraw

First recorded: Kedd.

frequent: dry banks, especially on sandy soils and over trap rocks.

Gaultheria mucronata* **1**

Prickly Heath

Now established on the Farland. [Rhind: Eilean only.]

[***Gentiana campestris***

Field Gentian

Kedd., Henn., F&M. Needs confirmation if still present.]

Geranium dissectum **3**

Cut-leaved Cranesbill

First recorded: Kedd.

rare: waste ground and field edges.

Geranium x oxonianum* **2**

Druce's Cranesbill

locally naturalised in Millport area.

Geranium lucidum* **1**

Shining Cranesbill

Kedd., Rob.

casual of horticultural origin, Millport 2015.

Geranium molle **9**

Dove's-foot Cranesbill

First recorded: Kedd.

frequent: grassland and path edges, preferring sandy soil.

Geranium robertianum **16**

Herb Robert

First recorded: Kedd.

very common: woodland, streambanks and hedgerows, widespread but avoiding acid ground.

Geranium sanguineum

Bloody Cranesbill

First recorded: Kedd. (but perhaps on Little Cumbrae, where it still occurs.)

BSBI 1996. Needs relocating to confirm whether native population.

[***Geranium sylvaticum***

Wood Cranesbill

First recorded: Kedd.

Rhind: rare. Probable error.]

Geum rivale

Water Avens

Stalk.: not recorded again until Richards, though common on adjacent mainland and other Clyde islands. Not re-found subsequently. Possible error in both cases.

Geum urbanum **13**

Wood Avens

First recorded: Kedd.

frequent: woods and shady banks on neutral soils.

[***Glaucium flavum***

Yellow Horned-poppay

Kedd. (Little Cumbrae) , Ewing, 1901, Lee. Extinct.]

Glaux maritima **14**

Sea Milkwort

First recorded: Kedd.

very common: in salt marshes and on shingly shores.

Glechoma hederacea **11**

Ground Ivy

First recorded: Kedd.

frequent: woods and shady banks where free-draining but not leached.

Glyceria declinata **10**

Small Sweet-grass

frequent: ditches, pools and trampled marshes.

Glyceria fluitans **10**

Floating Sweet-grass

First recorded: Kedd.

frequent: wet pastures, ditches and less acid marshes.

[***Gnaphalium sylvaticum***

Heath Cudweed

Kedd. Extinct. Now very rare in W Scotland.]

Gnaphalium uliginosum **15**

Marsh Cudweed

First recorded: Kedd.

frequent: on damp, bare ground in trampled places, especially where cattle walk or feed.

Gymnadenia borealis **3**

Fragrant Orchid

First recorded: Kedd.

occasional: raised beach marshes; fen near Clashfarland (NS 1840 5636).

Hedera helix **17**

Ivy

First recorded: Kedd.

very common: woods, hedges, banks and cliffs, avoiding acid soils.

Heracleum mantegazzianum* **1**

Giant Hogweed

very local: established by Church brae in Millport.

Heracleum sphondylium **20**

Hogweed

very common: waste ground, verges and woodland on enriched neutral soils.

Hesperis matronalis* **1**

Dame's violet

First recorded: Rhind.

rare: established very locally on foreshores.

Hieracium agg. **3**

Hawkweed

First recorded: Kedd.

occasional: on rocks, walls, banks and cliffs. The usual sp. resembles *H. vulgatum*, but few determinations have been made.

Holcus lanatus **20**

Yorkshire Fog

First recorded: Kedd.

very common: woods, roadsides, moist pastures, marshes and foreshores.

Holcus mollis **12**

Creeping Soft-grass

First recorded: Kedd.

occasional: damp grassy places and rather acid woodlands.

Honkenya peploides **8**

Sea Sandwort

First recorded: Kedd.

occasional on sandy and shingly shores near HWM.

Humulus lupulus* **1**

Hop

rare casual: Fintry bay.

[***Huperzia selago***

Fir Clubmoss

Kedd., Henn. Extinct, or possibly both records from Little Cumbrae?]

Hyacinthoides x massartiana* **3**

Hybrid Bluebell

occasional: a persistent throw-out from gardens.

Hyacinthoides non-scripta **18**

Bluebell

First recorded: Kedd. (as *Agraphis nutans*)

very common: on free-draining, mildly acid but moderately enriched ground; in woods, and on open grassy or bracken covered slopes; often very abundant.

Hydrocotyle vulgaris **16**

Marsh Pennywort

First recorded: Kedd.

common: marshes and bogs of moderate acidity.

Hymenophyllum wilsonii

Wilson's Filmy-fern

First recorded: Balf., Henn.

Merryweather 2000: W raised beach, on a boulder below the cliff, very rare.

[***Hyoscyamus niger***

Henbane

Balf. Extinct.]

Hypericum androsaemum **9**

Tutsan

First recorded: Kedd.

frequent in shady woods and moist rocky places.

[***Hypericum elodes***

Marsh St John's-wort

Lee. Needs confirmation.]

Hypericum humifusum

Trailing St John's-wort

Kedd., F. & M.; Richards, Lion rock fen.

- Hypericum maculatum*** **1**
Imperforate St John's-wort
 rare: West bay. first record since Henn. May be *H. x desetangsi*; needs checking.
- Hypericum perforatum*** **5**
Perforate St John's-wort
 First recorded: Kedd.
 occasional: dry, bare or waste ground.
- Hypericum pulchrum*** **12**
Slender St John's-wort
 First recorded: Kedd.
 common on heathy banks and drier parts of bogs.
- Hypericum tetrapterum*** **13**
Square-stalked St John's-wort
 First recorded: Kedd. (as *H. quadrangulum*, L.)
 frequent in fens and marshes where not too acidic.
- Hypochoeris radicata*** **18**
Cat's-ear
 First recorded: Kedd.
 very common: free-draining banks, roadsides, cliffs and rocky ground; tolerant of some surface leaching.
- Ilex aquifolium*** **11**
Holly
 First recorded: Kedd.
 common: woods and scrubby places of moderate acidity.
- Iris foetidissima****
Stinking Iris
 Kedd., Henn.; Richards, shade of Station rock.
- Iris pseudacorus*** **16**
Yellow Flag
 First recorded: Kedd.
 very common: fens, marshes, ditches and moist ground with some enrichment.
- Isolepis cernua***
Slender Club-rush
 Ewing, 1901; Richards, Farland coastal flushes. Should be confirmed.
- Isolepis setacea*** **11**
Bristle Club-rush
 First recorded: Kedd.
 occasional: on moist mud and in shallow puddles.
- [***Jasione montana***
Sheepsbit
 Balf., Kedd., Henn. Requires confirmation, may only have been on Little Cumbrae.]
- Juncus acutiflorus*** **16**
Sharp-flowered Rush
 First recorded: Kedd.
 common: in moist, acidic ground.
- Juncus articulatus*** **17**
Jointed Rush
 First recorded: Kedd. (as *J. lamprocarpus*)
 very common: in ditches, rivulets, flushes and on moist road verges, preferring base-rich conditions.
- Juncus bufonius*** **18**
Toad Rush
 First recorded: Kedd.
 common: moist bare ground and trampled places of only mild acidity.
- Juncus bulbosus*** **11**
Bulbous Rush
 First recorded: Kedd. (as *J. supinus*)
 frequent: in wet acid ground or shallow water; bogs, flushes, rivulets and pools.
- [***Juncus compressus***

Round-fruited Rush

Kedd. Unconfirmed record may be an error or refer to Little Cumbrae.]

