

# Tubular Water-dropwort (*Oenanthe fistulosa*) RARE SPECIES RECORDING FORM (PAGE 1 of 4)

### **METHOD**

**Aims:** To find out if Tubular Water-dropwort is i) present in the focal pond, ii) get an approximate idea of its location and abundance in the focal pond, iii) collect physical data about the focal pond that can be used to assess the reasons for any change recorded on future visits, and iv) look in any adjacent ponds to see if Tubular Water-dropwort is present or absent.

- **Equipment:** It's helpful to take a camera (e.g. mobile phone camera) to take confirmatory photos of Tubular Water-dropwort, to take photos of your survey pond for the record, and to take a photograph of your sketch maps if you don't have access to a scanner alternatively you can give your survey forms to your regional officer.
- Survey timing: Tubular Water-dropwort is quite a late-growing plant and is best surveyed between July and September.
- Where to look: Tubular Water-dropwort typically grows in the pond's drawdown zone the area that is wet in winter, but progressively dries out in summer. Plants can be found growing amongst long or short grass and other wetland plants, or along muddy margins and in shallow water poached by animal's hooves. Search for it across all of the pond's dry marginal areas and in shallow water.
- Survey the pond: The Focal Pond will have a previous record for Tubular Water-dropwort, although the plant may not have been recorded since the 1980s. Search the pond margins and shallow edges for Tubular Water-dropwort plants, and if found, estimate the number of plants (see below). Draw a sketch map to show the location of Tubular Water-dropwort within the focal pond this may help you and others in the future to search the same area. Fill out the pond habitat survey form for the focal pond.
- How to estimate abundance: If Tubular Water-dropwort plants are found in the focal pond, make an estimate of the number of plants present, and record the results as an abundance category (over page). It can be hard to count the number of plants, especially if they are small, closely inter-growing or very numerous. The best approach is to count the plants in a small area (e.g. 10 cm² or 1 m²), and multiply this by the area in which Tubular Water-dropwort plants are found. If Tubular Water-dropwort occurs in different areas or habitats in the pond, make separate calculations for each area, and sum them to give a total (see table over page). **Note, we only need the overall total for the pond.** 
  - If Tubular Water-dropwort is **not found** at the pond, please record this, and continue to fill out the environmental sheet and search other ponds in the surrounds. The findings will help identify reasons for the plant's absence from the pond.
- Check other ponds and pools in the surrounds: Finding out if Tubular Water-dropwort occurs in other nearby ponds
  helps us to understand if the species is part of a larger population, which may be important for its survival. Visit as many
  nearby ponds or pools to see if Tubular Water-dropwort is present. You don't need to record numbers, or environmental
  data at these other ponds.

It will be helpful to revisit these other ponds in future years. So, to ensure they can be found again by youself or others please (a) provide an accurate grid reference and/or mark the locations on your PondNet base map, or (b) make a sketch of the location of ponds around the focal pond and (c) take photos. Then, upload the maps and photos to the website.

What it looks like: Tubular Water-dropwort is a very variable species: it often occurs as small low-growing plants only a few cm high, with a rather cow-parsley-like basal leaf (basal leaves grow at the bottom of the stem) and may also have finely divided submerged leaves (see photo). It is easier to identify and record abundance once the plants reach maturity.

The characteristic stem and stem leaves of Tubular Water-dropwort (see photo), typically develop when the plants are older. Mature, flowering, plants can be surprisingly tall: over 1m in height. Where they grow in amongst other tall wetland species, their stems are sometimes lax and scrambling, and they often fall over as the stems are quite weak. Later in the season, the flowers develop distinctive rounded fruiting heads.

We have produced a "Species Information Sheet" and "How to . . ." identification guide if you need some more hints and tips to recognise Tubular Water-dropwort from the other water-dropworts <a href="www.freshwaterhabitats.org.uk/projects/pondnet.">www.freshwaterhabitats.org.uk/projects/pondnet.</a>

Once completed, enter your results online: <a href="www.freshwaterhabitats.org.uk/projects/waternet">www.freshwaterhabitats.org.uk/projects/waternet</a>, or give your recording forms and maps to your regional project officer and we can enter data for you.











Tubular Water-dropwort: (a) submerged leaves, (b) basal leaves and (c) flowering stem - the easiest stage to identify, with characteristic stem leaf (ci) and globular fruiting heads (cii).



