

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number:		
Site code or identifier:	Assessor(s):	
Waterway name:		Visit date:
Current weather conditions (check one) <input type="checkbox"/> Storm/heavy rain <input type="checkbox"/> Steady rain <input type="checkbox"/> Intermittent rain <input type="checkbox"/> Snowing <input type="checkbox"/> Cloudy (___ % cover) <input type="checkbox"/> Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week):	Coordinates at downstream end (decimal degrees): Lat (N): Long (W): Datum:
Surrounding land-use within 100 m (check one or two): <input type="checkbox"/> Urban/industrial/residential <input type="checkbox"/> Agricultural (farmland, crops, vineyards, pasture) <input type="checkbox"/> Developed open-space (e.g., golf course) <input type="checkbox"/> Forested <input type="checkbox"/> Other natural <input type="checkbox"/> Other: _____	Describe reach boundaries:	
Mean channel width (m)	Reach length (m): 40x width; min 40 m; max 200 m.	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): <input type="checkbox"/> Recent flood or debris flow <input type="checkbox"/> Stream modifications (e.g., channelization) <input type="checkbox"/> Diversions <input type="checkbox"/> Discharges <input type="checkbox"/> Drought <input type="checkbox"/> Vegetation removal/limitations <input type="checkbox"/> Other (explain in notes) <input type="checkbox"/> None		Notes on disturbances or difficult site conditions:
Observed hydrology: _____ % of reach with surface flow _____ % of reach with sub-surface or surface flow # of isolated pools		Comments on observed hydrology:

Site sketch:

1. Hydrophytic plant species




Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: No vegetation in assessment area No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

<p>2. How many aquatic invertebrates are quantified in a 15-minute search?</p> <p>Number of individuals quantified: <input type="checkbox"/> None <input type="checkbox"/> 1 to 19 <input type="checkbox"/> 20 +</p> <p>(Do not count mosquitos)</p> <p>Photo ID: _____</p>	<p>3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?</p> <p style="text-align: center;">Yes / No</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Ephemeroptera larva Image credit: Dieter Tracey</p> </div> <div style="text-align: center;">  <p>Plecoptera larva Tracey Saxby</p> </div> <div style="text-align: center;">  <p>Trichoptera larva Tracey Saxby</p> </div> </div>
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Notes on aquatic invertebrates:

4. Algal Cover

<p>Are algae found on the streambed?</p> <p><input type="checkbox"/> Check if <i>all</i> observed algae appear to be deposited from an upstream source.</p>	<p><input type="checkbox"/> Not detected <input type="checkbox"/> Yes, < 10% cover <input type="checkbox"/> Yes, ≥ 10% (check Yes in single indicator below)</p>	<p>Notes on algae cover:</p>	<p>Photo ID:</p>
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5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	<input type="checkbox"/> Yes <input type="checkbox"/> No, no fish <input type="checkbox"/> No, only non-native mosquitofish		
Algae cover ≥ 10%	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description

Additional notes about the assessment:

Classification: _____

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover \geq 10%	Classification	
None	None	Absent	Absent	Absent	Ephemeral	
			Present	Present	At least intermittent	
	Few (1-19)	Absent	Absent	Absent	Less than Perennial	
			Present	Present	At least intermittent	
		Present	Absent		Intermittent	
			Present		Perennial	
	Many (20+)	Absent	Absent	Absent	Ephemeral	
			Present	Present	At least intermittent	
		Present	Absent		Ephemeral	
			Present		At least intermittent	
	Few (1-2)	None				Intermittent
		Few (1-19)	Absent			Intermittent
Present			Absent		Intermittent	
Many (20+)		Absent			Perennial	
		Present	Absent		Intermittent	
Present			Present		Perennial	
			Present		Intermittent	
Many (3+)		None				Intermittent
	Few (1-19)	Absent	Absent		Intermittent	
		Present	Present		Perennial	
	Present				Perennial	
					Perennial	

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.