

### Tadpole Shrimp (*Triops cancriformis*) RARE SPECIES RECORDING FORM (PAGE 1 of 4)

#### **METHOD** (complete one survey form per pond)

**Aims:** To find out whether Tadpole Shrimp are i) present in the pond, ii) get an approximate idea of their abundance, iii) collect physical data about the pond that can be used to better understand the ecology of this species and to assess the reasons for any change recorded on future visits, and iv) look in any adjacent ponds to see if Tadpole Shrimp are present or absent.

A protected species licence from Natural England is required to survey Tadpole Shrimp - *our method is based on observation only* - you do not need to net them or enter the water to take part, but you will still need training and a licence to undertake the survey.

There are currently only a handful of ponds known to support Tadpole Shrimp in England. We will survey these ponds as part of the PondNet project, but we are keen to raise awareness of the survey in general in the hope that new sites may be discovered.

- **Equipment:** It's helpful to take a camera to take confirmatory photos of Tadpole Shrimp, 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 post your survey forms to Freshwater Habitats Trust.
- Survey timing: Tadpole Shrimps have a very unusual life cycle. They are restricted to temporary ponds which dry down once or several times a year, where they hatch from drought resistant cysts after ponds have dried out and then refilled with water. Late summer/early autumn can be a good time to visit, but any period of dry weather which results in the pond drying out, followed by rain and subsequent refilling, can cause them to hatch.

The best time to search is when the Tadpole Shrimp are adults: about 2 weeks after the pond has refilled and before predation has a significant effect on the population. *The survey window for Tadpole Shrimp is therefore between 2 and 4 weeks after the pond has filled with water.* This is an approximate survey window to help standardise the survey between sites, but there is flexibility as you may not know exactly when the pond filled.

You can also complete more than one survey each year, if the pond fills on multiple occasions. If the pond dries out before the survey window begins, you can submit the records but make a note of this in the species notes box overleaf.

- Where to look: Tadpole Shrimps are restricted to shallow temporary ponds. They grub around on the bottom of the pond and often give their presence away from the disturbance their activity causes to any vegetation emerging on the pond surface. Tadpole Shrimps distinctive form and size mean that they can often be seen by standing on the pond margin and looking down through the water, although it can require patience and practice to get your eye in.
- Survey the pond: Search in all areas of the pond you can easily see from the pond margin and if Tadpole Shrimp are found; estimate the number of individuals (see below) and fill out the pond habitat survey form for the pond.
- How to estimate abundance: If Tadpole Shrimp are found in the pond, make an estimate of the number of individuals
  present, and then record the results as an abundance category (over page).

It can be hard to count the number of individuals, especially if they are very numerous, or at different densities in different areas of the pond. The best approach is to <u>count the individuals in a small area (e.g. 1 m²)</u>, and multiply this by the area of the pond. If Tadpole Shrimp occur 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).

If Tadpole Shrimp are <u>not found</u> at the pond, please record this, and continue to fill out the pond habitat survey. The findings will help identify reasons for their absence from the pond. **Tadpole shrimp periodically shed their hard** exoskeleton as they grow. You may find shed skins on the surface or edge of the pond. These can be noted in the comments section but should not count towards the total abundance.

Check other ponds and pools in the surrounds: We are keen to find new ponds for Tadpole Shrimp and would like
you to look in other ponds to see if they can be discovered. Visit as many nearby ponds or pools as possible (depending
on how much time you have available) to see whether Tadpole Shrimp are present. Complete a new PondNet survey
form for each pond you visit.

Once your survey is completed, enter your results online: <a href="www.freshwaterhabitats.org.uk/projects/waternet">www.freshwaterhabitats.org.uk/projects/waternet</a>, or email your recording forms and maps to Freshwater Habitats Trust and we can enter the data for you: <a href="mailto:info@freshwaterhabitats.org.uk">info@freshwaterhabitats.org.uk</a>.





Tadpole Shrimp ID tips: (a) Tadpole Shrimps look like miniature horseshoe crabs. It's hard to mistake them for anything else! The hard carapace protects them from predators in their temporary pond habitats. They can grow up to about 10cm in length, have a red brown colour, two long 'tails', and many legs and long feelers to help them find food in their muddy homes. (b) Close up you can see where they get their name. Triops can be translated as 3-eyed, two compound eyes and a central primitive light sensing organ (their third eye).



