

Chara contraria A. Braun ex Kütz.

(*Chara vulgaris* var. *contraria* (A. Braun ex Kütz.) J.A. Moore.)

Opposite Stonewort

3 1999 Native

Daw End Canal, SK0300, P.M. Wade, det. N.F. Stewart.

Stowe Pool, SK1109, NFS, 2002.

Eastern edge of Brittles Reservoir, N of Shatterford, J.J. Day & A.W. Reid, SO7982, 2004.

Chara curta Nolte ex Kütz.

(*Chara aspera* Dethard. ex Willd. var. *curta* (Nolte ex Kütz.) A. Braun ex Leonh.)

Lesser Bearded Stonewort

?1987-1999 Native

Stowe Pool, Lichfield, SK1110, records at Natural England.

Daw End Canal, SK0300, PMW, det. NFS, 1999.

Stowe Pool, SK1109, NFS, 2002.

Chara globularis Thuill.

(*Chara globularis* Thuill. var. *globularis*)

Fragile Stonewort

5 1835 Native

Needwood Forest, SK12, Babington, C.C., **BM**.

Rudyard Reservoir, SJ95, Searle, H., 1884. **BM**.

Bagnall (1901) gives records (as *Chara fragilis*) for Knypersley Pools, Miss Thompson; near Gnosall; near Oulton.

Penkhull, SJ8644, N. Bowles, 1984.

New pond to N of Broughton Pool, SJ7930, A. Leak, S.J. Whild, MFG & A.J. Lockton, det. NFS, 2002, **BIRM**.

Near Copmere, SJ7930, MFG, 2003, det. NFS.

Belvide Reservoir, SJ8510, B. Goldsmith & J. Salgado, 2011, det. NFS.

Belvide Reservoir, SJ8609, E. Shilland & J. Shilland, 2007 & 2014; also BG & JS, 2011.

All det. NFS.

Belvide Reservoir, SJ8610, NFS, 2007; also ES & JS, 2007 & 2014, det. NFS; also BG & JS, 2011 & 2014, det. NFS.

Chara hispida L.

(*Chara hispida* L. var. *hispida*)

Bristly Stonewort

1798 Native

Abundant, ditches in Forton Moor, near Aqualate Mere, SJ7720, S. Dickenson.

Garner (1844) has this species for "Betley and Aqualate. Plentiful".

Bagnall (1901) offers for the species: Betley, *Garner*; at the bottom of a spring in a meadow at Gayton, Stokes (in *Withering*); Forton Moss, *Dickenson* in *Shaw*.

Chara tomentosa L.

Coral Stonewort

1798 Error

Only known from lakes on the limestone of central Ireland: vice-counties H9, H15 & H23.

Listed by *Shaw* for the Needwood Forest. Edees disallowed the record in his "Additions to the Comital Flora".

Chara virgata Kütz.

(*Chara globularis* var. *virgata* (Kütz.) R.D. Wood)

Delicate Stonewort

1 1860-1929 Native

This species can withstand more acidic situations than most taxa of *Chara*.

Irish Pool, Needwood Forest, SK12, **BM**.

Field pool, Leafield Farm, S of Shutt Green, Brewood, SJ8709, B.R. Fowler, det. JAM, 1982. **BM**.

Chillington Pool, SJ8505, T. Holland, 2013.

***Chara vulgaris* L.**

Common Stonewort

7

1798

Native

Bagnall (1901) offers for this species: gravel-pit at Blymhill, *Dickenson* (in *Shaw*); and, under his own authority: near Mayfield; pool near Little Hay; Spittle Brook Mill, abundant.

H.P. Reader in the 1925-26 *Transactions* gives the species for "canal, Great Haywood".

Ridge in *The North Staffordshire Flora* just states "Fairly common in ponds".

Stanton, SK14, C.J. Haynes, det. JAM, 1983, **BM**.

Birley Spoil Mounds, Apedale Community Country Park, SJ8249, C.J. Hayes & R.N. Hill, 1983.

Recently made pool, Great Bridge, SO9791, BRF, det. JAM, 1987.

Cop Mere, SJ8029, L. Carvalho, S. McGowan, S. Kilinc & B. Moss, 1992.

Penn Common, SO89, J. Hooley, det. NFS, 2001.

Belvide Reservoir, SJ8610, ENSIS, 2007; also BG & JS, 2011: both det. NFS.

Pool Dole, E of Fenton, SJ9044, M. Woods, 2010.

Byrkley Park, SK1623, MW, 2010.

Sugnall Park, SJ7930, MFG, 2010.

Doxey Marshes Nature Reserve, SJ9024, MFG & RNH, 2010.

Belvide Reservoir, SJ8510, BG & JS, det. NFS, 2011.

Some other specimens were determined to varietal level:

Chara vulgaris* var. *vulgaris

1

1920

Native

Great Hayward, SJ92, **STO**.

Baswich, SE of Stafford, SJ9422, P.P. Thornton, 1923, **STO**.

