



December 28, 2023

DESERT CONSERVATION PROGRAM PROJECT COMPLETION SUMMARY
Rare Plant Propagation Research
2019-USGS-1990A

The work for the above referenced project has been completed. Below is a summary of project related information.

The purpose of the above referenced project was:

The purpose of this project is to increase the knowledge of many southern Nevada rare and protected plant species including the Las Vegas bearpoppy (*Arctomecon californica*), white-margined penstemon (*Penstemon albomarginatus*), Blue Diamond cholla (*Cylindropuntia multigeniculata*), three-corner milkvetch (*Astragalus geyeri* var. *triquestrus*), and sticky buckwheat (*Eriogonum viscidulum*). The plants' seed ecology and the feasibility of establishing a nursery stock are to be investigated, to help assist conservation practitioners to re-introduce them into protected habitats and help understand the habitat needs of these species.

The major accomplishments or findings of this project include:

This project resulted in the publication of a status-of-knowledge article on *Arctomecon californica* discussing the propagation and reintroduction information for conservation related to the species. A research article was published on experimental propagation of *Cylindropuntia multigeniculata* that determined optimal plant rooting and establishment through experimental trials. Propagation trials were done on *E. viscidulum* with successful propagations occurring in a greenhouse, followed by successful seed collections from greenhouse-grown stock. Pollination experiments were completed that identify the mating system of *E. viscidulum* (able to self-pollinate) and *P. albomarginatus* (requires a pollinator for outcrossing).

For more information about this project and/or for other Project Reports or Symposium Reports, please visit our [website](#).

If you have any questions about this project, please contact DCP Project Manager Stefanie



Ferrazzano at (702) 455-6386.



DESERT CONSERVATION PROGRAM PROJECT COMPLETION NOTICE

General Project Information

Project Category	Conservation
Compliance Category	9d-Research/Inventory/Monitoring
Project Level	Level 3
Project Title	Rare Plant Propagation Research (w/809)
Project Number	2019-USGS-1990A
Contractor	US Geological Survey (USGS) -Western Eco Rsrch Ctr
DCP Project Manager	Stefanie Ferrazzano
DCP Contract Manager	Esther Criss
Contract Start Date	03/01/2020
Purchase Order Number	4800009739-009
Contract End Date	12/16/2023

Financial Breakdown

Funding Source	S10 19-21
Original Contract Amount	\$137,943.00
Funds not used in Contract	\$0
Final Payout Amount	\$137,943.00

Performance Information

Total Number of Change Requests	6
Total Number of Deliverables	29
Number of Deliverables Accepted	29
Number of Deliverables Rejected	0
Number of Delinquent Deliverables	6
Total Number of Milestones	19
Number of Delinquent Milestones	4
Number of Milestones Met on Time	15
Total Number of Invoices Submitted	13
Number of Rejected Invoices	0