# Tadpole Shrimp (*Triops cancriformis*) RARE SPECIES RECORDING FORM (PAGE 2 of 4)

**LOTTERY FUNDED** 

<u>'</u>					
Your name				Date	
Square: 4 figure grid ref e.g. SP1243 (see your map)				ond: 8 figure grid ref 4325 (see your map)	
Pond name (if known)				<u> </u>	
Determiner name ( <u>optional</u> - if someone confirms the identity of the species you've recorded)		(	comment if yo	er material ( <u>optional</u> - ou've taken a photo to confirm identification)	
		ke a confirmatory photo. Need them with the record <u>vertices. Ye</u>			ond or your maps (or scan projects/waternet.
Number of Ta	dpole Shrimp	in your pond			
		number in a small area (i.e. sis <b>we only need a total</b> .	1m <sup>2</sup> ) and mult	iply up. We've put a tab	e below to help you keep
calculations, and		e found (list): use this to re-find them on future vis		ith your number	Number of individuals
1. 2.					
3.					
4.					
5.					
	Then record the num	for the whole pond based of Total number of Tadpole Shrimp four 1, 101-200, 201-500, 501-	umber of Tac and in the pond 1000, 1001-50	dpole Shrimp (abund using the following abur 000, 5001-10000, 1000	dividuals recorded  lance category) dance categories: 11-20000, 20001+
	Note: if	you <u>don't</u> find evidence of ī plea	Tadpole Shrimp	le Shrimp looked for the pond, this is an ese findings online (tick	mportant result so
	ip: Make a sketch m Tadpole Shrimp were	ap of your ponds and draw	and surro		show the location of the pond ched (or mark the information r site information pack).
					heritage lottery fund



Add other or more detail

## Tadpole Shrimp (*Triops cancriformis*) RARE SPECIES RECORDING FORM (PAGE 3 of 4)

#### Please complete a POND HABITAT SURVEY sheet at each pond surveyed.

This is a really important part of the survey at your pond. Please complete this form whether Tadpole Shrimp were present or absent. Each variable provides information known to be linked to pond quality and community type, and can be used to investigate reasons for change in Tadpole Shrimp occurrence.

Go to: <a href="https://www.freshwaterhabitats.org.uk/projects/pondnet/survey-options/habitats">www.freshwaterhabitats.org.uk/projects/pondnet/survey-options/habitats</a> for survey guides and more information.

