

MonitoringResources.org has five components, a user can use one, some or all of these components. Within each component there is a short list of necessary fields to complete the documentation, but users can fill in additional fields to improve their metadata documentation. Below are the components in MonitoringResources.org:

- **Study Design Tool** helps define project objectives and an overall monitoring plan.
- **Method Builder and Library** supports documentation of the step-by-step processes for collecting and analyzing data.
- **Protocol Builder and Library** allows users to combine multiple methods into a protocol to define the suite of information collected and analyzed, including use of previously published methods from the method library.
- **Master Sample Library** stores, displays, and documents master samples—a master sample consists of a set of potential sample locations from which monitoring sites can be selected. Use of master samples allows data from multiple monitoring programs to be more easily shared, integrated, and used for other applications.
- **User Sample File** leads users through the process of uploading planned sampling sites to *MonitoringResources.org*.
- **Sample Designer Tool** helps users Create and document multiple types of sample designs;
 - Use a master sample to select and document spatially balanced, random sample sites and define the temporal plan for sampling; the selection process uses the Generalized Random Tessellation Stratified (GRTS) algorithm commonly used by agencies, monitoring organizations, and scientists;
 - Track site evaluation status before and during sampling; and
 - Share sampling dates, times, and implementation details with others.

Here is the landing (home page) for www.MonitoringResources.org

Monitoring Resources
sponsored by: pacific northwest aquatic monitoring partnership

HOME DOCUMENT DESIGN EXPLORE CONNECT LEARN

Find

Find and view monitoring sites (aka samples), including master samples. Compare attributes included in various samples. Import new or old samples and update attributes of sites within existing samples. If designing a GRTS sample that requires integrating existing sites (aka user sites), start here before starting on your sample design.

LEARN MORE ABOUT SAMPLES MONITORING EXPLORER

LEARN
how to design a monitoring program

DEFINE
your monitoring program

FIND
monitoring sites and data

CREATE
a Sample Design based on a Master Sample

IMPLEMENT
your monitoring program

DOCUMENT
and share monitoring protocols and methods

Pacific Northwest Aquatic Monitoring Partnership

Monitoring Resources provides a network of information and tools to support many facets of ecological and biological monitoring. These resources include orientation and educational materials, a community forum, a place to document and share your monitoring methods, the ability to describe your monitoring projects and upload your sample sites, and tools for creating sample designs based on a master sample. Monitoring Resources also includes a Glossary of monitoring terms to help us all get on



Recent Comments

- "Generalizing Location and adding details elsewhere" on Protocol: 1960
05/14/2018 09:48 PM by Sam Cimino
- Reply to "Generalizing Location and adding details elsewhere" on Protocol: 1960

Below are screenshots from each component.

Study Design

- ▶ Study Design Details
- ▶ Edit Study Design
- ▶ Photos & Forms

Study Design: ODEQ- Wadeable Streams Assessment Field Operations Manual

Created by
[Rebecca Scully](#)
on 8/30/2013

ID:
1110

Edit Study Design

*** Name**
Name should be concise, but informative, like the title of a paper. It may help to include some key terms such as [organization](#), location or species.

*** Monitoring Program** Not Listed?

*** Protocol** Not Listed?

Owner

Monitoring Purpose
Identify your Protocol's [Monitoring Purpose](#). If it has more than one purpose, select its primary one.

Est. Cost / Site
Please estimate an average cost for completing the protocol per site. This is generally calculated using the number of people and amount of time per site. You may also want to include equipment costs (if incurred during the study period) and travel costs.

*** Background / Rationale**

How did this [study design](#) come about? Why would you apply this [protocol](#) and these [sample design](#)? Which management questions does it aim to answer? Be descriptive. If you have diagrams or tables, please refer to them in the text above, then [upload](#) them.

*** Objectives for this Design**

Characters Remaining: 85

Characters Remaining: 13

Characters Remaining: 117

Method Builder

Basics

* **Method Title**

Enter a method name that is concise, but informative. Use Title Casing. Method Names should be unique to help differentiate your method from other methods. For example, "Redd Count Survey" is more helpful and descriptive than just "Redds". Please do not include any acronyms, organization affiliations, or other project-specific details in your title (or anywhere in your method).

* **Method Type**

Choose a category to help classify your method to make it easier to find.

