Spotted Turtle Project LT/TRA Trap Placement Form Instructions

Reference Plot Number within the site: each reference plot should have 5 traps set within it. This form should be completed whenever traps are set for a TRA or DA trap event. 1 form should be completed / reference plot, for a total of 4 forms for a site.

DA sites will be trapped during 3, 4 night trap events (for a total of 12 nights). TRA sites will be trapped for 1 4 night trap event.

Site: use 6 letter site code: "State – County – 2 letter SiteID". For example: "MA-HA-BB (=Mass, Hampshire, Broad Brook)

What date did you first set this trap for this trap event?

What date did you pull this trap for this trap event?

What time did you set this trap for this trap event?

Note trap type used, if other specify which type.

Water depth (m) at trap

Dominant species in the 5m circle surrounding the trap (of any layer)

Latitude / Longitude of the trap in decimal degrees. Use NAD83, or report other datum.

Wetland type in the immediate vicinity (5m) of the trap:
vp: vernal pool (seasonal pool)
em: emergent marsh (herbaceous perennials are dominant)
ss: scrub shrub (dominated by shrubs < 3m high)
dfo wet: deciduous forested wetland (e.g., red maple swamp)
pond: open water with unconsolidated organic bottom
riv: river or stream with a clear channel and discernible flow.
wetland ecotone: border between two cover types
ditch: linear wetland feature
Other: please describe if different from above

Describe % cover within a 5m radius circle surrounding the trap.
em. herb. cov: emergent/floating herbaceous vegetation.
sub. herb. cov.: submergent herbaceous vegetation.
canopy cov.: canopy (>3m high) cover.
shrub cov.: shrub cover.

Spotted Turtle Trap Assessment
2018 TRAP SET FIELD FORM (3/6/2018) ☐ TRA Observer(s): ☐ DA Site Code:

Site Name:	Date set:	Date pulled:

Ref Pt # (circle): 1 2 3 4   Trap event: ☐1st ☐2nd ☐3rd ☐TRA

Trap #1 Coord. (dd.dddd, -dd.dddd):

Time set:	H20 depth (m):	**Habitat (within 5m)**	% canopy cov.:
Trap type:☐Promar ☐Crab ☐D ☐Other		% em. herb. cov:	% sub. herb. cov.:
Dominant Sp (5m):	Dist. Upland(m):	Wetland type: ↓	% shrub cov.:

☐ VP ☐ em ☐ ss ☐ d fo wet ☐ pond ☐ riv ☐ ditch
☐ wetland ecotone ☐ other :

Trap #2 Coord. (dd.dddd, -dd.dddd):

Time set:	H20 depth (m):	**Habitat (within 5m)**	% canopy cov.:
Trap type:☐ Promar ☐Crab ☐D ☐Other		% em. herb. cov:	% sub. herb. cov.:
Dominant Sp (5m):	Dist. Upland(m):	Wetland type: ↓	% shrub cov.:

☐ VP ☐ em ☐ ss ☐ d fo wet ☐ pond ☐ riv ☐ ditch
☐ wetland ecotone ☐ other :

Trap #3 Coord. (dd.dddd, -dd.dddd):

Time set:	H20 depth (m):	**Habitat (within 5m)**	% canopy cov.:
Trap type:☐ Promar ☐Crab ☐D ☐Other		% em. herb. cov:	% sub. herb. cov.:
Dominant Sp (5m):	Dist. Upland(m):	Wetland type: ↓	% shrub cov.:

☐ VP ☐ em ☐ ss ☐ d fo wet ☐ pond ☐ riv ☐ ditch
☐ wetland ecotone ☐ other :

Trap #4 Coord. (dd.dddd, -dd.dddd):

Time set:	H20 depth (m):	**Habitat (within 5m)**	% canopy cov.:
Trap type:☐ Promar ☐Crab ☐D ☐Other		% em. herb. cov:	% sub. herb. cov.:
Dominant Sp (5m):	Dist. Upland(m):	Wetland type: ↓	% shrub cov.:

☐ VP ☐ em ☐ ss ☐ d fo wet ☐ pond ☐ riv ☐ ditch
☐ wetland ecotone ☐ other :

Trap #5 Coord. (dd.dddd, -dd.dddd):

Time set:	H20 depth (m):	**Habitat (within 5m)**	% canopy cov.:
Trap type:☐ Promar ☐Crab ☐D ☐Other		% em. herb. cov:	% sub. herb. cov.:
Dominant Sp (5m):	Dist. Upland(m):	Wetland type: ↓	% shrub cov.:

☐ VP ☐ em ☐ ss ☐ d fo wet ☐ pond ☐ riv ☐ ditch
☐ wetland ecotone ☐ other :

Spotted Turtle Project TRA/DA Trap Check Form Instructions

What date did you first set these traps for this trap event?

