

FLOWERING PLANTS – MONOCOTYLEDONS

ALISMATACEAE

Sagittaria L.

S. rigida Pursh

Canadian Arrowhead

3 Large stand by small lough at Dunkelly W of Toormore, and single clump in Glan Lough E of Durris 1999, with *Pontederia cordata* at both places (Green 2000a, 2000b, **K**).

Luronium Raf.

L. natans (L.) Raf. (*Alisma natans*, *Elisma natans*) **Floating Water-plantain**

Rare aquatic; recent record from Connemara; the debate, whether native or not, continues.

2, 16, 29.

2, 29 * Killarney, N Kerry and Lough Bofin, Co. Leitrim; confirmed 19th C records (Rich *et al.* 1995).

16 Invermore Lough 1994, locally frequent in peaty water (Rich *et al.* 1995, Preston & Croft 1997, **BEL, DBN, TCD**).

[*Damasonium* Mill.

D. alisma Mill. (*D. stellatum*)

Starfruit

In error for native species (*Cyb 1898*, Reilly 1995).]

HYDROCHARITACEAE

Stratiotes L.

S. aloides L.

Water-soldier

Naturalized for some 200 years, with the main area of distribution around Crom on Upper Lough Erne, Co. Fermanagh and nearby in Co. Cavan lakes; possibly native in that area, and probably introduced at other sites where its occurrence is more fleeting; no evidence that *S. aloides* was ever fashionable or widely available as a garden plant; for details of history, distribution and status, see Forbes (2000).

* Near Crom Castle, Co. Fermanagh 1805, and near Castle Saunderson, Co. Cavan pre-1806; by mid-19th C, “thoroughly at home” in lakes and ditches in both counties; in early 19th C also in Mid Cork, canal near Drogheda, by River Shannon near Portumna and Belfast area; still at Cork site in 1896 (*Cyb 1866*, *Cyb 1898*); last seen in Co. Antrim at Woodburn in 1930 (Fisher 1930, *FNE 1992*).

Cens Cat **4, 33, 39**. Also **30, 32**.

Additional vice-county records:

30 See above (*Cyb 1866*, *Cyb 1898*). Anoneen Lake 1996; Round Lake 1996 (Reilly 2001).

32 Annagheane Lough 1999, within 2 km of the nearest Fermanagh site, abundant (I. McNeill).

Egeria Planch.**E. densa** Planch.**Large-flowered Waterweed**

28 Lough Nasool near Riverstown 1988, vegetative material collected inadvertently with *Lagarosiphon major*, and flowered in garden pond at Rathaberna 1993 (D. Cotton, **DBN**).

Elodea Michx.**E. canadensis** Michx. (*Anacharis alsinastrum*)**Canadian Waterweed**

Widespread and common, mainly lowland; naturalized in lakes, rivers, canals, ditches, turloughs and artificial ponds, spreading vegetatively.

* Pond at Waringstown, Co. Down c.1836; canal near Lisburn for more than 20 years previous to 1864 (there seems to be some confusion as to where it was first found); possibly introduced with other aquatic plants or with timber from Canada (Dickie 1864, *FNE 1888*, *Cyb 1898*); also in a pond in Co. Dublin c.1842 (*FDub 1904*); by 1860s, not infrequent in canals, streams and ponds in many parts of Ireland; abundant in canals near Dublin and Belfast, in Lough Neagh and River Shannon, still spreading and a troublesome weed, e.g. in River Lee below Cork (*Cyb 1866*); in 36 vice-counties by 1900 (*ITB 1901*); following its rapid spread, apparently decreasing in places by end of 19th C and early 20th C (Colgan 1897, *Cyb 1898*, *FDub 1904*). See Simpson (1984) for spread in the British Isles.

Cens Cat **1-34, 36-40**.

