

## CMER Request

<b>Proponent:</b> RSAG	<b>Date:</b> 06/21/2022
<b>Contact:</b> Joe Murray	<b>PM:</b> Anna Toledo
<b>Project Name/Issue:</b> Riparian Characteristics and Shade (RCS) Study	
<b>Request:</b> RSAG is requesting CMER approve the use of remote sensing techniques in the RCS field trial as an additional method of data collection.	
<b>Funding Source:</b> AMP Budget	<b>Urgency:</b> High
<b>Request Description:</b> <p>RSAG proposes the use of remote sensing to evaluate the riparian forest at the site of the RCS field trial, in particular the use of Lidar and Structure from Motion. Drones could collect both the Lidar and the aerial photographs that would be needed before, during, and after the treatments to analyze and compare the riparian forest structure (e.g. gaps, clusters) influence on shade. The RCS Study Design requires a 100 percent census of all the trees on the study sites, including measuring the height of all the trees in the field.</p> <p>By utilizing all three methods of analysis at the field test site, we would be able to compare the different methods of analysis, how different metrics correlate with shade, and the cost for data collection and analysis.</p> <p>The results of the comparison of all three methods will help us determine the most appropriate and cost-effective method to utilize in the implementation of the full study. Exact cost for the drone work is unknown at this time. We estimate the cost of this work to range between \$18,000 and \$20,000.</p> <p>RSAG is requesting CMER approve the use of remote sensing techniques in the RCS field trial as an additional method of data collection.</p>	