Name (or initials) of observer.

Today's date. This form should be completed each time traps are checked. One form should be completed / site / check day. 12 forms will be completed for a 12 night DA site, 4 forms for a TRA site.

Note the number of spotted turtles in the trap.

Reference Plot Number within the site: 1, 2, 3, or 4. Each site should have 4 reference plots, with 200m radii. 5 traps should be set in each reference plot for a total of 20 traps at a site during a trap event. DA events are 12 nights (can be grouped into 3, 4 night trap runs). TRA events are 4 nights.

Trap Number: Within each reference plot, 5 traps should be placed.

Site: use 6 letter site code: "State – County – 2 letter SiteID". For example: "MA-HA-BB (=Mass, Hampshire, Broad Brook)

Check the box in this column if the trap was not working that day (either had a hole, was not installed, etc.)

Check the air temperature once in each reference plot and record in these boxes. Air temperature should be taken in the shade.

Check the water temperature at each trap. Water temperature should be taken 10 cm below the surface, adjacent to a trap.

Note the ID numbers of each spotted turtle observed in the trap today. Fill out an individual turtle observation form for each CLGU observed. If the numbers can not fit in this box, use the comments section at the bottom.

Note the number of other turtle species in the trap (and which species in the column heading). Use comment field if additional space is needed.

Note any additional comments about the site, the weather, trap damage issues, etc. Note also whether animals were placed back in the traps or removed.

Note any other species observed in the trap (e.g., pickerel, chub, bullfrog, etc.). Include additional information in Comments field if necessary

Form

Spotted Turtle Trap Assessment
2018 TRAP CHECK FIELD FORM (3/6/2018)

☐ TRA
☐ DA

Site Code:

Observers:

State: Today's date: Set date:

Check this column if the trap is not working

Ref. Pt	Trap #	# CLGU	List CLGU ID #s	Other turtle spp.	Other bycatch	↓	Air Temp (C)	H20 Temp (C)
1	1							
	2							
	3							
	4							
	5							
2	1							
	2							
	3							
	4							
	5							
3	1							
	2							
	3							
	4							
	5							
4	1							
	2							
	3							
	4							
	5							

Comments (include additional notes on bycatch, if necessary):

Spotted Turtle Project Visual Rapid Assessment Form Instructions

Record the number of observers conducting the survey and the name of the lead observer

Reference Plot Number within the site: 1, 2, 3, or 4. During time constrained surveys, each reference plot should be surveyed for 20 minutes during each of 3 visits. Unconstrained surveys are not limited to 20 minutes, but should still be repeated 3 times. This form should be filled out for each survey of each reference for a total of 4 forms/day and 12 forms for the whole VRA.

Record start and end location in decimal degrees. Use NAD83, or report other datum.

Time constrained assessment type:
1. For small (<0.1 ha), seasonal wetlands
2. For straight, linear wetland features
3. For larger or amorphous wetlands that make up the majority or entirety of a reference plot.

Unconstrained assessment: conduct survey on foot anywhere within a reference plot for as long as it takes to adequately sample the plot, regardless of wetland configuration.

Record time taken to process each turtle, use to subtract from total time so the time constrained VRA lasts 20 minutes.in each plot.

Record which observer found each turtle (in order to determine # found by lead observer)

CLGU notch code. Also fill out Individual Turtle Form for each turtle captured. If more space is needed, use the comments field to note turtle ID.

Tally total # of CLGU found during survey, and the number found by the lead observer. Also tally the number of spotted turtle by sex (male/ female/ juvenile/ unknown) and how many were observed on land or in water

Site: use 6 letter site code: "State – County – 2 letter SiteID". For example: "MA-HA-BB (=Mass, Hampshire, Broad Brook)

Record air and water temp of site in degrees Celsius.

Record start and end time.

Note sky conditions during survey: Clr = Clear, PC = Partial Clouds, Ovc = Overcast, Rn = Rain.

If survey is unconstrained, please provide track details or file details

Wetland type surveyed (check all that apply):
vp: vernal pool; **em:** emergent marsh (herbaceous perennials are dominant) ; **ss:** scrub shrub (dominated by shrubs < 3m high) ; **dfo wet:** deciduous forested wetland (e.g., red maple swamp); **pond:** open water with unconsolidated organic bottom; **riv:** river or stream with a clear channel and discernible flow; **ditch:** linear wetland feature; **beaver impoundment**: any indication of a beaver manipulated wetland; **wetland ecotone:** border between two cover types; **Other:** please describe if different from above

Describe % cover within a 5m radius circle surrounding capture location: **canopy cov.:** canopy (>3m high) cover, **Shrub**: woody stems <3m high; **em. herb. cov**: emergent/floating herbaceous vegetation; **sub. herb. cov.:** submerged herbaceous vegetation.