E. nuttallii (Planch.) H. St. John**Nuttall's Waterweed**

Occasional, mainly in NE; established in lakes, ponds, rivers and streams, sometimes in rapidly flowing water, spreading vegetatively; at least as frequent as *E. canadensis* on W side of Lough Neagh in 1988, and displaced that species in River Lagan in 1996 (as in Britain, see Simpson 1990); probably introduced with other aquatic plants, and discarded from aquaria or garden ponds; flowering plants noted in tank at National Botanic Gardens and in a Co. Dublin stream. Leaves stiffly recurved or flaccid (see Simpson 1988). Plants looking similar to *E. nuttallii* in W Galway were redetermined as *Hydrilla verticillata* (L. f.) Royle (Scannell & Webb 1976).

Cens Cat **21, 36**. Also **3, 12, 38, 39**.

All records:

3 Macroom 1999, in reservoir (I. Green).

12 W side of River Slaney, S of Macmine Junction 1994; record made by N.F. Stewart (C. Preston); source of map record in Preston & Croft (1997).

21 {National Botanic Gardens 1974, probably imported with cultivated plants (Scannell 1977b, Simpson 1985, **DBN**), also 1976-81 (**DBN**).} Deansgrange stream E of Cabinteely, SW of Ballybrack and where it enters the sea S of Killiney 1985 (Reynolds & O'Reilly 1986, **DBN, TCD**); still S of Killiney 1992 (**TCD**), and E of Cabinteely 1997, 1999 with *Zannichellia palustris* L. (SR). River Dodder at Ballsbridge 1990; mill pond near Dundrum 1994

- (*FDub 1998, DBN*). {Islandbridge 1999, pond in War Memorial Park, probably introduced with *Lagarosiphon major* (SR).}
- 36** * Drumenny, W side of Lough Neagh 1984, in small man-made harbour; also c.2 km S, stranded along shoreline at Ardboe Point (Simpson 1985, **TC**). Additional records along 6 km of shore on W side of Lough Neagh 1988, as frequent as *E. canadensis* there (Weyl *et al.* 1989).
- 38** Reservoir near Burren 1988; Carrickmannan Lough 1990 (*FNE 1992, BEL*).
- 38, 39** River Lagan, Belfast 1987 and between Lisburn and Belfast 1996, displacing *E. canadensis* (Wolfe-Murphy 1997, **BEL**).
- 39** Lough Neagh area 1992 (Beesley 1993a).

Lagarosiphon Harv.

L. major (Ridl.) Moss

Curly Waterweed

Occasional in ponds and lakes, but likely to become more common; spreads vegetatively; in wild habitats mainly since late 1980s, probably escaped or discarded from garden ponds and aquaria; for sale in garden centres as an oxygenating plant, and also introduced for water purification schemes.

4, 5, {6}, 19, 21, {25}, 28, 33, 38, 40.

- 4** * Fitzgerald Park 1966, record made by Dr H.J.M. Bowen, specimen in **BM** (C. Preston); source of map record in Preston & Croft (1997).
- 5** NE of Togher Cross Roads 1992, record made by R. FitzGerald (C. Preston); same record as near Glanworth 1992, in pond with *Nymphoides peltata* (O'Mahony 1998); source of map record in Preston & Croft (1997).
- {**6** Kilmeaden 1999, deliberate introduction with *Myriophyllum aquaticum* into specially constructed wetlands for water purification purposes (J. Caffrey).}
- 19** Near Timahoe 1987-91, small pond in private estate; population grew from discarded aquarium plants (Cotton & Caffrey 2000, **DBN**).
- 21** Pond at Ballinascorney Gap 1989-90, with other exotic aquatic plants (*FDub 1998*), still there 2001 (**DBN**). {War Memorial Park, Islandbridge 1999, probably planted in ponds there (SR).}
- {**25** Strokestown House 2000, abundant in shallow pond in walled garden.}
- 28** Lough Nasool near Riverstown 1988, perhaps introduced by fishermen; plants transferred to garden pond at Rathaberna (Cotton & Caffrey 2000, **BEL, DBN**).
- 33** Tullywanna Lough 1988-90; record made by Northern Ireland Lakes Survey; det. Dr C.D. Preston (S. Wolfe-Murphy).
- 38** Donaghaguy reservoir, N of Warrenpoint 1989; Glastray clay pits 1990 (*FNE 1992, BEL*). {Castlewellan Park 1994, introduced in ornamental pond (**BEL**).}
- 40** Maghadone quarry 2001, no obvious source of introduction (I. McNeill).

