

February 19, 2014
Cross-Watershed Network (XWN) Workshop
 at 2014 Tamarisk Coalition Research and Management Conference

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*Highlighted questions are related to the Landscape Conservation Cooperatives and should be communicated to the LCC representative by the XWN Core Team

Topic: Monitoring

Cost-Effective Monitoring

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> • How can I perform low or no cost monitoring for tamarisk and Russian olive removal projects? • Ho to make monitoring cost effective in restoration to the value of the project? • What monitoring efforts have worked & are effective for planning and management? • Want to do monitoring but don't know the best approach given limited resources/time? • How do I best balance the most effective/complete monitoring protocol with my budget? • How to choose cost effective monitoring methods for multiple small invasive plant control sites? 	<ul style="list-style-type: none"> • Refer to A. Sher's Best Management Practices for Revegetation after Tamarisk Removal book • Learn from the Escalante River Watershed Partnership – contact Amber Hughes ahughes@blm.gov • Use sub-sampling methods – contact Bill Noonan bill_noonan@fws.gov • Contact the Tamarisk Coalition for examples of monitoring protocols jknudson@tamariskcoalition.org • Utilize a mix of monitoring methods in order to maximize cost effectiveness – contact Justin Jimenez for ideas jjimenez@blm.gov (801) 539-4073 or Scott Miller (BLM/Utah State University) National Aquatic Monitoring Center smiller@blm.gov

Standardized Monitoring

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> • Is there a regional standard for monitoring veg treatments? • What monitoring efforts are out there and how best to add to it to make it more comprehensive (standardization)? 	<ul style="list-style-type: none"> • Refer to A. Sher's Best Management Practices for Revegetation after Tamarisk Removal book • Contact the Tamarisk Coalition for examples of monitoring protocols jknudson@tamariskcoalition.org

Shared Labor Sources for Monitoring

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> We have monitoring (long-term) protocols established. Our challenge has been getting the monitoring done. Travelling interns are needed to help with monitoring needs Who are the contractors known for tamarisk removal and restoration monitoring? What are the possibilities for a “citizen science approach to monitoring? Are there effective monitoring protocols for people who have very little plant ID experience? 	<ul style="list-style-type: none"> Contact Nicole nolsker@usbr.gov for information on the Environmental Resource Stewardship Program at Phoenix College Coordinate with universities Rapid Stream Riparian Assessment Monitoring Bosque School Citizen Science Program is a good model Ft. Lewis (Durango, CO) students are available – contact Cynthia Dott dott_c@fortlewis.edu Potential for linking into Audubon annual bird counts? Conservation corps are a great group to work with on monitoring – they are working on developing their capacity in this area

Levels of Monitoring/Correspondence

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> How do I best match a monitoring protocol with my species/subject? 	<ul style="list-style-type: none">

Photo Point Effectiveness

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> Are photo points truly helpful in quantifying monitoring data? Are photo points really enough information to measure success? 	<ul style="list-style-type: none">

Protocols for Baseline Studies

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> Need baseline study conducted first; is there a protocol? 	<ul style="list-style-type: none">

Balancing Priorities

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> How to balance monitoring versus project delivery? 	<ul style="list-style-type: none">

Monitoring Duration

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> What is the longest monitoring study for 	<ul style="list-style-type: none"> It is rare, but critical to have long term

tamarisk removal? <ul style="list-style-type: none"> How long is sufficient pre and post monitoring? 	data sets; the longer and the more detailed the better
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Funding

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> How to find funds for monitoring? 	<ul style="list-style-type: none"> www.riparianrestorationconnection.com for grant resources related to riparian restoration Check back with the Tamarisk Coalition, they are working on trying to get more funding available for this type of work

Impacts of Poor Planning/Preparation

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> Ideas for starting monitoring after projects have been completed – is it worth it? Do we forget why we are monitoring? How do we get groups to ID their monitoring questions and then follow through with a relevant study design? 	<ul style="list-style-type: none"> Don't reinvent the wheel, call Amanda Clements aclement@blm.gov for advice Potential to post testimonials (written or via YouTube) to share bad/good experiences on XWN website

How to Report Results

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> Showing results on monitoring 	<ul style="list-style-type: none">

Aerial Mapping Techniques

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> Aerial mapping techniques for monitoring vegetation...can you differentiate between species? Can you use aerial mapping to establish a baseline? 	<ul style="list-style-type: none">

Comprehensive Monitoring

Questions or needs?	Strategies, methods, resources
<ul style="list-style-type: none"> How to monitor resource benefits from native vegetation restoration such as fish habitat, flood plain connectivity, wildlife habitat, geomorphology? How to monitor social and economic benefits of restoration? 	<ul style="list-style-type: none"> Contact Stillwater Sciences – Glen Leverich, they have experience with some of this through their work on the Gila River