Juncus conglomeratus **17**

Compact Rush

First recorded: Kedd.

common: in moist ground of moderate acidity, often with *J. effusus* and sometimes more conspicuous than it on the raised beaches.

Juncus effusus **20**

Common Rush

First recorded: Kedd.

ubiquitous in all kinds of moist ground where drainage is impeded, except for very impoverished acid heath.

Juncus gerardii **15**

Saltmarsh Rush

common: salt marshes and in moist, turfy places on the shores.

Juncus inflexus

Hard Rush

Henn., F.& M. (Ballochmartin bay), Goulder, Lower resr. Should be looked for.

Juncus maritimus **12**

Sea Rush

First recorded: Kedd.

common around the shore.

Juncus squarrosus **15**

Heath Rush

First recorded: Kedd.

common: on acid moor and heath, especially where impoverished or overgrazed.

Juncus tenuis* **1**

Slender Rush

First recorded 2016 on Farland path.

Juniperus communis **1**

Juniper

First recorded: Kedd., but possibly from Little Cumbrae.

one plant near Glaid stone: status unknown.

Koeleria macrantha **2**

Crested Hair-grass

occasional: in turf on trap dykes, usually near shore.

Laburnum anagyroides* **2**

Laburnum

rare: self-seeded in woodland margins. 2009 (87:05/61), 2011 (76:44/66).

[***Lamium album***

White Deadnettle

F&M. Now extinct?]

Lamium amplexicaule **3**

Henbit

rare: bare ground on verges and field edges.

Lamium confertum **2**

Northern Deadnettle

First recorded: Kedd. (as *L. intermedium*)

rare: disturbed ground.

Lamium hybridum **2**

Cut-leaved Deadnettle

Occasional arable weed

Lamium purpureum **9**

Red Deadnettle

First recorded: Kedd.

occasional: bare ground in waste places, gateways and field edges. A weed of gardens and arable.

Lapsana communis **7**

Nipplewort

First recorded: Kedd.

frequent: wood edges and shady hedgebanks on rich, neutral soils.

Larix decidua* **2**

European Larch

First recorded: F&M.

occasionally planted in the past; sometimes self-seeding, but not established. Now largely supplanted by the two following taxa.

Larix kaempferi* **1**

Japanese Larch

occasionally planted for forestry or amenity, and seeding freely.

Larix x marschlinii* **2**

Hybrid Larch

occasionally planted and seeding freely.

Lathyrus grandiflorus* **1**

Two-flowered Everlasting-pea

rare: established on foreshore near Fintry.

[***Lathyrus linifolius***

Bitter Vetchling

F&M. Unconfirmed; possible error.]

Lathyrus pratensis **20**

Meadow Vetchling

First recorded: Kedd.

very common: scrub, hedges and coarse grassland.

[***Lavatera arborea***

Tree Mallow

Kedd., Henn. Extinct.]

Lemna minor **5**

Common Duckweed

First recorded: Kedd.

occasional: still or slow water in ponds and ditches.

Lemna trisulca **1**

Ivy-leaved Duckweed

rare casual: very locally abundant in flooded quarry at Doughend for several years from 2006: did not persist.

[***Leontodon saxatilis***

Hairy Hawkbit

Kedd. (as *L. taraxacum*) Needs confirmation.]

[***Lepidium coronopus***

Swine Cress

Kedd., Henn.; Richards. Needs confirmation. Possible confusion with next species.]

Lepidium didymum **6**

Lesser Swine-cress

occasional: a weed of cultivation and in trampled or bare places.

Lepidium draba* **1**

Hoary Pepperwort

First recorded: Grierson c.1913.

local: abundant on foreshore in West Bay.

[***Lepidium latifolium****

Dittander

F&M. Unconfirmed; possible error.]

Leucanthemum vulgare **2**

Ox-eye Daisy

First recorded: Kedd.

rare: in base rich turf on roadsides and foreshores.

Leymus arenarius **8**

Lyme Grass

frequent: sandy shores; colonial and locally abundant.

Ligusticum scoticum **7**

Scots Lovage

First recorded: Kedd.

frequent: rocky crevices on the shores.

Ligustrum ovalifolium* **2**

Garden Privet

very locally self-seeded on foreshore.

Ligustrum vulgare* **1**

Wild Privet

First recorded: Kedd.

occasional: long surviving as a remnant of hedging, but scarcely naturalised.

Lilium pyrenaicum* **1**

Pyrenean Lily

Casual of garden origin, Farland 2012.

[*Linarea vulgaris*

Common Toadflax

Kedd., F&M. Extinct or casual.]

Linum catharticum **7**

Fairy Flax

First recorded: Kedd.

occasional in base-rich turf.

Littorella uniflora **3**

Shoreweed

First recorded: Kedd.

local: in shallow water around reservoir margins, often exposed in dry seasons. Goulder: Minnemoer.

Lolium perenne **18**

Perennial Rye-grass

First recorded: Kedd.

very common: leys and pastures, verges and waste ground on the richer soils.

Lonicera nitida* **1**

Wilson's Honeysuckle

Casual near Standing Stone Plantation.

Lonicera periclymenum **17**

Honeysuckle

First recorded: Kedd.

common: in woods and scrub and on cliffs and rocky places on all types of soil, but especially abundant in mildly acidic ground.

Lotus corniculatus **19**

Common Birdsfoot-trefoil

First recorded: Kedd.

very common: well drained short turf with some base-richness.

Lotus pedunculatus **18**

Greater Birdsfoot-trefoil

First recorded: Kedd.

very common: moist ground, especially with impeded drainage, hedge and stream-banks and marshy places.

Luzula campestris **16**

Field Woodrush

First recorded: Kedd.

very common: short turf in lawns, verges, by the shore and where sheep graze. Tolerant of leaching.

Luzula multiflora **17**

Heath Woodrush

common: marshes, damp moors and heaths.

Luzula pilosa **9**

Hairy Woodrush

First recorded: Kedd.

frequent: on free-draining banks in moderately acid woods, heaths and grassland.

- Luzula sylvatica*** **13**
Great Woodrush
 First recorded: Kedd.
 common: woods, cliffs and slopes.
- Lychnis flos-cuculi*** **14**
Ragged Robin
 First recorded: Kedd.
 frequent and sometimes abundant in base-rich marshes and flushes, especially near the shore
- Lycium barbarum****
Duke of Argyll's Tea-tree
 Kedd.; Richards, Farland, W side.
- Lycopersicon esculentum**** **1**
Tomato
 a shoreline casual, ripening fruit in warm summers.
- [***Lycopodium clavatum***
Stag's-horn Club-moss
 Kedd., Suth. S of Clashfarland point (he mentions carpets on Little Cumbrae). Needs confirmation.]
- Lycopus europaeus*** **11**
Gipsywort
 First recorded: Kedd.
 frequent: fens and marshes with some enrichment, usually near shore.
- Lysimachia nemorum*** **9**
Yellow Pimpernel
 First recorded: Kedd.
 frequent: moist woodland and shady streambanks or flushed, marshy ground.
- Lysimachia nummularia****
Creeping Jenny
 First recorded: Kedd. (Introduced)
- Lysimachia punctata**** **3**
Dotted Loosestrife
 locally established near houses and by shore.
- Lysimachia vulgaris*** **1**
Yellow Loosestrife
 local:fen on NW raised beach.
- Lythrum portula*** **4**
Water Purslane
 First recorded: Kedd.
 occasional: bare ground on loch margins and by ponds.
- Lythrum salicaria*** **8**
Purple Loosestrife
 First recorded: Kedd.
 occasional: scattered in fenny places.
- Malus pumila**** **4**
Apple
 occasional: planted or self-sown in wood edges and hedgerows.
- [***Malva moschata****
Musk Mallow
 Balf. Extinct or record refers to Little Cumbrae.]
- [***Malva sylvestris****
Common Mallow
 Kedd., Lee, F&M. Extinct or rare casual.]
- Matricaria discoidea**** **12**
Pineapple Weed
 frequent: bare ground in gateways, paths, pavement edges and waste ground.
- Meconopsis cambrica**** **1**
Welsh Poppy
 naturalised: on shady banks around Millport.

