

Appendix III.1. Data form and codes/definitions for the Shasta Salamander.

CODES/DEFINITIONS

P__of__:	Page number of total pages for this particular site.
Date:	Day/Month/Year.
Site Visit No.:	With no HYSH detections, 3 site visits should be conducted. Is this visit number 1, 2 or 3?
Surveyor(s):	Names of observers included on data form, including middle initials.
Location (Legal):	Township, range, section, and quarter section (1/16th or better should also be recorded). Sites need to be relocated to within 100 m.
Latitude/Longitude:	Include to the greatest precision possible.
UTM N, E.	Universal Transverse Mercator coordinates, north and east, to nearest m or best measure possible.
Location description:	Very important. This is a written description of how you got the area and just where the species was detected. Use additional sheets if necessary.
Habitat Surveyed:	Rock outcrop and slope surveys should be recorded separately on different forms.
Site Description:	Written description of site, including size of rocks available, or other cover for HYSH, vegetation, etc.
Elevation:	Elevation in m from GPS or topographic map.
Aspect:	Azimuth reading to nearest degree along downhill slope.
Slope:	% gradient of downhill slope, or state range if slope varies.
Photograph taken:	Photograph of site

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Site sketch:	Include drawing of survey route and potential priority areas.
Weather:	Predominate type since previous midnight: C = clear; O = overcast; F = fog; C = cloudy. Predominate precipitation since the previous midnight: F = Fog/mist; D = drizzle; L = light rain; M = moderate rain; H = heavy rain; S = snow, sleet, or hail.
Conditions:	Collected three times during surveys.
Air Temp.:	Air temperature in °C, measured at chest height.
Rel. Hum.:	Air relative humidity, measured at chest height.
Species:	Four-letter code (GENus and SPecies names) of species sampled. All species of amphibians are recorded. All individuals are recorded. Use additional sheets of paper if necessary
Stage:	H = hatchling (terrestrial species); J = juvenile (terrestrial species, includes subadults); A = adult (showing secondary sexual characters or of approximately reproducible size for terrestrial species; any fully metamorphosed aquatic species)
SVL:	Optional data: Snout-vent length, in mm, to posterior margin of vent. Total length, in mm, may also be recorded (TL).
Cover:	Optional data: Cover object. Include what an animal is on, in, and under. Cover objects include wood, rocks, substrate, vegetation, litter, etc.
Approx. Area:	The measurement or estimate of the area (length * mean width) that was searched.
Total Time Sampled:	The net amount of time in minutes that was actually spent doing the survey.
Voucher:	Indicate whether photographic or preserved voucher specimen was collected. Deposition includes where voucher is maintained and how it is catalogued.

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- Site Marker:** Written descriptions of how the site was marked with particular reference to permanence of the markers.
- First Capture Location:** Precise location of detections is needed.
- Estimated area of contiguous habitat:** A Known Site is both the mapped point of detection and the area inhabited by the species. The areas of contiguous rock and slope habitats will enable site-areas to be estimated.
- Taxa-expert contacted? :** Few sites are known for this species. Species experts should be contacted to confirm detection and include site in the database.
- Tally Sheet for Time and Area Searches:** *Optional* form to track search effort.

SHASTA SALAMANDER SURVEY DATAFORM P ___ of ___

Date (DMY) _____ Site Visit No. (circle) 1 2 3
Surveyor(s) _____

Location (Legal) T_____, R_____, 1/4Sec _____ Latitude _____ Longitude _____
UTM N _____ E _____
Location Description (be precise) _____

Map Attached (yes/no) _____
Habitat type surveyed (circle one, use one form per type): Rock outcrop or Slope

Site Description _____

Elevation _____ (ft or m) Aspect _____ Slope _____
Photograph taken/attached: yes/no _____ Site sketch attached: yes/no (indicate search path)

Weather Description _____

Search Method Used (circle one): HYSH Protocol or other (explain here) _____

<u>Start Conditions</u>	<u>Mid-day Conditions</u>	<u>End Conditions</u>
Time _____	Time _____	Time _____
Air Temp. _____ °C	Air Temp. _____ °C	Air Temp. _____ °C
Rel. Hum. _____ %	Rel. Hum. _____ %	Rel. Hum. _____ %

Species Occurrences

Species	Stage	Optional		Species	Stage	Optional	
		Size (SVL)	Cover			Size (SVL)	Cover
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Total Time (min.) Sampled = _____ Approx. Area = _____ acre or ha (circle one)

For New Detections:
Voucher Collected (yes/no). If yes, Photograph or Specimen (circle one) Deposition _____
Site Markers _____
First Capture Location (Legal) T_____, R_____, 1/4Sec _____ Latitude _____ Longitude _____
UTM N _____ E _____
Estimated area of contiguous habitat: Rock _____ Slope _____ (units? ha/acre/m²/other)
Taxa-expert contacted? Yes/No If yes, who/when? _____

NOTES (page attached with additional field notes: Yes/No)

Optional Tally Sheet for Time and Area Searches

Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____
Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____
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Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____	Start time _____ Stop time _____ Total _____

Running Tally of Search Area Covered (square meters):