Quarry seepage, Saltwells, Dudley, SO9387, JAM, 1981, **BM**.

Pool in ironworks spoil, Burley, Apedale, SJ8249, RNH, det. JAM, 1982, **BM**.

Stanton, SK1146, CJH, det. JAM, 1983, **BM**.

Six inch square clump, not fully submerged, on mud, streamside, Penn Common, SO8994, BRF, det. JAM, 1986, **BM**.

A few, newly made pool, waste land, Sheepwash Lane, Great Bridge, SO9791, BRF, det. JAM, 1987, **BM**.

A few, tiny pool above Fauld Crater, SK1827, BRF, det. JAM, 1987, **BM**.

SE of Deepmore Farm, SJ9208, A. Maxwell, V. Brooks & D. Cadman, conf. MFG, 2012.

***Chara vulgaris* var. *longibracteata* (Kütz.) J. Groves & Bull.-Webst.**

2

1982

Native

Pool on disused colliery site, Deepfields, Bilston, SO9495, BRF, det. JAM, **BM**.

Broughton Pool, SJ7930, AL, SJW, MFG & AJL, det. NFS, 2002, **BIRM**.

Pond S of Branston, SK2220, M.E. Smith, det. NFS, 2011.

***Chara vulgaris* var. *papillata* Wallr. ex A. Braun**

1891

Native

Sinai Park, Burton, SK22. Also Outwood Hills, Burton. Both J.E. Nowers, **BM**.

Frequent in a small pool, Fauld, SK1828, BRF, det. JAM, 1987, **BM**.

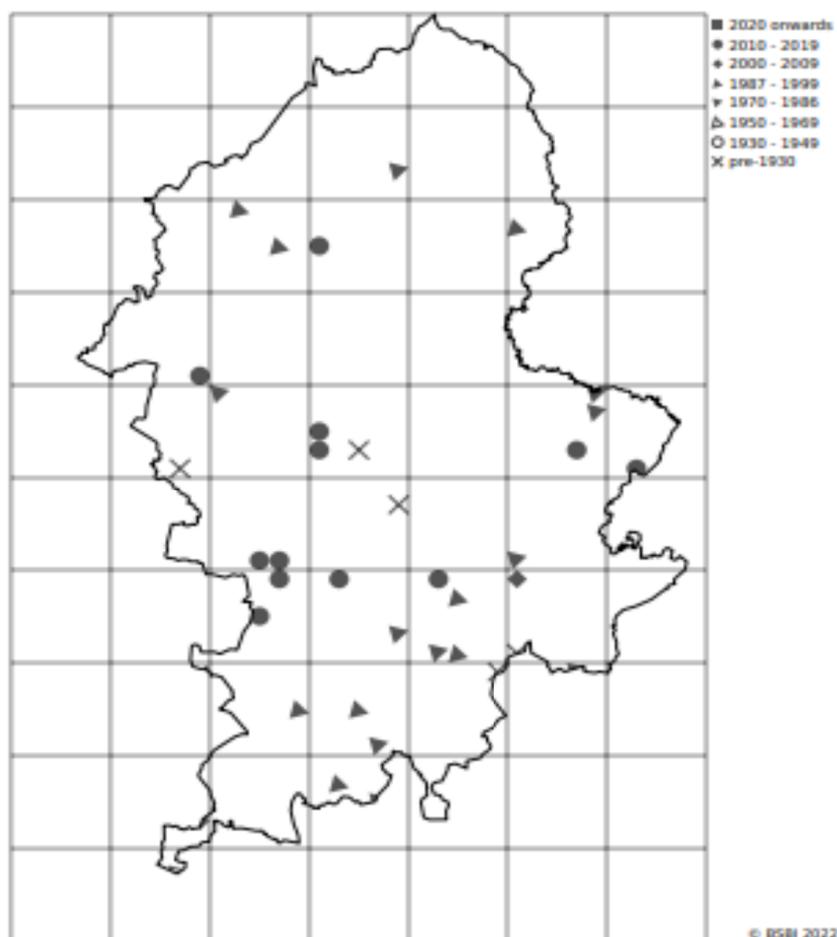
[The following records were only made at the genus level, *Chara* L.:

Cop Mere, SJ8029, A. Hillman & C. Walker, 1992.

Occasional, Wyrley & Essington Canal, SJ9803, E.F. McKay & T. Teearu, 1996.

River Churner, Cheddleton, SJ9852, N. Mott, 1997.]

All Chara Taxa



Tribe: NITELLEAE Leonh.

Nitella C. Ahgardh

Nitella flexilis (L.) C. Agardh

(*Nitella flexilis* (L.) C. Agardh var. *flexilis* sensu J.A. Moore)

Smooth Stonewort

3

1850

Native

Cotes Heath, SJ8335, CCB, **BM**.

Bagnall offers under this species heading: near Fradley Marl-pits, Power; near Milwich and Fradswell, abundant; Blymhill, *Shaw*.