<i>Medicago lupulina</i>	2
<i>Black Medick</i>	
First recorded 2015: roadside near Mid Kirkton (55:83/11)	
[<i>Melampyrum pratense</i>	
<i>Common Cow-wheat</i>	
Kedd., Henn. Extinct or possibly overlooked, or only in Little Cumbrae.]	
<i>Melica uniflora</i>	1
<i>Wood Melick</i>	
First recorded: Kedd.	
rare: cliff woodland N of Bell Craig.	
<i>Mentha aquatica</i>	17
<i>Water Mint</i>	
First recorded: Kedd.	
very common: moist and wet fenny places and marshes that are not too acidic.	
<i>Mentha arvensis</i>	3
<i>Corn Mint</i>	
First recorded: Kedd.	
locally abundant in reservoir area.	
<i>Mentha spicata</i>*	4
<i>Spear Mint</i>	
occasional: established on rough ground.	
<i>Mentha x verticillata</i>	2
<i>Whorled Mint</i>	
Reservoir area.	
<i>Mentha x piperta</i>*	
<i>Peppermint</i>	
Richards.	
<i>Mentha x villosa var. alopecuroides</i>*	2
<i>Apple Mint</i>	
locally established on foreshore.	
<i>Menyanthes trifoliata</i>	6
<i>Bogbean</i>	
First recorded: Kedd.	
occasional: pools in bogs and wet acid marshes.	
<i>Mercurialis perennis</i>	9
<i>Dog's Mercury</i>	
occasional: woods and scrub on enriched, neutral soils.	
[<i>Mertensia maritima</i>	
<i>Oyster Plant</i>	
Balf., Kedd., Henn. Extinct.]	
<i>Milium effusum</i>	1
<i>Wood Millet</i>	
First recorded 2015. Wiith <i>Melica uniflora</i> in cliff woodland (67:29/47).	
<i>Moehringia trinervia</i>	7
<i>Three-veined Sandwort</i>	
First recorded: Kedd.	
frequent but seldom abundant in slightly nutrient-rich woodland, often under elm or sycamore.	
<i>Molinia caerulea</i>	18
<i>Purple Moor-grass</i>	
First recorded: Kedd.	
common: moist acid ground on moors and heaths and in acid marshes and woodland.	
<i>Montia fontana</i>	9
<i>Water Blinks</i>	
First recorded: Kedd.	
frequent: wet or moist bare and grassy places.	
<i>Myosotis arvensis</i>	11
<i>Field Forgetmenot</i>	

First recorded: Kedd.

frequent: dry waste ground, sandy pastures and as a garden weed.

Myosotis discolor **12**

Changing Forgetmenot

First recorded: Kedd.

frequent: wet or dry bare and trampled ground.

Myosotis laxa **12**

Tufted Forgetmenot

First recorded: Kedd.

frequent: neutral to mildly acidic marshes, streams and ditches.

Myosotis scorpioides

Water Forgetmenot

First recorded: Kedd.

Rhind, Goulder: needs confirmation, not refound by BSBI.

Myosotis secunda **10**

Creeping Forgetmenot

First recorded: Kedd.

frequent: moderately acidic marshes, ditches, sluggish burns and wet pastures.

Myrica gale **4**

Bog Myrtle

First recorded: Kedd.

occasional: locally abundant in wet heaths on the western raised beaches.

[***Myriophyllum spicatum***

Spiked Water-milfoil

Kedd. Unconfirmed: extinct?]

Myriophyllum alterniflorum **1**

Alternate Water-milfoil

rare: in Minnemoer.

Myrrhis odorata*

Sweet Cicely

First recorded: Kedd.

BSBI 1999. Not seen since.

Narcissus agg.* **6**

Daffodil

planted and established widely.

Nardus stricta **14**

Mat Grass

First recorded: Kedd.

frequent: rather dry, acidic grazings and degenerate heath.

Narthecium ossifragum **14**

Bog Asphodel

First recorded: Kedd.

frequent: wet places on heaths and in bogs and acid marshes.

Neottia cordata **2**

Lesser Twayblade

First recorded: Kedd.

very local: heath S (and E) of Glaid stone, in quantity.

Neottia ovata **6**

Common Twayblade

First recorded: Kedd.

occasional: verges, shady places and foreshores.

[***Nymphaea alba***

White Water-lily

F. & M. Needs confirmation: possibly extinct.]

Odontites vernus **10**

Red Bartsia

First recorded: Kedd.

occasional: rough grassy and weedy places, sometimes on foreshores.

Oenanthe crocata **15**

Hemlock Water-dropwort

First recorded: Kedd.

common: ditches, burnsidings, fens and marshes which are not too acidic. Often very abundant near sea.

[*Oenanthe fistulosa*

Tubular Water-dropwort

Lee 1933; Rhind: rare. An error: confused with *O. lachenalii*.]

Oenanthe lachenalii **9**

Parsley Water-dropwort

First recorded: Kedd.

frequent: brackish marshes and freshwater flushes close to shore.

[*Ononis spinosa*

Spiny Restharrow

? Extinct?]

[*Ononis repens*

Restharrow

Kedd. Extinct]

[*Ophioglossum vulgatum*

Adder's Tongue

Balf., Kedd., Henn., Lee. Needs confirmation.]

[*Orchis mascula*

Early Purple-orchid

First recorded: Kedd.

Suth. Farland to Clashfarland. Needs confirmation.]

Oreopteris limbosperma **8**

Mountain Fern

First recorded: Kedd. (as *Lastrea Oreopteris*, Presl.)

frequent: upland banks and verges in acid ground.

[*Origanum vulgare*

Marjoram

F.& M. Unconfirmed: possible horticultural casual.]

Ornithogalum umbellatum* **5**

Star of Bethlehem

occasionally naturalised in open woods and grassland.

Ornithopus perpusillus **2**

Bird's-foot

very local on sandy foreshores.

Osmunda regalis **2**

Royal Fern

First recorded: Stalk., Kedd.

rare: one large plant near Clashfarland known since 1980s, and juvenile on Farland, first seen 2012, a second plant nearby 2018

Oxalis acetosella **16**

Wood-sorrel

First recorded: Kedd.

common: woodland and shady places, even in spruce plantations, tolerating quite high acidity.

Oxalis corniculata* **1**

Weed in Millport 2010.