# Tubular Water-dropwort (*Oenanthe fistulosa*)

## RARE SPECIES RECORDING FORM (PAGE 2 of 4)

Surveyor Name(s) e.g. John Smith				Date		
Square: 4 figure grid e.g. SP1243 (see yo				ond: 8 figure grid ref 5 4325 (see your map)		
Focal Pond name (if known)	ui map)		e.g. 01 1230	14323 (See your map)		
Determiner name (o	<i>ptional</i> - if		Vouche	er material ( <u>optional</u> -		
			comment if yo	ou've taken a photo to confirm identification)		
Number of Tubul	ar Water-	dropwort in your Fo	ocal Pond			
1, 2-5, 6-10, 11-20, 21-	-50, 51-100, <sup>1</sup>	dropwort plants found in the 101-200, 201-500, 501-100 ow to help you keep track a	0, 1000+. If the	re are many plants, count	the number in a s	mall area
		ease take a confirmatory phof your pond or your maps (				
Pond habitat type or	areas whe	re the plant is found (lis	st): use this ta	·	Number o	
1.	and so you /	others can re-find plants	<u> </u>			
2.						
3.						
4.						
	<u>Tc</u>	otal number of Tubular	Water-dropw	ort plants (category)		
· —	evidence of	for, but not found: Tubular Water-dropwort se still enter these finding	at the pond, `	ck box if none found)		
Species notes: Please Tubular Water-dropwork abundant / declining / a	t, and though	ews on pond condition for ts on why it may be	Water- covere few pla spikes	ch map: Use this box to dropwort plants in your for dropwort plants in your for dropword area, or x mark ants. We are asking you to but you can also indicate ng plants, if they are pres	cal pond. Use shats the spot if there count the number on the bap the expense.	ding if they were just a or of flower
Search other pon	ds and po	ools in the surround	<u>ls</u>			
Please search other ponds or pools in the area to see if Tubular Water-dropwort is present or absent. Then complete the following summary questions about the additional pond search.  To help re-find these other pools: (a) mark their locations on your PondNet base map (in your site information pack) and indicate whether Tubular Water-dropwort was present or absent.						
Was Tubular Water-dropwort found in any additional ponds?			?			
Yes No (tick)						
2. How many additiona were searched put a z		you search (if no other p	onds			
record for Excluding	or Tubular V	al ponds with a <u>positive</u> Vater-dropwort. and, how many other por opwort?				
Number of additional ponds with a <u>negative</u> record for Tubular Water-dropwort.  Excluding the focal pond, how many additional ponds <i>did not have</i> Tubular Water-dropwort?			-		LOTT	heritage lottery fund



## **Tubular Water-dropwort (Oenanthe fistulosa)**

### RARE SPECIES RECORDING FORM (PAGE 3 of 4)

### **FOCAL POND HABITAT SURVEY:**

This is a really important part of the survey at your focal pond. Please complete this Pond Habitat Survey for <u>your focal pond</u>, <u>whether or not you find Tubular Water-dropwort at the site</u>.

Each variable provides information known to be linked to pond quality and community type, and can be used to investigate the reason for change in Tubular Water-dropwort occurrence.

- the reason for enang				
Is the pond new? ( yes, no, unknown	less than 10 yrs old)	Year of creation date, decade, unknow		Pond Altitude (m)
Pond area				
Note prob	e: This is the surface area of the ably not be the current water lever tation like rushes at the pond's contact the pond's cont	el of the pond. The high wa	ater level line shou	uld be evident from wetland
1 = neve 2 = rare 3 = som 4 = anno	y dries 3 = Sometimes dries: etimes 4 = Dries annually. De	nore than 2 years in any 10 dries between three years educe pond permanence fr g. water level at the time of se.	in ten to most year om local knowled	ars, ge (e.g. landowner) and
	nd overhung by trees and shrubs margin overhung to at least 1m	overhung if the sur	g by trees and shru	much of the pond is <i>directly</i> ubs, i.e. that would be shaded se the diagram (below) as a
Waterfowl impact 1 = majo 2 = mino 3 = none	have patches where veg impact on pond vegetati	of waterfowl e.g. few or no spetation removed, feed put on, pond still supports subjections of waterfowl impa	down; <b>Minor</b> = w merged plants and	raterfowl present, but little d banks are not denuded of
1 = major 2 = minor 3 = poss 4 = abse	or goldfish or stickleback k suggest that they may b during survey.		<b>ible</b> = no evidence	all numbers of Crucian Carp e of fish, but local conditions king and no fish revealed
% of the vegetation not float species www.fre options/	a: includes emergent, floating an whole pond (wet and dry) occup on – incl. plants like grasses, waing (e.g. duckweeds) or submerget to see a list of emergent species hwaterhabitats.org.uk/projects/habitats  and water surface area covered beat, floating (excl. duckweed) and	pied by emergent ter mint and rushes, but ged (e.g. water-crowfoot) es look at the survey guide s/pondnet/survey-	10% • C	
% level – T	ter area in pond relative to maxing the can be 0% if the pond has down (height drop from maximum vocurrent level).	ried out. Maximum w winter water water level	inter	Drawdown height (height difference between maximum & current water level)
If yes co	ere is evidence the pond is graze mplete the following boxes: ole pond grazed (note: stock can	•	o graze).	
% of por	nd perimeter grazed (note: stock	can wade into shallow pon	ds to graze other	wise inaccessible edges).

Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).



# Tubular Water-dropwort (*Oenanthe fistulosa*)

## RARE SPECIES RECORDING FORM (PAGE 4 of 4)

Pond management (tick) Use the tick boxes to list ma		nent withi	n the last	12 months	Use 'othe	r' box for a	anv extra	info				
Fully dredged		Partly dre			5% vegetation removed			<5% vegetation removed				
Trees planted		-				rees cut back / coppiced			Pond changed shape / size			
Plants introduced		Bank plan			ructural wo			Straw added				
<u></u>		Darik piai	IIS IIIOWII		ucturar wo	ik e.g. to u	aiii	Straw	auueu			
Add other or more detail												
Add other or more detail  Turbidity / water clarity: Estimate turbidity looking of the class of the pond choose one of the following state.  Turbidity / water clarity:  It suitable with and meters pH  Nitrate (NO³N ppm): PPN (tick one from the following <0.2 0.2-0.5 0.5-1  Pond base: This refers to the geology (i.e. the base or banks of the pond Choose one of the following Silt/ clay	whits process and the control of the	ailable (corovided e categor 2-5  ate (other unit of many pe) that categorise	by FHT ies) 5-10  er kit - give easurem  immediate ew ponds.	oderately to esent or lead oresent or lead oresent olank):  10 +  re kit name ent)  ely underlies omposition	Phospha (tick one <0.02 the pond. k a geology	Conduste (PO <sub>4</sub> 3-from the footbase of the condustriant of the footbase of the condustriant of the condustr	now, or be	PPW kits range cat 0.1-0.2  Phosph name a eable to section bland 32%, 2= 3	0.2-0.5  nate (other and unit of the und k.	0.5-1  r kit - give measure erlying geo 3= 67-100	ement) blogy in 0%	
<b>Surrounding land use:</b> Estimate the <i>percentage</i> of s assess pond area. In many p							ter (i.e. the	e maximur	n winter w	ater level)	used to	
Habitat												
Trees, woodland & scrub	%	%	Deciduo	us and conif	erous wood			s, scrub an	d hedgero	WS.		
Heath & moorland				Deciduous and coniferous woodland, individual trees, scrub and hedgerows.  Lowland and upland heathland, moorland and mountain; includes bracken.								
Rank vegetation			Unmana	ged grass, n	eglected a	nd abando	ned land,	set-aside,	verges an	d buffer sti	ips.	
Unimproved grassland				n, calcareous							ent).	
Semi-improved grassland			Low percentage of agricultural grasses. Not fertilised, little or no drainage.  A transition category. Grasslands modified by fertilisers, drainage, herbicides or intensive						ensive			
grazing, but retaining elements of natural grassland types in the area.  Improved grassland  Fertile agricultural grass, often bright green and lush; including parks and golf greens.							าร.					
Arable			All crops. Includes flower and fruit crops (e.g. strawberries) and ploughed land.									
Urban buildings & gardens			Areas in curtilage (associated with buildings); including glass-houses and farm yards.							ls.		
Roads, tracks & paths			Including car-parks and footpaths.									
Rock, stone & gravel			Cliffs, rock-outcrops, gravel-pits, quarries, areas of sand and gravel or stone.									
Bog, fen, marsh & flush			Wetland vegetation and blanket bog.									
Ponds & lakes			Permanent and seasonal waterbodies; including trackway pools.									
Streams & ditches			Rivers, streams, ditches, springs and canals  E.g. maritime vegetation, saltmarsh, sand-dune, orchards and railways.									
Other (state)		-	in a prot	ected area es, no, unkn	ı <b>?</b> (e.g. na				railways.			
How much of pond pering surveyed? Note areas of	pond n	ot acces	sible.									
<b>Comments box:</b> e.g. new since previous visit, any of												