Record dominant plant species within a 5m radius circle surrounding capture location.

Record other species (herps and SGCN) and number of each species observed.

Record total time spent processing (will be subtracted from start and end times to calculate active survey time.

Distance to upland (m).

Are traps currently set at this reference plot?

Spotted Turtle Visual Rapid Assessment
2018 FIELD FORM (3/7/2018)

| Site Name: | |
| Site Code: | |

# Obs:	Lead Obs:		Air Temp (C):
Ref Plot:☐1 ☐2 ☐3 ☐4	Site visit: ☐1 ☐2 ☐3	H20 Temp (C):
Start Coord.(dd):		Start Time:
End Coord.(dd):		End Time:
Time Constrained: ↓☐1 ☐2 ☐3 ☐Uncnstrnd→	GPS Track Info:	Sky:☐Clr ☐PC ☐Ovc ☐Rn

Wetland Area (ha):
Wetland Shape:☐ Circular ☐ Linear ☐ Amorphous
Wetland Type (check all that apply): ☐VP ☐em ☐ss ☐d fo wet ☐pond ☐riv ☐ditch
☐beaver impound. ☐wetland ecotone ☐other :

CLGU Info			Habitat					
			% cover (within 5m)				Dist Upl. (m)	Dominant Plant Species
ID#	Process Time	Obs	Canopy	Shrub	Em Herb	Sub Herb		

Summary: Total CLGU:_____ Lead Obs Total: _____
M:_____ F:_____ J:_____ U:_____ Land:_____ H2O:_____

Total time not surveying:

Traps in H2O ☐Y ☐N

Other species observed:

Comments:

Spotted Turtle Project Individual Turtle Form Instructions

Turtle ID: The number that the turtle was notched (note notch code on form).

Was the turtle in a trap of was it caught by hand?

Site: use 6 letter site code: "State – County – 2 letter SiteID". For example: "MA-HA-BB (=Mass, Hampshire, Broad Brook)

If in a trap, what is the trap ID? (For example: Ref1-Trap1)

General health: Does the turtle appear sick? (e.g., note lethargy, sores, fresh injuries or infection).

If not in a trap, what were the turtle's latitude and longitude (in decimal degrees). Use NAD1983 (or note datum if different).

SCLmin: straight carapace length (the shortest distance down the centerline of the carapace, including nuchal)

SPLmin: straight plastron length (the shortest distance down the centerline of the plastron)

CW: Carapace width at the 2nd and 3rd vertebral line
SH: Shell height at 2nd and 3rd vertebral line.

PW (optional) : Plastron width at humeral/pectoral seam.

Note whether you notched, PIT-tagged, photographed, measured or collected tissue from the turtle. Complete appropriate boxes below. (e.g., notch system: Ernst, State of NH, etc.)

Report the degree of plastral shell wear using the right abdominal as a surrogate for the rest of the plastron. Note whether the abdominal scute is "not worn", "partly worn <50%", "mostly worn >50%," or "completely worn (no annuli visible)"

How many annuli are visible on the plastron?

Note any distinctive marks. Also note notch code.

Scute morphology: Does the turtle have normal scute morphology (i.e., 12 marginals on both sizes, 5 vertebrals, 4 costals on both sides, and complete set of plastral scutes)? If not, what is unusual?

Was this the first time the turtle was ever captured? (initial capture, no previous notches); or was the turtle a recapture (i.e., it had been previously marked)?

Does the turtle have any injuries (for example: stub tail or missing limbs)? If so, which limb, and how much is missing? For example: "missing rt. front limb at elbow".

Spotted Turtle Individual Form (3/6/18)

Spotted Turtle Individual Form (3/6/18)		Site Name:	
		Site Code:	
Observer(s):			
Turtle ID# :	Date:		Time:
Cap. Method: ☐Hand	☐Trap →	Ref. # (circle): 1 2 3 4	Trap #:
Sex:	Coordinates (dd.dddd):		
↓☐meas. ☐notched ☐tissue ☐photos ☐PIT↓			
SCLmin (mm):	PIT number:		
SLPmin (mm):		Wear class: ☐ not worn	
CW (optional):	Photo file names:	☐≤50% worn	
PW (optional):	Visible annuli:	☐>50% worn	
SH (optional):	General health: ☐ lethargy	☐ ≥ 90%worn	
Mass(g):	☐ URT distress ☐sores ☐other:		
Scute morphology:	Injuries: ☐ tail ☐eye ☐limb (specify)		
☐normal ☐irregular (specify or mark below)	☐ initial capture (not marked before)		
	☐ previously marked		
	☐ gravid ☐ not gravid		
Indicate notches and record marks or injuries:			
Comments:			