APONOGETONACEAE

{ **Aponogeton** L. f.

A. distachyos L. f.

Cape-pondweed

35 Dunlewy Lough near Dunlewy House, "probably cultivated" (**BEL**).}

ARACEAE

Acorus L.

A. calamus L.

Sweet-flag

Rather rare escape from cultivation; established by waterways and lakes, mainly in NE; long known along the Lagan Canal and by Lough Neagh (e.g. Harron 1986, *FNE 1992*).

* Grown in Moira Demesne, Co. Down c.1744, from where it probably spread into the Lagan (More 1872, *Cyb 1898*).

Cens Cat **4, 13, 22, 27, 35, 37-39**. Also {21, 32}, **36**.

Post-1970 and additional vice-county records:

4 By River Bandon below Inishannon Hotel 1982 (O'Mahony 1986).

13 Lake at Ballykealy, Ballon (Booth 1979).

{21 People's Garden, Phoenix Park, "probably planted" (Reilly 1993).}

22 Boyne River, Trim 1984 (**DBN**); and in same area at least 50 years earlier (Praeger 1934b, 1939), also 1950 (**TCD**).

{32 Monaghan town 1900, planted (*ITB 1901*). In lake in Monaghan town post-1994 (I. McNeill).}

36 Shore of Lough Neagh at Brookend 1997 (McNeill 1998).

37 Shore of Lough Neagh (Harron 1974).

38, 39 Lough Neagh, Broadwater, Lagan Canal and River Lagan (*FNE 1992*).

Lysichiton Schott

L. americanus Hultén & H. St. John

American Skunk-cabbage

Occasional escape from cultivation; naturalized along rivers, by lakes, in wet woodland and marshes; assuming pest status in woodland by River Laune in N Kerry.

Cens Cat **5, 38, 39**. Also **1, 2, 18, 21, 40**.

All records:

1, 2 Along both sides of River Laune since 1982; in permanently waterlogged ground at Beaufort in **1**, and several hundred plants in wet woodland at Kilbonane E of Killorglin in **2** (O'Malley 1996).

5 By Awbeg River above and below Castletownroche 1970-74 (O'Mahony 1975). Near Killathy wood 1997, a second River Blackwater population (O'Mahony 1998).

18 * Planted on Woodfield bog c.1930; still there 1985, c.1990, but not spreading (Doyle & Duckett 1985, Lamb 1992).

21 Whitewater Brook, Howth 1991 (C. Brady), also 1995 (SR).

38 Ballynahinch River SE of Montalto 1956, extensive spread there by 1960 (as

- L. camtschaticum* in Carrothers & Moon 1960, Peters 1960), and still there 1989; by same river for 3 km above Kilmore near Crossgar 1987; beside Hillsborough Lake 1980; Clandeboye 1989 (*FNE 1992*).
- 39** By Lough Neagh in several places since 1972 (Harron 1986). Red Hall 1981; Bush River 1986; near Craigs Bridge 1991 (*FNE 1992*, **BEL**).
- 40** The Umbra 1986; near Limavady 1988 (*FNE 1992*).

[*L. camtschaticum* (L.) Schott Asian Skunk-cabbage
Records of this species are referable to *L. americanus* (as *L. camtschaticum* in Carrothers & Moon 1960, Peters 1960).]

Zantedeschia Spreng.

Z. aethiopica (L.) Spreng.

Altar-lily

Rare garden escape or relic of cultivation in W.

1, 3, 16.

- 1** * N side of Kenmare River 1952, cottage gardens “overflowing with white arums” which were becoming naturalized on stony banks nearby (Welch 1953, Clement & Foster 1994).
- 3** Sherkin, Cape Clear, Long and Heir Islands, cultivated and sometimes escaping to walls, hedgebanks and waste ground (Akeroyd 1996). Carravilleen, W of Ahakista 1999, roadside by ruin (P. Green).
- 16** Surviving on Inishshark (Webb & Hodgson 1968).

Arum L.