Background / Abstract

The Background should NOT get into specifying [Study Design](#) since that is covered by the Protocol documentation. If you have diagrams or tables, please refer to them in the text above, then [upload](#) them. **Words: 0/1500**

* **Step by Step Instructions**

If you have diagrams or tables, please refer to them in the text above, then [upload](#) them. **Words: 0/4000**

Method Unit

Equipment

Words: 0/1500

Full Details Upload File Use URL

The URL provides full details of this Method.

Protocol Builder

- Protocol Details
- Comments
- Change Log
- Photos & Forms
- Implementation Notes
- Edit Protocol**
 - Basics & Objectives
 - Metrics & Indicators
 - Methods
 - Metric Mapping
 - Literature Cited
 - Citation

Request Publishing

Requests that your Protocol be "Published." Others can view it, you cannot edit it. [Why cant I publish my Protocol?](#)



Protocol: fsd v1.0

ID: 3417		State: Draft	Version: 1.0	Rating: 0.0/3.0 (0 votes)
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Owner: [Rebecca Scully](#) Referenced: 0 times Created by: [Rebecca Scully](#)
Visibility: Owner and colleagues No. of Methods: 0 Created: 5/15/2018
Tags: [Edit Tags](#) Updated by: [Rebecca Scully](#)
Subscribers: <none> Updated: 5/15/2018
Version History: v1.0 **Draft** (5/15/2018)

COMPLETENESS: 36%

EDIT: Basics & Objectives

State:

Visibility:

* Protocol Title:
[Protocol](#) Title should be concise, but informative, like the title of a paper. It may help to include some key terms from its [Study Design](#)

Additional Details: Upload File Use URL

Full web address (starting with "http://"). This is the place you'd send someone today who wants to know more about your protocol or your monitoring project/program.

Monitoring Program:
[Not Listed?](#) Some Protocols are part of a [Monitoring Program](#), others are not. Sponsoring Org: [None](#)

* Background / Rationale:

User Sample



- ▶ User Sample File Details
- ▶ Documents
- ▶ Edit
 - ▶ Edit Basics
 - ▶ Import From File
 - ▶ Edit Data Table
 - ▶ Add/Edit Sites
 - ▶ Review And Finalize

User Sample: test

ID: 11284	State: Draft	
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Owner: [Rebecca Scully](#) Created: 5/15/2018
Updated:

Edit Basics

* User Sample Title:

Location Privacy:

Additional Details: Upload File Use URL

Target Population:

Describe in detail the [target population](#) for which the User Sample File is designed to make inferences. Include information about the spatial extent of the investigation, the size, and other specifics.

Sample Frame:

Provide details about your [sample frame](#) – the set of sites that represent the [target population](#). For example, a target frame may be all streams in Idaho with perennial flow, with a small size. Your sample frame describes how and which of those sites you plan to sample, to get a representative sample.

Frame Length / Area: [select one] ▼

State: Draft


[Why can't I change this?](#)

Sample Design

- Overview
- Documents
- Edit
 - Introduction
 - Basics
 - PREPARE YOUR SITES
 - Import Sites
 - CREATE YOUR DESIGN
 - Select User Sample
 - Create Panels
 - Create Categories
 - Set Block Size
 - Assign Sites
 - Area Of Inference
 - Review And Finalize
 - Evaluate Sites
 - Data Collection

Sample Design: test 66

ID:
15691



State:
Draft

State: Draft
Owner: [Rebecca Scully](#)
Spatial Design Category: Ease of Access
Data Repository: <none>

Sites in Design: 0
Has Location Privacy: No

Created by: [Rebecca Scully](#)
Created: 5/15/2018
Updated by: [Rebecca Scully](#)
Updated: 5/15/2018

Basics

On this page, you can provide introductory information about your sample design including which [Monitoring Program](#) and [Monitoring Project](#) it supports as well as the [Protocols](#) that it utilizes.

*** Design Name:**

Description:

The "start year" is the year that will be mapped to the leftmost column in the panel design. The "initiation year" is the first year that data is actually collected at sites. In most cases, the initiation year and the start year will be the same. The "retirement year" is the last year that data was collected under this design.

Start Year: **Initiation Year:** **Retirement Year:**

*** Study Design:**

Data Repository: [Not Listed?](#)

Organization:

Owner:

State: Draft

Spatial Design Category: Ease of Access