Ridge in *The North Staffordshire Flora* gives “Ditches, Stoke-on-Trent *Garner*”; and “near Rushton”.

There is a record in the BSBI database for Cannock Chase, SJ91, 1926.

Locally abundant, No Man’s Bank, SK0209, M. July, 1986.

White Sitch, SJ7912. E. Cohn, E. Skinner, VB & I.C. Trueman, 2010.

Pond, Quee Lane Farm fields, SK0830, J. Flanders, AM & DC, det. MFG, 2011.

Wetley Rocks, SJ9549, D. Haslam, ES, VB & ICT, det. MFG, 2012.

Nitella opaca (C.Agardh ex Bruzelius) C.Agardh

Dark Stonewort

1884

Native

Rudyard Lake, SJ95, C.J. Wilson, **BM**.

Serpentine, Biddulph, SJ85, F.P. Thompson & R.F. Thompson, 1890, **BM**.

Under the heading of *N. opaca*, records of which may also belong under *N. flexilis*, Bagnall listed: Fradley, H. & J. Groves; pool in Sherbrook Valley, abundant.

Nitella translucens (Pers.) C. Agardh

Translucent Stonewort

1844

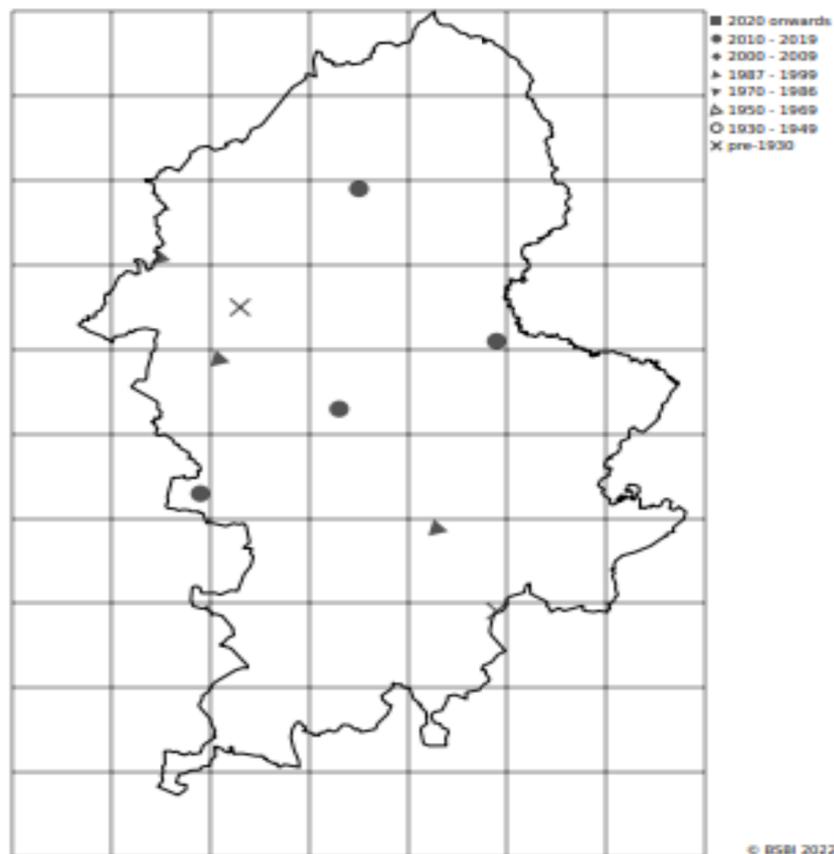
Native

Rudyard Lake, SJ95, HS, det. H. or J. Groves, **BM**.

Garner offers “Deep pools at Hatherton”.

Bagnall (1901) repeats the *Garner* claim, and also gives, on his own authority, “pit at Tipton”.

All *Nitella* Taxa



References

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- Moore, J. A., 1986.** *Charophytes of Great Britain and Ireland.* BSBI Handbook No 5.
- Ridge, W.T.B., 1922-29.** The Flora of North Staffordshire. *TNSFC*, 56-63, appendices 1-8.
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- Withering, W., 1787-92.** *A Botanical Arrangement of British Plants*, 2nd edition. (3 vols.). Birmingham.

Gazeteer

Aqualate Mere	SJ7720	Betley	SJ7447
Blymhill	SJ8012	Forton Moss	SJ7521
Fradley	SK1513	Fradswell	SJ9732
Gayton	SJ9828	Gnosall	SJ8220
Great Hayward	SJ9922	Hatherton	SJ9510
Knypersley Pools	SJ8955	Little Hay	SK1202
Mayfield	SK1545	Milwich	SJ9732
Needwood Forest	SK1623	Oulton	SJ7822
Rushton	SJ9362	Sherbrook Valley	SJ9818
Spittle Brook Mill	SO8487	Stoke-on-Trent	SJ8745
Tipton	SO9692		