Northeast Streamflow Duration Assessment Method

General site information

Project name or number:		
Site code or identifier:	**Assessor(s):**	
Waterway name:		**Visit date:**
Current precipitation: □ None □ Rain □ Snow/Ice □ Light □ Moderate □ Heavy Notes:	**Recent weather**: (e.g., precipitation in prior week):	**Coordinates at downstream end (decimal degrees), Device:** Lat (N): Long (E): Datum:
Surrounding land-use within 100 m (check one or two): □ Urban/industrial/residential □ Agricultural (farmland, crops, vineyards, pasture) □ Developed open space (e.g., golf course) □ Forested □ Other natural □ Other:	**Describe reach boundaries:**	
Mean bankfull channel width (nearest 0.1 m): (Indicator 1) _____ _____ _____	**Reach length (m):** 40x width min 40 m max 200 m	**Site photographs**: Enter photo ID. Top down: _____ Mid down: _____ Mid up: _____ Bottom up: _____

Disturbed or difficult conditions (check all that apply):

□ None
□ Recent flood or debris flow
□ Stream modifications (e.g., channelization)
□ Diversions
□ Discharges
□ Drought
□ Vegetation removal/limitations
□ Other (explain in notes)

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:

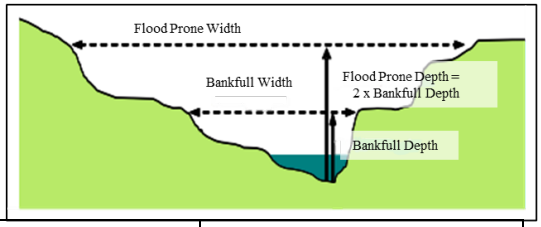
Site sketch:

1. Mean bankfull channel width (m) (nearest 0.1 m, copy from first page of field form)

Notes about mean bankfull channel width:

2. Entrenchment ratio

Measure at relatively straight section of reach avoiding pools and bends in the stream. Max entrenchment ratio value is 2.5. Entrenchment ratio of Locations 1+2+3 / 3 = Average entrenchment ratio.



		Bankfull width (m)	Flood-prone width (m)	Entrenchment Ratio (Flood-prone /Bankful)	Check if Flood-prone width is >2.5x bankfull width
Average entrenchment ratio:	Location 1				☐
	Location 2				☐
	Location 3				☐
Notes:					

3. Aquatic macroinvertebrates: BMI Score

Collect aquatic macroinvertebrates from at least 6 locations in the assessment reach, searching all suitable habitats on the streambed (including dry habitats, if present).

_____ (0-3)	0 (Absent) No aquatic macroinvertebrates observed. 1 (Weak) Total abundance is 1 to 3. 2 (Moderate) Total abundance ≥4 3 (Strong) Total abundance ≥10 and richness ≥3 OR Total abundance < 10 and richness ≥5 *Note: Richness is based on family-level identification for aquatic insects and mollusks, order-level for crustaceans and mites, and class or phylum for all other aquatic macroinvertebrates.*

Taxa/Notes:

4. Slope

Using a clinometer or other device, record the slope at bankfull as a percent, up to the nearest half-percent. If multiple sights are needed to cover the entire reach, record each and calculate a weighted average to get slope:

1)_____% slope _____% of reach
2)_____% slope _____% of reach
3)_____% slope _____% of reach
4)_____% slope _____% of reach

Notes about slope:

5. Shading

At the center of three transects, use a modified convex spherical densiometer (see Section 2.8.5 of the NE and SE SDAM) to record the number of points covered by trees, canyon walls, buildings, or other structures that provide shade (up to 17 points per location). Calculate percent shading as the percentage of points covered by such structures (total points covered divided by 204).

Percent shading:_____	*Downstream transect*	*Middle transect*	*Upstream transect*	
Facing upstream	/17	/17	/17	
Facing right bank	/17	/17	/17	Total number of points covered:
Facing downstream	/17	/17	/17	_____ / 204 * 100%
Facing left bank	/17	/17	/17	

Notes on shading:

6. Drainage area (in square miles, if < 1 round to the nearest 0.001)

Notes about Drainage are including method/tool(s) used to calculate:

7. Elevation (m)

Photo log

Indicate if any other photographs taken during the assessment:

Photo ID	Description

Additional notes about the assessment including observations of fish (other than mosquitofish, *Gambusia* sp.):

Model classification:

- ◯ Ephemeral
- ◯ At least intermittent
- ◯ Intermittent
- ◯ Less than perennial
- ◯ Perennial
- ◯ Needs more information