See the pond new? (less than 10 yrs old)   Year of creation?   date, decade, unknown   Pond Altitude   Area   Area												
Note: In is the surreact area of the pond. The high water level (itse pond.) It will probably not be the current water level of the pond. The high water level line should be evident from wetland vegetation like rushes at the ponds outer edge. Measure by pacing (single pace = 0.8-1m) or use online maps.  Pond dries?  1 = never dries			han 10 yrs old)		dá							
1 = never dries   2 = rarely dries   4 = Dries annually, Deduce pond permanence from local knowledge (e.g. landowner) and personal judgement e.g. water level at the time of the survey. Ponds that dry out annually usually have a hard base.    New fool pond overhung by trees and shrubs   This is an estimate of how much of the pond is directly overhung by trees and shrubs   Waterfowl impact   Major = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks have patches where vegetation removed, feed put down; Minor = waterfowl present; but little impact on pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation; None = no evidence of waterfowl impact (mochens may be present).    Major = dense populations of fish known to be present; Minor = small numbers of Crucian Carp, goldfish or stickleback known to be present; Possible = no evidence of fish, but local conditions suggest that they may be present; Absent = no records of fish stocking and no fish revealed during survey.    Major = dogs repeatedly use the pond, compacted edges with little vegetation, water very turbid, Minor = dogs use the pond, but little impact on pond vegetation; None = no evidence of fish, but local conditions suggest that they may be present; Absent = no records of fish stocking and no fish revealed turbid, Minor = dogs use the pond, but little impact on pond vegetation, water very turbid, Minor = dogs use the pond, but little impact on pond vegetation, water very turbid, Minor = dogs use the pond, but little impact on pond vegetation, water very turbid, Minor = dogs use the pond, but little impact on pond vegetation, water very turbid, Minor = dogs use the pond, but little impact on pond vegetation, water very submerged plants and banks are not denuded of vegetation; None = no evidence that dogs are using the pond.    Aquatic vegetation: includes emergent, floating and submerged plants and bank are not denuded of vegetation; None = no evidence that dogs are using the pond.		probably not	be the current wa	ater level o	f the p	ond. The h	nigh wate	r level l	ine shou	ld be evident fro	om w	etland
Waterfowl impact   1 = major   2 = minor   3 = none   3 = possible   4 = absent   2 = minor   3 = none   4 = absent   5 = major   2 = minor   3 = none   4 = absent   5 = minor   3 = none   5 = minor   5 = minor   5 = minor   5 = none   5 = minor   5 = minor   5 = minor   5 = none	Pond drie	1 = never drie 2 = rarely drie 3 = sometimes	drought, 3 = s 4 = Dries ar personal jud	Sometime nnually. De gement e.g	es drie educe g. wate	es: dries be pond perm	etween th anence f	ree yearon loc	ars in ten al knowl	to most years, edge (e.g. land	owne	r) and
would be shaded if the sun was overhead (use the diagram (below) as a guide).  Waterfowl impact  1 = major 2 = minor 3 = none  Najor = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks have patches where vegetation removed, feed put down; Minor = waterfowl present, but little impact on pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation; None = no evidence of waterfowl impact (moorhens may be present).  Major = dense populations of fish known to be present; Minor = small numbers of Crucian Carp, goldfish or stickleback known to be present; Possible = no evidence of fish, but local conditions suggest that they may be present; Absent = no records of fish stocking and no fish revealed during survey.  Major = dogs repeatedly use the pond, compacted edges with little vegetation, water very turbid; Minor = dogs use the pond, but little impact on pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation; None = no evidence that dogs are using the pond.  Aquatic vegetation: includes emergent, floating and submerged plants  % of the whole pond (wet and dry) occupied by emergent vegetation – incl.  plants like grasses, water mint and rushes, but not floating (e.g. pondweed)  % of pond water surface area covered by all vegetation (emergent, floating)  % of open water reversions of the pond has dried out.  Drawdown. The height drop from the maximum water level. This can be 0% if the pond has dried out.  Drawdown. The height drop from the maximum water level. This can be 0% if the pond has dried out.  The provided interest of the pond is grazed by livestock. If yes, complete the following boxes:  % of whole pond grazed (note: stock can wade into shallow ponds to graze otherwise inaccessible edges).  Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).  Pond management (tick): use tick boxes to list management within the last 12 months. Use 'other' box for any	Overhang	ing trees & sh	rubs				-	This is a	an estima	te of how much	of the	pond is
Waterfowl impact		% of pond ov	erhung by trees	and shrubs	3							
Major = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks have patches where vegetation removed, feed put down; Minor = waterfowl present, but little impact on pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation; None = no evidence of waterfowl impact (moorhens may be present).    Fish presence		% pond marg	jin overhung to a	t least 1m f	from th	he pond ma						
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Solution	Water left	•								-	المدددها	برامانه با مرب
Drawdown. The height drop from the maximum winter water level to current level (see diagram).  Grazing  Tick if there is evidence the pond is grazed by livestock. If yes, complete the following boxes:  % of whole pond grazed (note: stock can wade into shallow ponds to graze).  % of pond perimeter grazed (note: stock can wade into shallow ponds to graze otherwise inaccessible edges).  Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).  Pond management (tick): use tick boxes to list management within the last 12 months. Use 'other' box for any extra info.  Fully dredged  Partly dredged  Partly dredged  Trees clear-felled  Trees cut back / coppiced  Pond changed shape / size	%							/	· · · · ·	-		(T)
Tick if there is evidence the pond is grazed by livestock. If <b>yes</b> , complete the following boxes:  % of whole pond grazed (note: stock can wade into shallow ponds to graze).  % of pond perimeter grazed (note: stock can wade into shallow ponds to graze otherwise inaccessible edges).  Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).  Pond management (tick): use tick boxes to list management within the last 12 months. Use 'other' box for any extra info.  Fully dredged  Partly dredged  Trees clear-felled  Trees cut back / coppiced  Pond changed shape / size	cm								rater level	<u> </u>	etweer	n maximum
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Pond management (tick): use tick boxes to list management within the last 12 months. Use 'other' box for any extra info.         Fully dredged       Partly dredged       >5% vegetation removed       <5% vegetation removed	%	% of pond pe	rimeter grazed (ı	note: stock	can w	ade into sl	hallow po	nds to	graze oth	nerwise inacces	ssible	edges).
Fully dredged Partly dredged >5% vegetation removed <5% vegetation removed  Trees planted Trees clear-felled Trees cut back / coppiced Pond changed shape / size		Grazing inten	sity: rank 1-5 (1=	infrequent=	or lov	v intensity t	to 5 = ma	rgins h	eavily po	ached and alm	ost ba	are).
Trees planted Trees clear-felled Trees cut back / coppiced Pond changed shape / size		• •								•		
						_				_		
Plants introduced Bank plants mown Structural work e.g. to dam Straw added				_						_	ape / s	size
	Plar	ts introduced [	Bank plant	ts mown		Structural w	ork e.g. to	dam	S	Straw added		