Papaver dubium **3**

Long Smooth-fruited Poppy

First recorded: F&M.

rare: disturbed ground in Millport.

Papaver orientale*

Oriental Poppy

Richards, SW side, 1996.

Papaver rhoeas **2**

Common Poppy

rare: bare disturbed or sandy ground

Papaver somniferum* **2**

Opium Poppy

First recorded: Rhind.

casual: pathsides and waste ground

[***Parapholis strigosa***

Sea Hard-grass

Boyd 1888, Ewing 1901. Possibly overlooked, needs confirmation.]

Parnassia palustris **3**

Grass of Parnassus

First recorded: Kedd.

occasional: base rich marshes.

Pedicularis palustris **8**

Marsh Lousewort

First recorded: Kedd.

frequent: in sluggish ditches and marshy places.

Pedicularis sylvatica **14**

Heath Lousewort

First recorded: Kedd.

common: heaths and acid hill grassland, often abundant.

Pentaglottis sempervirens* **1**

Evergreen Alkanet

rare: roadside banks and verges, near gardens.

Persicaria amphibia **17**

Amphibious Bistort

First recorded: Kedd.

common: aquatic form in lochs, ponds and slow streams; terrestrial form on shingly foreshores, road verges and in field gateways.

[***Persicaria bistorta****

Bistort

Kedd., Henn., F&M. Needs confirmation.]

Persicaria hydropiper **8**

Water-pepper

First recorded: Kedd.

occasional: moist, bare and often trampled places, especially where cattle drink.

[***Persicaria lapathifolium***

Pale Persicaria

Kedd. Needs confirmation. Probably rare casual.]

Persicaria maculosa **14**

Red-shank

First recorded: Kedd.

frequent: bare ground, field edges and newly sown leys.

Petasites fragrans* **4**

Winter Heliotrope

local: established in Millport area.

Petasites hybridus* **1**

Butterbur

First recorded: Kedd.

rare: colony on waste ground, Mid Kirkton.

Phalaris arundinaceae **10**

Canary Reed

First recorded: Kedd.

frequent: moist, enriched ground by ditches and in fens and marshes.

Phegopteris connectilis

Beech Fern

First recorded: Kedd. (as *Polypodium phegopteris*)

very rare. Kedd., Merryweather 2000, Gavin's Glen. Not refound.

<i>Philadelphus sp.*</i>	1
<i>Mock-orange</i>	
rare garden throw-out: by Farland path to Station.	
<i>Phleum pratense</i>	7
<i>Timothy Grass</i>	
frequent: fields and roadsides on the richer soils.	
<i>Phragmites australis</i>	3
<i>Common Reed</i>	
First recorded: Kedd.	
local: colonies in wet, base-rich areas on the raised beaches.	
<i>Picea abies*</i>	2
<i>Norway Spruce</i>	
occasionally planted.	
<i>Picea sitchensis*</i>	4
<i>Sitka Spruce</i>	
planted for forestry and self-seeding readily.	
[<i>Picris echioides</i>	
<i>Bristly Ox-tongue</i>	
casual: Conacher, 1957.]	
<i>Pilosella aurantiaca*</i>	1
<i>Fox and Cubs</i>	
First Richards: near ferry-slip.	
<i>Pilosella officinarum</i>	13
<i>Mouse-ear Hawkweed</i>	
First recorded: Kedd.	
frequent: on trap rocks and in short base-rich turf.	
[<i>Pimpinella saxifraga</i>	
<i>Burnet Saxifrage</i>	
Kedd., Henn. Needs confirmation. Possibly only on Little Cumbrae, as it favours trap rocks.]	
<i>Pinguicula lusitanica</i>	2
<i>Pale Butterwort</i>	
Balf., Kedd., Henn., Ewing, Lee.	
Fens near Gray Craigs/Clashfarland NS 1840 5636 and N of ferry-slip.	
<i>Pinguicula vulgaris</i>	4
<i>Common Butterwort</i>	
First recorded: Kedd.	
occasional: in base rich flushes.	
<i>Pinus nigra*</i>	4
<i>Black Pine</i>	
Occasionally planted in amenity woodland along cliff-slopes.	
<i>Pinus sylvestris*</i>	9
<i>Scots Pine</i>	
First recorded: Kedd., Suth.	
widely planted, especially in the past, for amenity and in mixed woodlands and shelter belts.	
<i>Plantago coronopus</i>	14
<i>Buckshorn Plantain</i>	
First recorded: Kedd.	
common: often abundant around the coast, on rocks and by the roadside.	
<i>Plantago lanceolata</i>	20
<i>Ribwort Plantain</i>	
First recorded: Kedd.	
very common: grassy places on circumneutral soil.	
<i>Plantago major</i>	19
<i>Greater Plantain</i>	
First recorded: Kedd.	
very common: bare and disturbed ground, pathways, gateways and roadsides where there is some enrichment.	
<i>Plantago maritima</i>	15

Sea Plantain

First recorded: Kedd.

common all round the coast, on rocky, shingly and sandy shores and in salt marshes.

Platanthera bifolia **1**

Lesser Butterfly-orchid

First recorded: Kedd.

rare: raised beach heaths on the Farland.

Platanthera chlorantha

Butterfly Orchid

Kedd.; Henn.; Rhind: occasional, Richards, one spike S of Hush-hush, 1993.

Poa angustifolia

Narrow-leaved Meadow-grass

Richards, verge opposite Station.

Poa annua **20**

Annual Meadow-grass

First recorded: Kedd.

very common: bare ground on verges, tracks, field edges and in trampled places.

Poa nemoralis **1**

Wood Meadow-grass

First recorded: Kedd.

Millport, George St., E end, 2008, first record since Kedd.

***Poa pratensis* agg.** **19**

Smooth Meadow-grass

First recorded: Kedd.

common: fields and open grassy places. Most records refer to *P. humilis*.

Poa trivialis **17**

Rough Meadow-grass

First recorded: Kedd.

very common: road verges, hedgerows, marshes, woods and scrub.

Polygala serpyllifolia **9**

Heath Milkwort

First recorded: Kedd. (as *P. vulgaris*, the agg.)

frequent and locally abundant in damp heath, among hill turf and on rocky foreshores.

Polygala vulgaris

Common Milkwort

Henn., Rhind: occasional; Richards, Lion rock fen.

[*Polygonatum multiflorum**

Solomon's Seal

Rhind: rare. Probable error for *P. hybridum*.]

Polygonum arenastrum **14**

Equal-leaved Knotgrass

frequent: verges and gateways, trampled pathways and tracks, and around cattle feeders. Apparently commoner than *P. aviculare*.

Polygonum aviculare **8**

Knotgrass

First recorded: Kedd.

occasional: waste ground, field edges and newly sown leys.

Polygonum oxyspermum **1**

Ray's Knotgrass

First recorded: Kedd. (as *P. Raii*).

rare: sandy beach in Millport.

***Polypodium* agg.** **19**

Polypody

First recorded: Kedd.

common: on rocks, walls, banks and as an epiphyte. *P. vulgare* (First recorded: F&M) is common in exposed situations such as cliffs and boulders, as well as walls. *P. interjectum* is frequent in moist cliff woodland.

Polystichum aculeatum **2**

Hard Shield-fern

First recorded: Kedd.

rare: damp, shady rocks flushed with base-rich water in western fossil-cliff woodland.