A. italicum Mill.

Italian Lords-and-Ladies

Occasional garden escape or relic of cultivation; mainly roadsides, also river and canal banks, and derelict gardens; probably all records referable to *A. italicum* subsp. *italicum*.

Cens Cat **21-23**. Also **4, 6, 9, 12, 38**.

All records:

- 4** N bank of River Lee below Sunday’s Well 1996 (O’Mahony 1997). Established in a number of roadside habitats about Dripsey 1999; first recorded in that area 1987 (O’Mahony 2000b). Road verges near Gortageen, Boolypatrick, Aherla, Ballinhassig and Minane Bridge SW of Crosshaven 1999 (I. Green).
- 6** Ardmore 2000, much on roadside (P. Green).
- 9** Near Ballyvaughan 1987, flourishing in derelict garden (Nelson & Walsh 1991, **DBN**).
- 12** Near Carnsore Point 1999, many plants by ruins of old churchyard and some in field between church and sea (I. Green).
- 21** * Carrick Hill, Portmarnock 1956, roadside (**DBN**). Near Balrothery churchyard; by Grand Canal at Ballymakailly Mill; Old Connaught; all 1984 (*FDub 1998*). Dundrum 1994, persistent in old garden (SR).
- 22** No details (Scannell & Synnott 1989).

- 23** Coole 1964, under hedge by rectory avenue (**DBN**).
38 Between Castle Espie and Comber 1976 (*FNE 1992*).

Dracunculus Mill.

D. vulgaris Schott

Dragon Arum

- 21** Walkinstown 1992 (**DBN**); relic of cultivation.

LEMNACEAE

Lemna L.

L. minuta Kunth

Least Duckweed

First noted in 1993 in artificial ponds; rare, but likely to spread; stream, ditches, peat cuttings and bog pools; probably introduced accidentally with other aquatic plants.

4, 6, 9, 21, 28, 38.

- 4** Blarney Castle 1993, ornamental pond (Preston & Croft 1997, Reynolds 2002).
6 Fennor 2000, muddy pool near bog (P. Green). Dromana 2001, pond (Green 2002).
9 Woodpark, SW of Mountshannon 1999, shore of Lough Derg (P. Green).
21 Trinity College Botanic Garden 1993, pond in greenhouse; source not known (**TCD**). Palmerston 1998, stream near River Liffey (Reynolds 2002); more abundant than *L. minor* there (C. Preston).
28 Rathaberna 1993, garden pond which had been stocked from the wild 1987/88; probable source was with aquatic plants from ditches and peat cuttings at Ballyconnell where found with *L. minor* in 1995; still at Ballyconnell and in garden pond 1998 (Cotton 1999, **BEL, DBN**). New site 2000, bog pools (D. Cotton).
38 Tillysburn Urban Wildlife Reserve 1999, abundant in small pond, with other alien plants; not refound there 2001; also abundant in shallow pool by Ballylesson road S of Belfast 2001, where there were no other obvious introductions (S. Wolfe-Murphy).

JUNCACEAE

Juncus L.

J. compressus Jacq.

Round-fruited Rush

Probably introduced (*Cens Cat*).

Rare; near two rivers in damp pasture and on gravel.

Cens Cat **22, 25.**

All records:

- 22** Near River Boyne at Rosnaree and Slane 1968; possibly introduced on footwear of anglers or other visitors (Synnott 1968c, **BEL, DBN**).
25 Bank of River Shannon below lock at Termonbarry 1981 (Synnott 1983, **BEL, DBN**).

J. planifolius R. Br.**Broad-leaved Rush***Cens Cat* 16.

16 First found on S side of Lough Truscan (Truskan) SE of Carna 1971 (Scannell 1973a, **BEL, DBN**). Well established and frequent on Carna-Glinsk peninsula, but scarcely spread beyond this region; frequent in damp habitats, in peaty and mineral soils, by streams, on lake shores and in marshy meadows; produces abundant seed and may have been spread by fishermen or through drainage works; source of introduction not known (Scannell & McClintock 1974, Scannell 1975, 1977a, *FCB* 1983, Conaghan 2000, Scannell & Jebb 2000, **DBN, TCD**).

