

CHECKLIST OF SUBMERGED AND FLOATING AQUATIC PLANTS - BEDS, OLD CAMBS, HUNTS, NORTHANTS AND PETERBOROUGH

Scientific name	Common Name	Beds	old Cambs	Hunts	Northants and P'boro	Ellenberg N
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PLANTS WITH SIMPLE, MORE OR LESS LINEAR UNDERWATER LEAVES; FLOATING OR EMERGENT LEAVES MAY BE BROADER

Linear leaves only

<i>Eleogiton fluitans</i>	Floating Club-rush	absent	rare	very rare	extinct	2
<i>Juncus bulbosus</i>	Bulbous Rush	very rare	rare	rare	very rare	2
<i>Lagarosiphon major</i>	<i>Curly Waterweed</i>	<i>occasional</i>	<i>occasional</i>	<i>very rare</i>	<i>very rare</i>	6 +
<i>Potamogeton acutifolius</i>	Sharp-leaved Pondweed	absent	absent	absent	extinct	6
<i>Potamogeton berchtoldii</i>	Small Pondweed	rare	occasional	rare	occasional	5
<i>Potamogeton compressus</i>	Grass-wrack Pondweed	extinct	rare	rare	occasional	4 +
<i>Potamogeton friesii</i>	Flat-stalked Pondweed	very rare	occasional	rare	very rare	5
<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	very rare	absent	absent	rare	5 +
<i>Potamogeton pectinatus</i>	Fennel Pondweed	frequent	frequent	frequent	frequent	7 +
<i>Potamogeton pusillus</i>	Lesser Pondweed	occasional	occasional	occasional	occasional	6
<i>Potamogeton trichoides</i>	Hairlike Pondweed	extinct	occasional	very rare	very rare or extinct	6
<i>Ruppia cirrhosa</i>	Spiral Tasselweed	absent	extinct	absent	absent	5
<i>Zannichellia palustris</i>	Horned Pondweed	occasional	frequent	occasional	frequent	7 +
<i>Zostera marina</i>	Eelgrass	absent	very rare or extinct	absent	absent	6

Broad-leaved floating rosettes/leaves may be present

<i>Callitriche brutia</i> ssp. <i>hamulata</i>	Intermediate Water-starwort	occasional	absent	very rare	occasional	5
<i>Callitriche obtusangula</i>	Blunt-fruited Water-starwort	occasional	occasional	occasional	occasional	6
<i>Callitriche platycarpa</i>	Various-leaved Water-starwort	occasional	occasional	occasional	occasional	7
<i>Potamogeton natans</i>	Broad-leaved Pondweed	frequent	frequent	frequent	frequent	4

Emergent stems or leaves may be present

<i>Alisma plantago-aquatica</i>	Water-plantain	frequent	frequent	frequent	frequent	7
<i>Hippuris vulgaris</i>	Mare's-tail	rare	occasional	occasional	occasional	4
<i>Sagittaria sagittifolia</i>	Arrowhead	frequent	frequent	frequent	frequent	6
<i>Schoenoplectus lacustris</i>	Bulrush	frequent	frequent	frequent	frequent	6
<i>Sparganium emersum</i>	Unbranched Bur-reed	occasional	frequent	occasional	occasional	6
<i>Sparganium natans</i> (S.minimum)	Least Bur-reed	absent	very rare	extinct	very rare	3

PLANTS WITH THREAD-LIKE STEMS, NO OBVIOUS LEAVES

<i>Eleocharis acicularis</i>	Needle Spike-rush	extinct	rare	very rare	occasional	5
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PLANTS WITH MOST OR ALL LEAVES SIMPLE, BROAD & UNLOBED

All leaves submerged

<i>Elodea canadensis</i>	Canadian Pondweed	frequent	frequent	frequent	occasional	6
<i>Elodea nuttallii</i>	Nuttall's Pondweed	occasional	frequent	frequent	occasional	7
<i>Groenlandia densa</i>	Opposite-leaved Pondweed	rare	occasional	rare	occasional	5 +
<i>Lemna trisulca</i>	Ivy-leaved Duckweed	frequent	frequent	frequent	frequent	5 +
<i>Potamogeton crispus</i>	Curled Pondweed	frequent	frequent	frequent	frequent	6
<i>Potamogeton lucens</i>	Shining Pondweed	occasional	frequent	occasional	frequent	6
<i>Potamogeton perfoliatus</i>	Perfoliate Pondweed	occasional	frequent	frequent	frequent	5
<i>Potamogeton praelongus</i>	Long-stalked Pondweed	very rare or extinct	very rare	very rare	rare	5

Submerged and floating leaves may be present

<i>Callitriche stagnalis</i>	Common Water-starwort	frequent	frequent	frequent	frequent	6
<i>Nuphar lutea</i>	Yellow Water-lily	frequent	frequent	frequent	frequent	6
<i>Potamogeton alpinus</i>	Red Pondweed	extinct	very rare or extinct	absent	very rare	5
<i>Potamogeton coloratus</i>	Fen Pondweed	absent	occasional	occasional	very rare	5
<i>Potamogeton gramineus</i>	Various-leaved Pondweed	absent	very rare	very rare	extinct	3
<i>Potamogeton polygonifolius</i>	Bog Pondweed	extinct	extinct	extinct	absent	2

All leaves floating

<i>Aponogeton distachyos</i>	Cape-pondweed	absent	absent	absent	very rare	not given
<i>Hydrocharis morsus-ranae</i>	Frogbit	extinct	occasional	occasional	extinct, also very rare introd.	7
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	absent?	occasional	rare	rare	7
<i>Nymphaea alba</i>	White Water-lily	frequent	occasional	occasional	occasional	4
<i>Nymphoides peltata</i>	Fringed Water-lily	occasional introd.	occasional, also introd.	occasional, also introd.	occasional	6
<i>Persicaria amphibia</i>	Amphibious Bistort	frequent	frequent	frequent	frequent	6