Polystichum setiferum **4**

Soft Shield-fern

First recorded: Kedd., (as *P. angulare*), Henn.

local: fossil cliff woodland with some base-richness; abundant in colonies, as on Ninian Brae.

Populus alba* **3**

White Poplar

local: well established at Fintry

Populus tremula **2**

Aspen

First recorded: Kedd.

local: clones forming small wood on cliffs N of Bell Craig and S of Fintry.

Potamogeton alpinus **1**

Red Pondweed

Lower reservoir.

Potamogeton berchtoldii **1**

Small Pondweed

local: resr.

Potamogeton crispus **1**

Curled Pondweed

local: resr.

Potamogeton gramineus **2**

Various-leaved Pondweed

Reservoirs.

[***Potamogeton lucens***

Shining Pondweed

Kedd., F.& M. Needs confirmation.]

Potamogeton natans **4**

Broad-leaved Pondweed

First recorded: Kedd.

occasional: in lochs and ponds with circumneutral water.

Potamogeton polygonifolius **7**

Bog Pondweed

First recorded: Kedd. (as *P. oblongus*)

occasional: in ditches, pools, ponds and soakways with moderately to strongly acid water.

Potentilla anglica **2**

Trailing tormentil

First recorded: Kedd. (as *P. β reptans*)

occasional: roadside banks and verges.

Potentilla anserina **20**

Silverweed

First recorded: Kedd.

very common: sandy and shingly shores and foreshores, roadsides and in short base-rich turf and circumneutral marshes.

Potentilla erecta **19**

Tormentil

First recorded: Kedd.

very common in heath, bog, marsh and acid grassland.

Potentilla reptans **3**

Creeping Cinquefoil

occasional: rough ground, Portachur/Doughend area and near ferry slip.

Potentilla sterilis **2**

Barren Strawberry

First recorded: Kedd. (as *P. fragariastrum*, Ehrh.)

rare: partially shaded banks of moderate acidity.

- Primula vulgaris*** **16**
Primrose
 First recorded: Kedd.
 common: moist, shady banks in woods and by burns; sometimes on open cliffs, and in flushes by the shore.
- Prunella vulgaris*** **18**
Selfheal
 very common in moist grassland, marshes and woodland, where there is some enrichment.
- Prunus avium*** **3**
Gean
 Stirling 1972: western woods, confirmed 2010.
 Planted occasionally in amenity woodland.
- Prunus laurocerasus**** **1**
Cherry-laurel
 planted and surviving; rarely if ever self-sown but spreading by layering.
 [***Prunus padus***
Bird Cherry
 Kedd., Henn. Unconfirmed, possibly extinct or Little Cumbrae only.]
- Prunus spinosa*** **16**
Blackthorn
 First recorded: Kedd.
 common: bushy and rocky places, especially fossil cliffs. Demands some base-richness.
- Pteridium aquilinum*** **19**
Bracken
 First recorded: Stalk., Kedd.
 very abundant and often dominant on the raised beaches and cliffs, in woods and on the foreshore.
- Puccinellia maritima*** **10**
Common Saltmarsh-grass
 First recorded: Kedd. (as *Sclerochloa mar.*)
 frequent: salt marshes and muddy patches on the tideline. Locally abundant.
- [***Pyrola minor***
Wintergreen
 Balf. Unconfirmed: record may refer to Little Cumbrae.]
- [***Pyrola intermedia***
Intermediate Wintergreen
 Balfour, Kedd. Probable error?.]
- Quercus petraea**** **2**
Sessile Oak
 occasionally planted, as near cathedral.
- Quercus petraea/robur agg.*** **10**
Pedunculate/Sessile Oak
 First recorded: Kedd.
 frequent: woods and cliff-side scrub where the soil is of moderate acidity, both planted and semi-natural. Both species occur, but most specimens are somewhat intermediate.
- [***Radiola linoides***
All-seed
 Kedd., Henn. Not found since, but possibly overlooked. Needs confirmation.]
- Ranunculus acris*** **20**
Meadow Buttercup
 First recorded: Kedd.
 very common: circumneutral marshes and damp pasture, ditches and verges.
- Ranunculus aquatilis***
Water Crowfoot
 First recorded: Kedd., Suth. Farland 'where water collects', Rhind: occasional; Richards, dam E of Minnemoer.
- Ranunculus bulbosus*** **8**
Bulbous Buttercup
 First recorded: Kedd.
 frequent: well drained grassy places on the foreshores.
- Ranunculus flammula*** **18**

Lesser Spearwort

First recorded: Stalk., Kedd.

common: somewhat acidic marshes, wet pasture and ditches.

***Ranunculus hederaceus* 16**

Ivy-leaved Crowfoot

First recorded: Kedd.

frequent: shallow water and muddy places.

[***Ranunculus lingua***

Great Spearwort

F.& M. Probable error.]

[***Ranunculus omiophyllus***

Round-leaved Crowfoot

Henn., Ewing, F&M. Needs confirmation.]

***Ranunculus repens* 20**

Creeping Buttercup

First recorded: Kedd.

very common: marshes, verges and moist grassland wherever slightly enriched.

***Ranunculus sceleratus* 2**

Celery-leaved Buttercup

First recorded: Kedd.

local; damp pasture, Ballochmartin.

[***Ranunculus trichophyllus***

Thread-leaved Water-crowfoot

Henn. Extinct?]

[***Raphanus raphanistrum***

Wild Radish

Henn., Kedd., F&M. Probably rare casual, needs confirmation.]

***Raphanus raphanistrum ssp maritimus* 16**

Sea Radish

First recorded: Henn.

common: often abundant on sandy or shingly foreshores.

***Reseda luteola** 1**

Weld

casual on disturbed soil in West bay.

***Rhinanthus minor agg.* 15**

Yellow Rattle

First recorded: Kedd.

frequent: in grass on foreshores and roadsides; locally abundant.

***Rhododendron ponticum** 10**

Purple Rhododendron

frequent: extensively planted in gardens and shrubberies and invasively regenerating in woods and heathland.

***Ribes nigrum** 2**

Black Currant

rare: damp woodland and shady marshy ground.

***Ribes rubrum** 1**

Redcurrant

rare: hedgerow on Kames Street, 2015.

***Ribes sanguineum** 1**

Flowering Currant

Occasionally self-seeding/bird-sown.

***Ribes uva-crispa** 3**

Gooseberry

occasional: in woodland or scrub on neutral soils

***Rorippa nasturtium-aquaticum agg.* 14**

Watercress

First recorded: Stalk.

frequent: sluggish ditches, streams and pools. Both *R. microphylla* and *R. nast-aqu. s.s.* seem to be frequent.

***Rorippa x sterilis* 1**

Hybrid Watercress

occasional: habitat as parents.

[***Rorippa islandica***

Marsh Yellow-cress

F&M. Probably *R. palustris* or *sylvestris*, neither otherwise recorded.]

Rosa canina **11**

Dog Rose

First recorded: Kedd. (for the agg.)

frequent: woods and hedges, preferring some shade. The commonest glabrous rose.

***Rosa caesia* agg.** **11**

Glaucous Rose

frequent: hedges, cliffs and rocky places. Introgresses to *R. canina* and *sherardii*.

Rosa mollis **5**

Downy Rose

occasional: hedges, scrub and rocky places, usually less nutrient-rich. Most frequent on trap rock.

