

**To:** CMER

**From:** Westside Type F TWIG

**RE:** Budget and recommendations for implementation of Westside Type F exploratory study

**Date:** February 13, 2018

According to the revised LEAN guidelines, at the completion of the study design process, the TWIG is to provide CMER with recommendations for implementation of the project, and a budget to implement the study design. This document provides the recommendations and budget for the Westside Type F exploratory study.

***Recommendations***

- SAG oversight. We recommend that this project be implemented under the guidance of RSAG, because it is the most relevant SAG for a study of riparian prescription effectiveness. Once the exploratory study is completed, we recommend that ISAG be included in providing oversight in the design of the intensive effectiveness study because it will include a biotic, in-stream component.
- Project team. We recommend inclusion of the TWIG members (Doug Martin, Chris Mendoza, Rebecca Flitcroft and Ashley Steele) on the project team. We recommend that Dave Schuett-Hames and Emily Davis (CMER staff at NWIFC) be the PIs for the project. We recommend that a PM be assigned by the AMPA.
- Data collection. Due to the large number of sites needed (110), the time-consuming process of site screening and obtaining access, and the need to collect shade data during the summer when leaves are present, we recommend that data collection will require two field seasons (summer of 2018 and 2019). We recommend that data collection be done by contractors with experience in forest inventory, to ensure efficient collection of good quality data and because they have working relationships with landowners and are familiar with forest lands.
- CMER staff role. We recommend that the PIs (CMER staff) handle office site screening, act as the point of contact with landowners for permission to access, provide oversight and QA of data collection, and handle data input, error checking, processing, analysis and report writing.
- Statistical analysis. We recommend contracting for services of a statistician to assist in data analysis.

***Budget***

The following budget is our best estimate of funds needed to implement the exploratory study. It includes the following assumptions:

- 138 sites will need to be visited to obtain 110 samples assuming an acceptance rate of 80%.
- Estimated cost of field crew will be around \$1900/day in FY 18 and \$2000/day in FY19.
- On average, data collection will require one day per site.
- CMER staff will be available at no direct charge to the project budget.

Westside Type F Exploratory Study: Budget by fiscal year and task

	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>	<b>Total</b>
<b>Data collection</b>	\$65,110	\$213,750	-	<b>\$268,860</b>
<b>Statistician</b>	-	\$10,000	\$10,000	<b>\$20,000</b>
<b>Total</b>	<b>\$65,110</b>	<b>\$223,750</b>	<b>\$10,000</b>	<b>\$288,860</b>