PLANTS COMPOSED OF SIMPLE, UNDIFFERENTIATED, PAD-LIKE FLOATING FRONDS

<i>Lemna gibba</i>	Fat Duckweed	occasional	frequent	occasional	occasional	8
<i>Lemna minor</i>	Common Duckweed	frequent	frequent	frequent	frequent	6
<i>Lemna minuta</i>	Least Duckweed	frequent	frequent	occasional	occasional	7 +
<i>Lemna turionifera</i>	Red Duckweed	absent	rare	absent	absent	not given
<i>Spirodela polyrhiza</i> (<i>Lemna polyrhiza</i>)	Greater Duckweed	occasional	occasional	occasional	occasional	7
<i>Wolffia arrhiza</i>	Rootless Duckweed	absent	absent	absent	very rare or extinct	7

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PLANTS WITH COMPOUND OR LOBED LEAVES

Submerged leaves only; flowers if emergent on more or less leafless stems

<i>Ceratophyllum demersum</i>	Rigid Hornwort	frequent	frequent	occasional	frequent	7
<i>Ceratophyllum submersum</i>	Soft Hornwort	extinct	rare	rare	extinct	8
<i>Myriophyllum alterniflorum</i>	Alternate Water-milfoil	extinct	extinct	very rare	very rare or extinct	3
<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	frequent	frequent	frequent	frequent	7
<i>Myriophyllum verticillatum</i>	Whorled Water-milfoil	very rare	occasional	occasional	occasional	7
<i>Ranunculus circinatus</i>	Fan-leaved Water-crowfoot	occasional	frequent	occasional	occasional	7
<i>Ranunculus fluitans</i>	River Water-crowfoot	occasional	absent?	rare	occasional	6 +
<i>Ranunculus pencillatus</i> ssp. <i>pseudofluitans</i>	Stream Water-crowfoot	rare	occasional	absent?	rare	not given
<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	frequent	frequent	frequent	frequent	6 +
<i>Utricularia australis</i>	Bladderwort	very rare	extinct	absent	absent	3
<i>Utricularia intermedia</i>	Intermediate Bladderwort	absent	extinct	absent	absent	2
<i>Utricularia minor</i>	Lesser Bladderwort	extinct	extinct	extinct	very rare or extinct	2
<i>Utricularia vulgaris</i>	Greater Bladderwort	extinct	occasional	rare	very rare or extinct	4 +

Submerged and floating leaves may be present

<i>Ranunculus aquatilis</i>	Common Water-crowfoot	frequent (s.l.)	occasional (s.s.)	occasional	frequent	5
<i>Ranunculus baudotii</i>	Brackish Water-crowfoot	absent	very rare or extinct	absent	very rare	6
<i>Ranunculus peltatus</i>	Pond Water-crowfoot	rare	very rare	rare	occasional	6

Floating leaves or fronds only

<i>Azolla filiculoides</i>	<i>Water Fern</i>	<i>frequent</i>	<i>occasional</i>	<i>occasional</i>	<i>occasional</i>	8
<i>Ranunculus hederaceus</i>	Ivy-leaved Water-crowfoot	rare	extinct	very rare	rare	5
<i>Ranunculus omiophyllum</i>	Round-leaved Water-crowfoot	absent	absent	absent	extinct	4

Submerged leaves and emergent shoots may be present

<i>Apium inundatum</i>	Lesser Marshwort	very rare or extinct	very rare	absent	very rare	4 +
<i>Hottonia palustris</i>	Water-violet	extinct	occasional	occasional	rare	5 +
<i>Myriophyllum aquaticum</i>	<i>Parrot's-feather</i>	<i>rare</i>	<i>rare</i>	<i>very rare</i>	<i>rare</i>	7
<i>Oenanthe aquatica</i>	Fine-leaved Water-dropwort	very rare	occasional	occasional	rare	6
<i>Oenanthe fluviatilis</i>	River Water-dropwort	very rare	occasional	very rare	occasional	6 +

Emergent shoots only

<i>Menyanthes trifoliata</i>	Bogbean	very rare, also as rare introd.	very rare, also as rare introd.	extinct, also as rare introd.	rare, also as rare introd.	3
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Notes

- 1 The list omits subspecies, species absent from all four recording areas, and hybrids
- 2 Species in italics are not native to the country
- 3 Nomenclature follows *New Flora of the British Isles* 3rd ed. (C.Stace, 2010, CUP)
- 4 Where scientific names have changed considerably the old (CTW) name is included in brackets after the Stace name
- 5 Ellenberg Nitrogen indicator values (range 1-9; 9 being the most nitrophilous) are taken from *Ellenberg's indicator values for British plants* (Hill, Mountford, Roy & Bunce, 1999, CEH) A + symbol indicates that the value was determined on the basis of the subjective opinion of the report authors.
- 6 Many species listed here are under-recorded in our area and the abundances given are necessarily approximate
- 7 This list includes a few emergent plants that have submerged leaves that are distinctly different from their emergent leaves; it omits emergent plants whose submerged leaves are more or less the same as their emergent leaves

Approx. abundance categories

frequent	extinct - not recorded since 1950
occasional	absent - not recorded in the vice-county
rare - less than 7-8 sites/tetrads	
very rare - less than 3-4 sites/tetrads	

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Comments welcome, to nick.millar@wildlifebcn.org please

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**Bedfordshire
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