Rosa spinosissima **11**

Burnet Rose

First recorded: Kedd.

frequent: coarse and scrubby vegetation on foreshores and cliffs.

Rosa rubiginosa* agg. **3**

Sweetbriar

First recorded: Kedd.

occasional: hedges, perhaps not native.

Rosa rugosa* **8**

Japanese Rose

occasional: naturalised on the foreshores.

Rosa sherardii **10**

Sherard's Downy-rose

occasional: hedges, scrub and rocky places.

***Rubus fruticosus* agg.** **20**

Bramble

First recorded: Kedd.

very common: hedgerows, cliffs, waste ground and on the raised beaches wherever there is some enrichment. The following microspecies have been recorded recently:

R. boudicca, very common (14)

R. dumnoniensis, rare (1)

R. hebridensis, occasional (3)

R. latifolius, occasional (5)

R. lindleianus, frequent (9).

R. nemoralis, common (12).

R. pictorum, rare (1)

R. polyanthemus, very common (17)

R. radula, frequent (9)

R. scoticus, rare (2)

R. ulmifolius, rare (1)

Rubus idaeus **10**

Raspberry

First recorded: Kedd.

common: mildly acid banks and scrubby places.

Rumex acetosa **20**

Common Sorrel

First recorded: Kedd.

very common: all kinds of grassy places with a degree of enrichment and moisture.

Rumex acetosella **17**

Sheep's Sorrel

First recorded: Kedd.

common: dry places on rather impoverished and acidic ground.

Rumex conglomeratus **1**

Clustered Dock

rare: marsh near sewage works.

Rumex crispus **17**

Curled Dock

First recorded: Kedd.

common: shores and foreshores, occasionally on verges and in waste places away from the shore.

Rumex longifolius **2**

Water Dock

roadside N of Hush-hush 2015 and near reservoir.

Rumex obtusifolius **19**

Broad-leaved Dock

First recorded: Kedd.

very common: grassy and disturbed ground, wherever the soil is rich.

Rumex sanguineus **10**

Wood Dock

First recorded: Kedd.

frequent: woodlands and shady banks where soil is neutral, damp and slightly enriched.

***Sagina apetala* agg.** **5**

Upright Pearlwort

occasional on lime-mortared walls and pavements. Segregates have not been recorded.

Sagina nodosa **9**

Knotted Pearlwort

First recorded: Kedd.

fairly frequent in base-rich freshwater flushes on shoreline.

Sagina procumbens **18**

Procumbent Pearlwort

First recorded: Kedd.

ubiquitous on bare ground where not too acidic, walls and pavements, banks, shores and as a garden weed.

Sagina subulata **2**

Heath Pearlwort

First recorded: Kedd.

rare: shore rocks in the west.

***Salicornia* agg.** **2**

Glasswort

First recorded: Kedd.

local: salt pans near White Bay and West bay.

Salix aurita **14**

Eared Willow

First recorded: Kedd.

common: all kinds of damp and wet ground; more tolerant of acidity than *S. cinerea*.

Salix caprea **7**

Goat Willow

occasional: roadsides, damp woodland where not too acidic. Hybridises with *S. cinerea* and *S. aurita*.

Salix cinerea **17**

Grey Willow

common: moist ground wherever not too acidic. Variable in leaf shape and other characters.

Salix pentandra* **1**

Bay Willow

First recorded: Kedd.

rare, near White Bay

[***Salix repens***

Creeping Willow

Kedd., Henn. Needs confirmation.]

Salix viminalis* **4**

Osier

First recorded: Kedd.

locally established near Farland and planted at Portachur.

Salix x multinervis **4**

Grey Willow x Eared Willow

occasional.

Salix x reichardtii **2**

hybrid of Goat Willow and Grey willow

occasional.

[***Salsola kali***

Saltwort

Henn. Extinct.]

Sambucus nigra **18**

Common Elder

First recorded: Kedd.

very common: wood edges, scrub and hedges on enriched soils.

[***Sambucus ebulus***

Danewort

Lee. Extinct?]

Samolus valerandi **13**

Brookweed

First recorded: Kedd.

common: in flushes of base-rich fresh water where subject to saline influence, hence just above HWM. Also roadside gutters and pavement edges.

Sanicula europaea **4**

Sanicle

First recorded: Kedd.

occasional: damp woods, mainly on western cliffs.

[***Saxifraga hypnoides****

Dovedale Moss

Rhind: rare. Probably garden throw-out.]

Schedonorus arundinaceus **11**

Tall Fescue

First recorded: Kedd.

frequent: on well-drained areas of shore and foreshore, forming large tussocks.

Schedonorus pratensis

Meadow Fescue

First recorded: Kedd.

BSBI 1999; Richards. Needs confirmation.

Schoenus nigricans **13**

Black Bog-rush

First recorded: Kedd.

common: base-rich flushes in heath or marsh, often in apparently acid ground.

[***Scleranthus annuus***

Annual Knawel

Kedd. Unconfirmed; possibly overlooked.]

Scorzonerooides autumnalis **18**

Autumn Hawkbit

First recorded: Kedd. (as *Apargia aut.*)

very common: moist grassy places on roadsides and in marshes, salt marshes and damp pastures.

Scrophularia nodosa **10**

Figwort

First recorded: Kedd.

frequent: moist woodland and other shady places on enriched soils.

Scutellaria galericulata **9**

Skullcap

First recorded: Kedd.

frequent: fenny places and moist base-rich ground, especially near shore.

- Sedum acre*** **10**
Biting Stonecrop
 First recorded: Kedd.
 frequent: on bare calciferous rocks or mortar, usually near sea.
- Sedum anglicum*** **13**
English Stonecrop
 First recorded: Kedd.
 common: boulders and outcropping rock on shores, cliffs and elsewhere.
- Sedum telephium**** **2**
Orpine
 First recorded: Kedd.
 rare: on roadside verges near Millport.
- [***Sedum villosum***
Hairy stonecrop
 Henn. Extinct.]
- Selaginella selaginoides*** **2**
Lesser Club-moss
 First recorded: Kedd.
 fen near Gray Craig, 2009. First record since Henn.; also N of ferry-slip.
- Selaginella kraussiana**** **1**
Krauss's Club-moss
 on lawn behind Garrison, first found BSBI 2007, persisted several years but not seen since 2015.
- Senecio aquaticus*** **4**
Marsh Ragwort
 First recorded: Kedd.
 occasional: damp pastures with some enrichment; sometimes abundant among *Juncus effusus*.
- Senecio jacobaea*** **20**
Ragwort
 First recorded: Kedd.
 very common: pastures, roadsides and waste ground.
- Senecio sylvaticus*** **2**
Heath Groundsel
 First recorded: Kedd.
 rare: dry slopes N of Lion rock.
- [***Senecio viscosus****
Sticky Groundsel
 F&M. Requires confirmation.]
- Senecio vulgaris*** **10**
Groundsel
 First recorded: Kedd.
 frequent: waste places, pavement edges and as a garden weed.
- Sherardia arvensis*** **1**
Field Madder
 First recorded: Kedd.
 North of Fairhaven, 2009. First record since Kedd.
- Silene dioica*** **19**
Red Campion
 First recorded: Kedd.
 common in drier woods and hedgebanks where soil is neutral or only mildly acidic.
- Silene latifolia*** **2**
White Campion
 rare: golf club car park and Marine Station.
- Silene uniflora*** **4**
Sea Campion
 First recorded: Kedd.
 occasional: shingly and rocky shores.
- Sinapis arvensis*** **2**

Charlock

First recorded: Kedd.

rare: casual in disturbed ground.

