

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	very rare	very rare	very rare	2
<i>Lagarosiphon major</i>	<i>Curly Waterweed</i>	rare	occasional	very rare	very rare	6 +
<i>Potamogeton acutifolius</i>	Sharp-leaved Pondweed	absent	absent	absent	very rare or extinct	6
<i>Potamogeton berchtoldii</i>	Small Pondweed	occasional	occasional	rare	occasional	5
<i>Potamogeton compressus</i>	Grass-wrack Pondweed	absent	very rare	extinct	occasional	4 +
<i>Potamogeton friesii</i>	Flat-stalked Pondweed	very rare	occasional	very rare	very rare or extinct	5
<i>Potamogeton natans</i>	Broad-leaved Pondweed	occasional	frequent	frequent	frequent	4
<i>Potamogeton obtusifolius</i>	Blunt-leaved Pondweed	very rare	absent	absent	rare	5 +
<i>Potamogeton pectinatus</i>	Fennel Pondweed	occasional	frequent	frequent	frequent	7 +
<i>Potamogeton pusillus</i>	Lesser Pondweed	occasional	occasional	occasional	occasional	6
<i>Potamogeton trichoides</i>	Hairlike Pondweed	extinct	occasional	extinct	very rare or extinct	6
<i>Zannichellia palustris</i>	Horned Pondweed	occasional	frequent	occasional	frequent	7 +

Broad-leaved floating rosettes may be present

<i>Callitriche hamulata</i>	Intermediate Water-starwort	rare	absent	absent	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

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	occasional	frequent	frequent	frequent	6
<i>Schoenoplectus lacustris</i>	Bulrush	frequent	frequent	frequent	frequent	6
<i>Sparganium emersum</i>	Unbranched Bur-reed	occasional	occasional	occasional	occasional	6
<i>Sparganium natans</i> (S.minimum)	Least Bur-reed	absent	very rare	absent	extinct	3

PLANTS WITH THREAD-LIKE STEMS, NO OBVIOUS LEAVES

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

All leaves submerged

<i>Elodea canadensis</i>	Canadian Pondweed	occasional	frequent	frequent	frequent	6
<i>Elodea nuttallii</i>	Nuttall's Pondweed	occasional	frequent	occasional	occasional	7
<i>Groenlandia densa</i>	Opposite-leaved Pondweed	rare	occasional	rare	occasional	5 +
<i>Lemna trisulca</i>	Ivy-leaved Duckweed	occasional	frequent	frequent	frequent	5 +
<i>Potamogeton crispus</i>	Curled Pondweed	occasional	frequent	frequent	frequent	6
<i>Potamogeton lucens</i>	Shining Pondweed	very rare	frequent	occasional	frequent	6
<i>Potamogeton perfoliatus</i>	Perfoliate Pondweed	occasional	frequent	frequent	frequent	5
<i>Potamogeton praelongus</i>	Long-stalked Pondweed	very rare	very rare	very rare	very rare or extinct	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	very rare or extinct	very rare	absent	very rare	5
<i>Potamogeton coloratus</i>	Fen Pondweed	absent	occasional	occasional	very rare	5
<i>Potamogeton gramineus</i>	Various-leaved Pondweed	absent	rare	very rare	very rare or extinct	3
<i>Potamogeton polygonifolius</i>	Bog Pondweed	extinct	extinct	extinct	absent	2

All leaves floating

<i>Hydrocharis morsus-ranae</i>	Frogbit	?absent	occasional	rare	extinct or very rare introd.	7
<i>Nymphaea alba</i>	White Water-lily	occasional	occasional	occasional	occasional	4
<i>Nymphoides peltata</i>	Fringed Water-lily	very rare introd.	occasional	occasional	occasional	6
<i>Persicaria amphibia</i> (<i>Polygonum amphibium</i>)	Amphibious Bistort	frequent	frequent	frequent	frequent	6
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	absent	rare	absent	very rare	7

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	rare	occasional	rare	very rare	7 +
<i>Spirodela polyrhiza</i> (<i>Lemna polyrhiza</i>)	Greater Duckweed	very rare	occasional	rare	very rare	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	occasional	frequent	occasional	frequent	7
<i>Ceratophyllum submersum</i>	Soft Hornwort	extinct	very rare	very rare	extinct	8
<i>Myriophyllum alterniflorum</i>	Alternate Water-milfoil	extinct	extinct	extinct	very rare	3
<i>Myriophyllum spicatum</i>	Spiked Water-milfoil	occasional	frequent	frequent	frequent	7
<i>Myriophyllum verticillatum</i>	Whorled Water-milfoil	rare	occasional	rare	occasional	7
<i>Ranunculus circinatus</i>	Fan-leaved Water-crowfoot	rare	frequent	occasional	occasional	7
<i>Ranunculus fluitans</i>	River Water-crowfoot	occasional	occasional	occasional	occasional	6 +
<i>Ranunculus pencillatus</i> ssp. <i>pseudofluitans</i>	Stream Water-crowfoot	occasional	rare	absent	rare	not given
<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	occasional	frequent	occasional	occasional	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	4 +

Submerged and floating leaves may be present

<i>Ranunculus aquatilis</i>	Common Water-crowfoot	occasional	occasional	occasional	frequent	5
<i>Ranunculus baudotii</i>	Brackish Water-crowfoot	absent	extinct	absent	absent	6
<i>Ranunculus peltatus</i>	Pond Water-crowfoot	rare	absent	rare	rare	6

Floating leaves or fronds only

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

Submerged leaves and emergent shoots may be present

<i>Apium inundatum</i>	Lesser Marshwort	very rare	very rare	absent	very rare	4 +
<i>Hottonia palustris</i>	Water-violet	very rare or 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>very 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 introd.	very rare, also as rare introd.	rare introd.	rare	3
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Notes

- 1 The list omits obscure aliens, subspecies, species absent from all four recording areas, and hybrids.
- 2 Species in italics are not native to the country, according to *New Flora of the British Isles* 2nd ed. (C.Stace, 1997, CUP)
- 3 Nomenclature follows *New Flora of the British Isles* 2nd ed. (C.Stace, 1997, 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	



ver 3.2 Dec 2007

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

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Ecology Groups volunteer training and development has been supported by the Wildlife Travel Franklyn Perring Fund. Franklyn started Wildlife Travel in 1988 and since then the company has organised hundreds of holidays worldwide, with all profits being donated to The Wildlife Trusts. The aims of the company are to support conservation in both the UK and abroad, to provide conservation based wildlife holidays and to encourage good practice in ecotourism. The Fund was set up in Franklyn's memory and contributions have been received from many of his fellow travellers, who benefited from his enthusiasm and skills in sharing his extensive botanical and general natural history knowledge with others. For more information or to contribute to the Fund, please contact wildlifetravel@wildlifebcnp.org or 01954 713575.



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