

Agency/Organization: University of Nevada Las Vegas

Project Name: Autogenic Restoration at the BCCE

Project Number: 2023-UNLV-2395A

Reporting Period: April 1, 2024 – June 30, 2024

Project Contact Name and Information:

Scott R. Abella
Associate Professor, Restoration Ecology
School of Life Sciences
University of Nevada Las Vegas
4505 S. Maryland Parkway
Las Vegas, Nevada 89154-4004
scott.abella@unlv.edu

QUESTION 1: What did you accomplish during this reporting period? How did these accomplishments help you reach the goal of your project? If relevant, what indicators or benchmarks were used to determine your progress?

During the reporting period, we completed and submitted D01, the Work Plan, and D02, the Data Management Plan. We completed M03, identifying experimental sites and developing treatments. At project sites, we completed pre-treatment plant inventories and treatment installation of the main field experiment (Experiment 1: Surface structural manipulations: pit-mound microtopography and vertical mulch) by April 28, meeting M04.

With the installation of Experiment 1, as planned, we will begin assessments of these treatments in late summer-early fall (September 20-October 4, 2024). During this same period, we plan to implement the propose sub-experiments (Experiment 2 and Experiment 3 in the submitted Work Plan).

Meeting the required deliverables and milestones, we are preparing our annual project data 2024 for submission before September 17, 2024 and post-treatment inventories.

QUESTION 2: What, if any, problems were encountered? Briefly describe those problems and the manner in which they were dealt.

There are no problems identified presently. We were able to narrow down the potential treatments to implement after reviewing materials available at the BCCE project site.

QUESTION 3: What, if any, proposed activities were not completed? Briefly describe those activities, the reasons they were not completed and your plans for carrying them out.

Sub-experiments listed below are pending as some on-site materials were not yet available.

Experiment 2: Potential propagule delivery vectors (timing of implementation contingent on seed production by shrubs)

Experiment 3: Assisted natural regeneration (contingent on seedling availability).

Seeds are currently maturing and are anticipated to contribute to seed banks and litter during the summer period. Experiment 3 is dependent on seedling emergence. After summer rains and the onset of fall rains, if these occur, we will survey for seedlings to include in this sub-experiment.

QUESTION 4: What is the calculated percent of work completed?

At this early stage of the project, we have completed an estimated 15% of the project, mainly entailing identifying the project sites and treatments, and implementing the main proposed field experiment.

**QUESTION 5: Do you foresee any upcoming problems with future project activities?
If so, how do you propose to overcome those problems?**

We do not perceive problems.

QUESTION 6: Is there anything else you want to tell the DCP about this project?

We remain in contact with Clark County personnel regarding the project on an ongoing basis and do not have further information to share at the present time.

QUESTION 7: What was produced during the reporting period?

During this project period, the main item produced was a database file containing project meta data and the pre-treatment survey information, in addition to implementing the treatments (M04).