[***Silene noctiflora***

Night flowering Campion

Paterson 1878, Henn. Extinct, probably only ever casual.]

Sisymbrium officinale **3**

Hedge Mustard

First recorded: Stalk., Kedd.

occasional: dry foreshores and verges.

Sisymbrium orientale* **1**

Eastern rocket

rare casual: BSBI 2007, in disturbed ground.

Solanum dulcamara **1**

Woody Nightshade

First recorded: Kedd. Rhind: rare.

Cathedral woods.

Solanum nigrum* **1**

Black Nightshade

Henn., F&M. Refound 5/9/2013: several flowering and fruiting plants on neglected ground on West Bay foreshore (54:65/33)..

Solidago virgaurea **3**

Goldenrod

First recorded: Kedd.

occasional: dry, acid cliffs and rocky places.

Sonchus arvensis **16**

Perennial Sow-thistle

First recorded: Kedd.

common: on shore or foreshore, also on waste ground near the sea and sometimes a garden weed.

Sonchus asper **20**

Prickly Sow-thistle

very common: bare or open waste ground, pavement edges, shores and foreshores, and as a weed in arable fields and gardens.

Sonchus oleraceus **10**

Smooth Sow-thistle

First recorded: Kedd.

frequent: usually near the sea, in walls and pavement edges or among rocks.

***Sorbus aria* agg.** **1**

Common Whitebeam

single tree on N end cliff.

Sorbus aucuparia **15**

Rowan

First recorded: Kedd.

widespread though seldom abundant: woods, scrub and cliffs on heathy ground.

Sorbus intermedia* **4**

Swedish Whitebeam

rare: well naturalised on raised beach N of Doughend.

[***Sparganium emersum***

Unbranched Bur-reed

Kedd., F&M. Needs confirmation.]

Sparganium erectum **4**

Branched Bur-reed

First recorded: Kedd. (as *S. ramosum*)

occasional: reservoir margins and ditches.

[***Sparganium natans***

Least Bur-reed

Kedd.: not recorded subsequently.]

- Spergula arvensis*** **7**
Corn Spurrey
 First recorded: Kedd.
 occasional: on bare, trampled ground.
- Spergularia marina***
Lesser Sea-spurrey
 Suth.; Richards. Needs confirmation on account of possible confusion with *S. media*.
- Spergularia media*** **8**
Greater Sea-spurrey
 occasional in salt marshes.
- [***Spergularia rubra***
Sand Spurrey
 Kedd., Henn., Rob. Possibly overlooked, needs confirmation.]
- Spergularia rupicola***
Rock Sea-spurrey
 Rhind: inner Eilean only.
- Spiraea douglasii**** **1**
Bridewort
 locally established near Farland. Det. R. Pankhurst.
- Spiraea pseudo-salicifolia**** **1**
Confused Bridewort
 locally colonising, Farland.
- Stachys arvensis***
Field Woundwort
 Henn.; Rhind: rare. Possibly overlooked subsequently.
- Stachys palustris*** **11**
Marsh Woundwort
 First recorded: Kedd. (who also recorded the hybrid *x ambigua*)
 occasional: among coarse vegetation in moist places with some enrichment.
- Stachys sylvatica*** **13**
Hedge Woundwort
 First recorded: Kedd.
 frequent: on moist, rich soils in woods and shady places.
- Stellaria graminea*** **17**
Lesser Stitchwort
 First recorded: Kedd.
 very common: rough grassy and scrubby places.
- Stellaria holostea*** **12**
Greater Stitchwort
 First recorded: Kedd.
 common in free-draining hedgebanks, scrub and woodland.
- Stellaria media*** **20**
Common Chickweed
 First recorded: Kedd.
 very common in rich neutral ground in fields, woods and as a garden weed.
- Stellaria uliginosa*** **18**
Bog Stitchwort
 First recorded: Kedd.
 very common in ditches, marshes and moist ill-drained pasture.
- Suaeda maritima*** **5**
Annual Seablite
 First recorded: Kedd.
 local: salt pans near White bay and on West Bay.
- Succisa pratensis*** **19**
Devil's bit Scabious
 First recorded: Kedd.

very common: in moist ground on heaths, moors and in acid marshes.

Symphoricarpos albus* **1**

Snowberry

occasional: established in the vicinity of gardens.

Symphytum officinale **1**

Common Comfrey

First recorded: Kedd.

rare, verges.

Symphytum tuberosum **3**

Yellow Comfrey

occasional: moist shady places, often near shore or habitation.

Symphytum x uplandicum* **3**

Russian Comfrey

occasional: roadside verges and waste ground.

Tanacetum parthenium* **2**

Feverfew

First recorded: Kedd.

occasional: locally established near gardens.

[***Tanacetum vulgare****

Tansy

Kedd., Henn. Extinct, or possibly recorded only from Little Cumbrae.]

Taraxacum agg. **20**

Dandelion

very common: in grass on verges and banks, ruderal and as a garden weed. The following common microspecies were recorded by Richards: *T. unguilobum*, *T. faroense*, *T. duplidentifrons*.

Taxus baccata* **1**

Yew

planted and occasionally self-seeding.

Teucrium scorodonia **16**

Woodsage

First recorded: Kedd.

common: on free-draining, rather acidic soils, in woods and scrub and on cliffs and rocky ground.

Thlaspi arvense

Field Penny-cress

Kedd., Ewing; Richards. Rare casual.

Thymus polytrichus **17**

Wild Thyme

First recorded: Kedd.

common: base-rich turf and rocks, mainly by shore and on trap dykes inland.

Tilia x europea* **5**

Lime

First recorded: Kedd.

occasionally planted in woodland.

Tolmiea menziesii* **1**

Pick-a-back plant

rare: local near Marine Station.

Torilis japonica **3**

Upright Hedge-parsley

First recorded: Kedd.

occasional: roadsides, Portachur area.

[***Tragopogon porrifolius****

Salsify

Kedd., Henn. Extinct, only ever casual.]

Trichophorum germanicum **11**

Deer-grass

First recorded: Kedd. (as *Scirpus caespitosus*)

frequent: wet heaths and the drier parts of bogs.