J. tenuis Willd. (*J. macer*)**Slender Rush**

Fairly common, except in midlands; in damp ground on roadsides, forest tracks and paths; also damp waste ground in Belfast (*FBel* 1997).

* Between Sneem and Caherdaniel, and W of Kenmare, S Kerry 1889 (Scully 1889b); by 1903, locally abundant in S Kerry, also at Killarney in N Kerry, Adrigole in W Cork, Aran Islands and Belfast (Phillips 1894, *Cyb* 1898, *ITB* 1901, Praeger 1904a); Co. Wicklow 1933 (Brunker 1933); apparent rapid spread from 1940s on (e.g. Webb 1945, Carrothers *et al.* 1947a, Chase 1947b, Brunker 1950, Moon 1953, Halliday *et al.* 1967, Kertland 1972, Breen 1973); for a long time considered possibly native in SW (e.g. *Cyb* 1898, Scully 1916, Praeger 1934b, Webb 1952).

Cens Cat 1-3, 5, 9, 11-13, 16, 20, 27, 31, 34, 35, 37-40. Also 4, 6, 36.

Additional vice-county records:

4 By Lee Reservoir 2001, at two locations (O'Mahony 2002).

6 Mostly on forest tracks, but also on roadsides (P. Green).

36 By late 1990s, many records in far W of county bordering Co. Donegal, but scattered elsewhere, e.g. near Coalisland on former canal towpath, former aerodrome near Ardboe and waste ground at Sion Mills (I. McNeill). Baronscourt estate 2001 (McNeill 2002).

Luzula DC.

L. luzuloides (Lam.) Dandy & Wilmott (*L. albida*)

White Wood-rush

Rare; established in estate woodland.

33, 35, 38.

33 Castle Coole 1992, near main gate, not spreading; Florencecourt House 2001, naturalized under trees (R. Northridge).

35 Ards near Dunfanaghy 1955, in wooded estate (**DBN**).

38 * Lenaderg 1903, at border of enclosed plantation in damp shady ground, origin unknown (Davies 1903, **DBN**).

CYPERACEAE

Cyperus L.**C. eragrostis** Lam.**Pale Galingale**

Rare garden escape or discard, capable of establishing itself and spreading.

3-6.

- 3** Just W of Bandon 1999, over 100 clumps on waste ground (Green 2000b).
4 By Lee Reservoir just S of Hartnett's Cross, Macroom 2001, extensive naturalized populations; freely seeding and apparently spreading (O'Mahony 2002). N bank of Lee Reservoir at Lower Dripsey 2001, two plants, on rock outcrop and gravel shore (T. O'Mahony).
5 Castlemartyr 1999, single clump on waste ground outside garden centre (P. Green).
6 * Abbeyside, NE of Dungarvan 1997, single plant on roadside (P. Green).

C. longus L.**Galingale**

Rare garden escape or discard.

6, 21.

- 6** Carrick-on-Suir 2001, patch on riverbank (Green 2002).
21 * Sorrento, Dalkey 1902, few clumps near foot of sea cliffs; garden outcast or deliberate introduction (*FDub 1904*, **DBN**).

POACEAE (Gramineae)

Most of the critical **DBN** specimens were checked by T.B. Ryves in 2000-01.**Semiarundinaria** Nakai**S. fastuosa** (Lat.-Marl. ex Mitford) Makino ex Nakai**Narihira Bamboo**

Rare relic of cultivation.

1, 38.

- 1** * S side of Dingle Harbour 1976, naturalized at edge of damp wood (Ryves *et al.* 1996).
38 Castlewellan Forest Park 1978 (*FNE 1992*, **BEL**).

{ **Yushania** Keng f.**Y. anceps** (Mitford) W.C. Lin (*Sinarundinaria anceps*)**Indian Fountain-bamboo**Murrisk Abbey in 27, and Downpatrick in 38 (Ryves *et al.* 1996); presumably persistent and thicket-forming. }{ **Thamnocalamus** Munro**T. spathiflorus** (Trin.) Munro

- 1** Glanleam on Valencia Island and Rossdohan gardens, covering large areas (Ryves *et al.* 1996). }