Appendix A. Front side of datasheet (by AGFD)

Springsnail Survey Form: **Presence / Absence with Timed Counts**

Site: _____ Landowner: _____ Date: _____ (YYYYMMDD) Recorder: _____ (full name) Searcher: _____ (full name)

Spring Name or ID Code	Search Time			Distance from Springhead (meters) Where Springsnails were Encountered		Substrate (live/dead vegetation, silt, pebble, rock)	
	Start	End	Total	Start	End	Searched	With Snails Present

Organisms Present (yes/no)										
Springsnails	Ramshorn Snails	Physa Snails	Fishes	Amphipods	Crayfish	Frogs	Caddisflies	Aquatic Beetles	Odonata Larvae	Other Macroinvertebrates

UTMs (NAD83)	N: E:	Elevation: m ft	Count of Springsnails: (10 min search)	Time to 1st Springsnail:	Notes:

Spring Name or ID Code	Search Time			Distance from Springhead (meters) Where Springsnails were Encountered		Substrate (live/dead vegetation, silt, pebble, rock)	
	Start	End	Total	Start	End	Searched	With Snails Present

Organisms Present (yes/no)										
Springsnails	Ramshorn Snails	Physa Snails	Fishes	Amphipods	Crayfish	Frogs	Caddisflies	Aquatic Beetles	Odonata Larvae	Other Macroinvertebrates

UTMs (NAD83)	N: E:	Elevation: m ft	Count of Springsnails: (10 min search)	Time to 1st Springsnail:	Notes:

Sample Tile Counts of Springsnails:

Spring Name or ID Code:							Size of Tiles:		7.5 x 7.5 x 1.5 cm, or				(x x cm)
Tile #	Distance from SH (m)	# on Top	# on Sides	# on Bottom	Total Count	Notes	Tile #	Distance from SH (m)	# on Top	# on Sides	# on Bottom	Total Count	Notes
1							6						
2							7						
3							8						
4							9						
5							10						

Back side of datasheet (by AGFD)

Springsnail Survey Form: **Habitat Data**

Site: _____ Survey Date: _____ (YYYYMMDD) Recorder: _____ (full name) Searcher: _____ (full name)

Spring Name or ID Code	Spring Run Physical Measurements				Water Quality Parameters				Dominant Aquatic Vegetation		Substrate Composition (as Percent Cover)				
	Total Wet Length of Spring Run (m)	Transect #	Width (m)	Depth (cm)	Flow (cm/s)	Temp (°C)	pH	Cond (µS)	Species or Type	Percent Cover	Boulder	Cobble	Pebble	Sand	Silt
		SH													
AZGFD Region	Length Occupied by Springsnails (m)	Mid													
		EOW													

Spring Run Aspect (Direction of Flow)	Evidence of Habitat Disturbance		Notes (describe observed stressors & level of impact):
N NW NE W E SW SE S (circle one direction)	**Springhead Modification** (spring box or piped flow)	Y or N	
	Livestock or Elk (grazing, trampling, or wallowing)	Y or N	
	Off-trail OHV Use (trampling)	Y or N	
	Wildfire (sedimentation/ash flows or fire-fighting chemical contaminants)	Y or N	
	Human Disturbance (check dams, diversions, trampling, use of soap, litter)	Y or N	
	Pesticide Use (contamination)	Y or N	
	Aquatic Invasive Species (crayfish, mosquitofish, or NZ mudsnails)	Y or N	
	Drought (reduced wetted reach of spring run or dry springhead)	Y or N	
	Other (describe in notes)	Y or N	

Substrate Composition Approximate Size Comparison	Spring Flow Qualitative Estimate (if unable to measure flow velocity)	Sketch of the Spring (identify "SH"=springhead, path of the spring run flowing downslope, "EOW"=end of water, other features like pooled water, spring box, etc.)
Boulder = 256 mm (volleyball size)	L = little or no flow; mostly stagnant	
Cobble = 64 mm (tennis ball size)	M = moderate flow; moves fine particles	
Pebbles = 2 mm (match head size)	H = high flow with turbulence; strong riffles	
Sand = 1.5 to 0.1 mm	Transect "SH" is the springhead, "Mid" is the mid-point of the run, & "EOW" is the end of water	
Silt = < 0.1 mm		

Aquatic Vegetation Species Codes
(first two letters of the genus and first two letters of the species; unless otherwise noted)

NAOF = Watercress	HYVE = Water Pennywort	FIAL = Filamentous Algae
RUVE = Dock	POGR = Pondweed	BRAL = Brown Algae
LEMI = Duckweed	ELOC = Waterweed	DETR = Detritus / Organics
JUSP = Rush	MIGL = Monkeyflower	MOSS = Moss
CASP = Sedge	BEER = Water Parsnip	UNK = Unknown
RAAQ = Crowfoot	VEAQ = Water Speedwell	NONE = No vegetation

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