<i>Trifolium arvense*</i>	1
<i>Hare's-foot Clover</i>	
Kedd., Henn.	
rare; casual near Marine Station.	
[<i>Trifolium aureum*</i>	
<i>Large Trefoil</i>	
Henn. Extinct.]	
<i>Trifolium campestre</i>	1
<i>Hop trefoil</i>	
rare: grassy roadside N of ferry slip.	
<i>Trifolium dubium</i>	17
<i>Lesser Yellow-trefoil</i>	
First recorded: Kedd. (as <i>T. minus</i> Sm.)	
common: among short turf by the shore, and on roadsides and lawns.	
<i>Trifolium hybridum*</i>	1
<i>Alsike Clover</i>	
rare: Portachur area, BSBI 2007.	
<i>Trifolium medium</i>	2
<i>Zigzag Clover</i>	
BSBI 1996.	
occasional: grassy verges, etc.	
[<i>Trifolium micranthum</i>	
<i>Least Yellow-trefoil</i>	
Kedd. (as <i>T. filiformis</i> L.) Unconfirmed.]	
<i>Trifolium pratense</i>	20
<i>Red Clover</i>	
First recorded: Kedd.	
very common: verges and other grassy places with some base-richness, avoiding acid ground.	
<i>Trifolium repens</i>	20
<i>White Clover</i>	
First recorded: Kedd.	
ubiquitous in short turf where there is any element of enrichment.	
<i>Triglochin maritimum</i>	14
<i>Sea Arrow-grass</i>	
First recorded: Kedd.	
common: in saltmarshes and among rocks around the coast.	
<i>Triglochin palustre</i>	11
<i>Marsh Arrow-grass</i>	
First recorded: Kedd.	
frequent: in marshes and wet heaths flushed with base-rich water.	
<i>Tripleurospermum inodorum</i>	2
<i>Scentless Mayweed</i>	
First recorded: Kedd.	
occasional: a ruderal and arable weed.	
<i>Tripleurospermum maritimum</i>	15
<i>Sea Mayweed</i>	
First recorded: Kedd.	
common: all types of shores and foreshores, and as an arable weed in seaside fields.	
<i>Tussilago farfara</i>	15
<i>Coltsfoot</i>	
First recorded: Kedd.	
common: waste and disturbed ground, roadsides, ditches and foreshores, where soil is somewhat enriched.	
<i>Typha latifolia</i>	4
<i>Reedmace</i>	
local: reservoir, first recorded 2003, increasing and spreading as elsewhere in region.	
<i>Ulex europaeus</i>	20

Gorse

First recorded: Kedd.

very common: forming extensive scrub on free-draining slopes.

Ulmus glabra **17**

Wych Elm

First recorded: Kedd.

common: fossil cliff woodland where the soil is base-rich. Also often planted in woodland and hedgerows.

Umbilicus rupestris **13**

Rock Pennywort

First recorded: Kedd.

frequent: on cliffy rocks and banks.

Urtica dioica **20**

Common Nettle

First recorded: Kedd.

very common: woods, disturbed and neglected ground, wherever there is enrichment.

Urtica urens **1**

Small Nettle

First recorded: Kedd.

rare casual: disturbed ground Clashfarland 2007, not persisting..

[***Utricularia minor***

Lesser Bladderwort

Kedd., Henn., Lee, F&M. Needs confirmation.]

[***Utricularia vulgaris agg.***

Bladderwort

Balf., Kedd., Henn., Lee. Needs confirmation.]

Vaccinium macrocarpon* **1**

American blueberry

Casual. First recorded meadow W of Marine Station, 2012 (NS 1745 5443).

Vaccinium myrtillus **18**

Bilberry

First recorded: Kedd.

common: moors and acid woodland, and raised beach heaths.

Vaccinium oxycoccos **2**

Cranberry

first recorded: F.&M. on W raised beach. Goulder, 2006 near Glaid stone.

rare, near Glaid stone.

Valeriana officinalis **10**

Common Valerian

First recorded: Kedd.

occasional: in moist ground and marshes where not too acidic.

[***Valeriana pyrenaica****

Pyrenean Valerian

Kedd. Extinct?]

Valerianella locusta **1**

Cornsalad

First recorded: Kedd.

rare: pavement edges near Doughend.

Verbascum nigrum*

Dark Mullein

Rhind: rare. Not seen since (casual).

Verbascum thapsus **3**

Great Mullein

First recorded: Kedd.

occasional: bare and waste ground.

Veronica agrestis **2**

Green Field-speedwell

First recorded: Kedd.

rare: an arable and garden weed, now much less common than *V. persica*. 2011: (75:27/39)

***Veronica anagallis-aquatica* 2**

Blue Water-speedwell

First recorded: Kedd.

rare: fens on raised beaches N of Doughend. Flower colour pale mauve, suggesting *V. catenata*, but fruit shape indicates this sp.

***Veronica arvensis* 13**

Wall Speedwell

First recorded: Kedd.

common: walls, pavement edges and bare ground; also a garden weed.

***Veronica beccabunga* 8**

Brooklime

First recorded: Kedd.

frequent: shallow flowing water and wet mud in ditches, rivulets and trampled marshy areas.

[*Veronica catenata*

Pink Water-speedwell

Rhind: rare. Probable error for *V. anag-aquat*, q.v.]

***Veronica chamaedrys* 19**

Germander Speedwell

First recorded: Kedd.

very common: road verges and free-draining banks in woodland, hedgerow and grassland.

***Veronica filiformis** 6**

Slender Speedwell

occasional: in short turf on lawns and roadsides. Now thoroughly established.

***Veronica hederifolia** 1**

Ivy-leaved Speedwell

casual: Millport, Church Brae 2003.

***Veronica officinalis* 9**

Heath Speedwell

First recorded: Kedd.

occasional: in well drained moderately acid grassland and among rocks with some base-richness.

***Veronica persica** 8**

Common Field-speedwell

occasional: an arable and garden weed.

***Veronica scutellata* 6**

Marsh Speedwell

First recorded: Kedd.

occasional: in acid marshes.

***Veronica serpyllifolia* 15**

Thyme-leaved Speedwell

First recorded: Kedd.

common: moist bare ground or short turf in fields, roadsides, gardens.

***Vicia cracca* 15**

Tufted Vetch

First recorded: Kedd.

common: hedges, scrub and rough grassy places; also in marshes and salt marshes.

***Vicia hirsuta* 1**

Hairy Tare

First recorded: Kedd.

rare: Ballochmartin.

[*Vicia lathyroides*

Spring Vetch

Henn. Records may refer only to a depauperate form of *Vicia sativa nigra*.]

Vicia sativa ssp sativa*

Fodder Vetch

First recorded: Kedd.

Richards, casual by ferry slip.

Vicia sativa ssp nigra **9**
Common Vetch
 First recorded: Kedd.
 frequent: roadsides and grassy places, especially near shore.

Vicia sepium **17**
Bush Vetch
 First recorded: Kedd.
 common: coarse bushy and grassy places.

Viola arvensis **2**
Field Pansy
 First recorded: Rhind.
 occasional: a weed of arable and disturbed ground.

[***Viola canina***
Heath Violet
 Rob., F&M. Requiring confirmation.]

[***Viola lutea***
Mountain Pansy
 Henn. Extinct.]

[***Viola odorata***
Sweet Violet
 Henn. Extinct?]

Viola palustris **7**
Marsh Violet
 First recorded: Stalk.
 occasional: bogs and acid marshes.

Viola riviniana **18**
Common Dog-violet
 First recorded: Kedd (as *V. canina*)
 common: well drained banks, preferring light shade.

Viola tricolor **1**
Wild Pansy
 rare: disturbed ground below resr.

Vulpia bromoides **3**
Squirreltail Fescue
 occasional: dry banks of thin turf and bare, impoverished soil.

Vulpia myuros **2**
Rat's-tail Fescue
 rare. first recorded 2015 on pavement edge behind Millport.

Zantedeschia aethiopica* **1**
Altar Lily
 First recorded 2006.
 rare: self sown (from garden throw-out?) in marsh near Doughend. Colonising?.

[***Zostera marina agg.***
Eelgrass
 Balf. (var. *angustifolia*), Kedd., Ewing, Rob., Suth. Needs confirmation.]