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

Water quality:								
Turbidity / water clarity: Estimate turbidity looking down into c.20cm depth of water in the pond.								
1 = clear; 2 = moderately clear; 3 = moderately turbid; 4 = turbid								
Inflows and outflows: (tic	k if infl	ow or ou	tflow prese	nt or leav	/e blank)			
Inflow present		(	outflow pre	esent				
Water chemistry: If suitab	le kits	and met	ers are avai	ilable (or	leave bla	ınk)		
pН						Condu	ictivity (µS cm-1)	
Nitrate (NO <sup>3</sup> -N ppm): PPW	√ kits n	rovided	ov FHT		Phospha	」 te (PO₄³	-P ppm): PPW kits provided by FHT	
(tick one from the following	•		•		•	•	following range categories)	
<0.2 0.2-0.5 0.5-1	1-2	2-5	•	10 +	•		95 0.05-0.1 0.1-0.2 0.2-0.5 0.5-1 1 +	
Pond base: This refers to the <i>geology</i> (i.e. rock-type) that immediately underlies the pond. You may know, or be able to see the underlying geology in the base or banks of the pond, especially in new ponds. If not, check a geology map or leave this section blank. Choose one of the following to categorise the % composition of <u>each</u> of pond base: 1 = 0-32%, 2 = 33-66%, 3 = 67-100%  Silt/ clay  Sand, gravel, cobbles  Hard rock  Peat  Other (please specify)  Surrounding land use: Estimate the <u>percentage</u> of surrounding land-use in distance zones from the pond perimeter (i.e. the								
Habitat		<b>0-100m</b>	ond area. In	many por	nds the 0-5		will include surrounding trees/scrub.	
Trees, woodland & scrub	%	%	Dociduous	and conife	roue wood		lividual trees, scrub and hedgerows.	
Heath & moorland	70	70					d and mountain; includes bracken.	
Rank vegetation							doned land, set-aside, verges and buffer strips.	
Unimproved grassland			Herb-rich, c	calcareous	and acid	grassland	d (good quality plant indicators usually present).	
Semi-improved grassland			A transition	category.	Grassland	ds modifie	Not fertilised, little or no drainage. ed by fertilisers, drainage, herbicides or	
							of natural grassland types in the area. een and lush; including parks and golf greens.	
Improved grassland Arable							(e.g. strawberries) and ploughed land.	
Urban buildings & gardens			•				ngs); including glass-houses and farm yards.	
Roads, tracks & paths			Including ca				rigs), including glass-nouses and farm yards.	
Rock, stone & gravel				-			s, areas of sand and gravel or stone.	
Bog, fen, marsh & flush			Wetland ve				s, areas or saina and graver or storie.	
Ponds & lakes				•			ncluding trackway pools.	
Streams & ditches								
Other (state)								
,	a nrot	ected ar		-			(choose one option - yes, no, unknown)	
New Zealand Pigmyweed	-		. •			•		
% of drawdown						•	an impact on this species.	
		·	•	zaiaiiu Fi	giliyweec			
Identification of New Zealand Pigmyweed:								
Can be submerged, emergent and terrestrial.								
Forms dense mats below and above the water surface.								
<ul> <li>The flowers it has, if any at all, are very small (less than 1cm) whitish- green to slightly pink with 4 petals.</li> </ul>								
<ul> <li>Leaves are up to 2cm long in opposite pairs - fleshy for emergent plants, but flatter for submerged parts of the plant.</li> </ul>								
<ul> <li>Similar species (such as the Water-starworts) do not have fleshy leaves. Water-starworts also have a notch at the leaf tip which is absent in New Zealand Pigmyweed.</li> </ul>								
Other invasive non-native (tick all that apply)	Other invasive non-native species: Floating Pennywort Non-native Pondweed, e.g.:							
Parrot's Feather Myriophyllum aquatic	Parrot's Feather Water Fern Nuttall's Pondweed <i>Elodea nutallii</i> ,							
How much of pond perim	neter c							
surveyed? Note areas of p	ond no	ot acces	SIDIE.					
<b>Comments box:</b> e.g. new since previous visit, any other the pond or survey species	her info							