Beta Streamflow Duration Assessment Method - Western Mountains

General site information

| Project name or number: | | | |
|---|---|--|--|
| Site code or identifier: | Assessor | (s): | |
| Waterway name: | | | Visit date: |
| Current weather conditions (check Storm/heavy rain Steady rain Intermittent rain Snowing Cloudy (% cover) Clear/Sunny | one): Notes on curren conditions (e.g., week): | t or recent weather precipitation in previous | Coordinates at downstream end (decimal degrees): Lat (N): Long (E): Datum: |
| Surrounding land-use within 100 Urban/industrial/residential Agricultural (farmland, crops, v Developed open-space (e.g., go Forested Other natural Other: |) m (check one or two): rineyards, pasture) If course) | Describe reach boundari | ies: |
| Mean bankfull channel width (m) (Indicator 5) | Reach length (m): 40x width; min 40 m; max 200 | m. Site photogra Enter photo II Top down: Mid up: | phs: O or check if completed Mid down: Bottom up: |
| Disturbed or difficult conditions (check all that apply): Notes on disturbances or difficult site conditions: Recent flood or debris flow Distram modifications (e.g., channelization) Diversions Discharges Drought Vegetation removal/limitations Other (explain in notes) None | | | |
| Observed hydrology: % of reach with surface flo | ЭW | Comments on observed | l hydrology: |
| % of reach with sub-surfac | ce or surface flow | | |
| # of isolated pools | | | |

Site sketch:

1. Aquatic invertebrates

Collect aquatic invertebrates from at least 6 locations in the assessment reach. Identify mayflies and perennial indicator families.

Perennial indicator families:

| Mollusks | Insects (larvae or pupae only) | | |
|--------------------------------------|------------------------------------|------------------|--|
| Snails: | Caddisflies: | Beetles: | |
| Pleuroceridae | Rhyacophilidae | • Elmidae | |
| Ancylidae | Philopotamidae | Psephenidae | |
| Hydrobiidae | Hydropsychidae | | |
| Bivalves: | Glossosomatidae | Dobsonflies | |
| Margaritiferidae | | Corydalidae | |
| Unionidae | Stoneflies | | |
| | Pteronarcyidae | Odonates | |
| | Perlidae | Gomphidae | |
| | | Cordulegastridae | |
| | | Calopterygidae | |

| | | | Check one | | | |
|-------|-------------------------|--------|----------------------------------|-------|-------|----------|
| Taxon | Abundance (up to 10) | Mayfly | Perennial indicator family | Other | Notes | Photo ID |
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| Aquatic invertebrate metrics | | | |
|------------------------------|--|--|--|
| 1-1. Total abundance | | 1-3. Abundance of perennial indicator families | |
| 1-2. Abundance of mayflies | | 1-4. Number of perennial indicator families | |

General notes on aquatic invertebrates:

2. Algal cover on the streambed

| Are algae found on the streambed? □ Check if <u>all</u> observed algae appear to be deposited from an upstream source. | □ Not detected □ < 2% □ 2 to 10% □ 10 to 40% □ > 40% | Photo ID: |
|---|--|-----------|
| Notes on algae cover: | | |

3. Fish abundance

| Fish abundance score (0-3) | Scoring guidance: 0: None observed | Photo ID: |
|---|--|-----------|
| □ Check if <i>all</i> fish are non-native | 1: Scarce. Takes 10+ minutes of extensive searching to find. | |
| mosquitofish. | 2: Found with little difficult, but not consistently throughout reach. | |
| Half-scores are allowed | 3: Found easily and consistently throughout the reach. | |
| Notes: | | |
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4. Differences in vegetation

| | Scoring guidance: | Photo IDs: |
|-----------------|--|---------------------------|
| | 0: No compositional or density differences in vegetation are present | |
| | between the streambanks and adjacent uplands | |
| D:00 · | 1: Vegetation growing along the reach may occur in greater densities or | |
| Differences in | grow more vigorously than vegetation in the adjacent uplands, but | |
| vegetation | there are no dramatic compositional differences between the two. | |
| score (0-3) | 2: A distinct riparian vegetation corridor exists along part of the reach. | |
| Half soores are | Ripartan vegetation is interspersed with upland vegetation along the | |
| allowed | 3: Dramatic compositional differences in vegetation are present | |
| anowed | between the stream banks and adjacent unlands A distinct riparian | Recommended photos: |
| | corridor exists along the entire reach Rinarian aquatic or wetland | 1) channel vegetation and |
| | species dominate the length of the reach | 2) unland vegetation |
| | species dominate the rengan of the reach. | 2) uptana vegetation |
| Notes: | | |
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5. Bankfull channel width (copy from first page of field form):

6. Sinuosity



7 and 8. Climatic indicators.

Use the web application (https://sccwrp.shinyapps.io/beta_sdam_wm/) to calculate.

| Snow persistence (%) | May precipitation (mm) | October precipitation (mm) | Mean annual max temperature (°C) |
|-------------------------------------|---------------------------|----------------------------|-------------------------------------|
| | | | |
| Snow Influenced Non-Snow Influenced | | | |

Supplemental information

(e.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.)

Photo log

Indicate if any other photographs taken during the assessment:

| Photo ID | Description |
|----------|-------------|
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| | |

Additional notes about the assessment:

Model Classification:

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