

# Using genetic data to inform Seeds of Success collecting

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# Seeds of Success across the Colorado Plateau

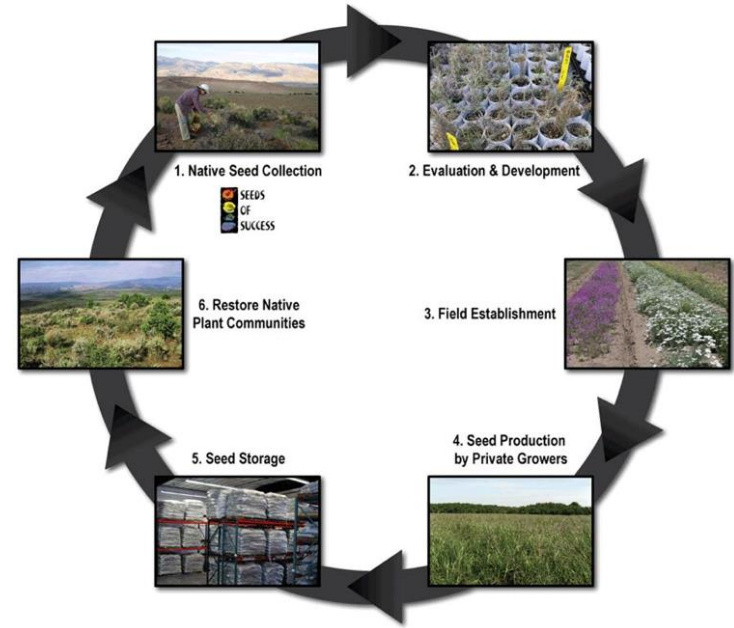


Mission: to collect wildland native seed for research, development, germplasm conservation, and ecosystem restoration.



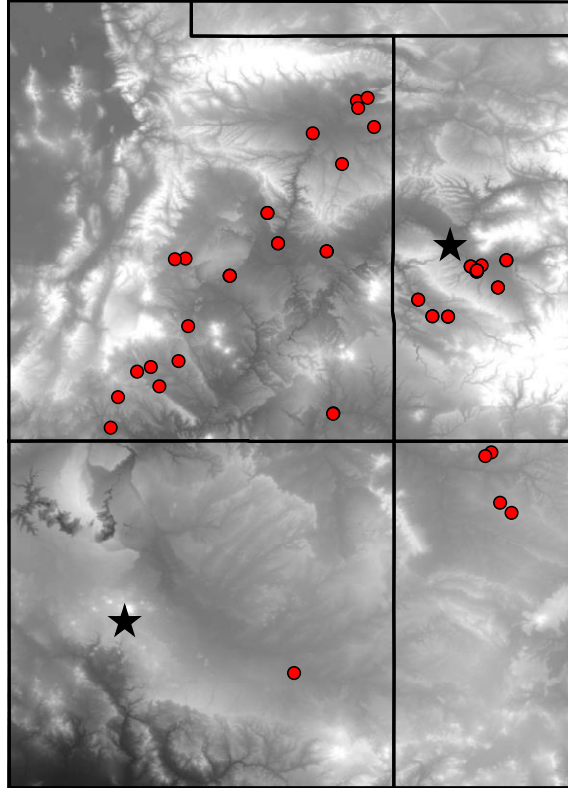
Directly supports BLM's Native Plant Materials Development Program

Mission: to increase the quality and quantity of native plant materials available for restoring and supporting resilient ecosystems.

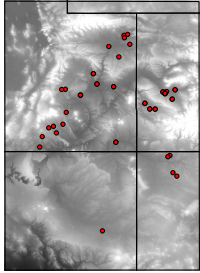


# Informing SOS collecting: What resources do we have?

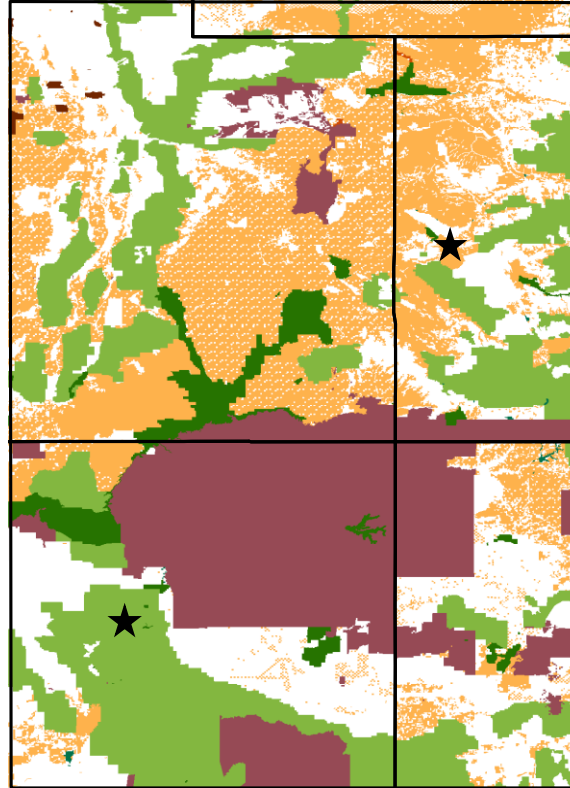
Galleta grass (*Pleuraphis jamesii*) SOS collections across the CO Plateau



# Informing SOS collecting: What resources do we have?

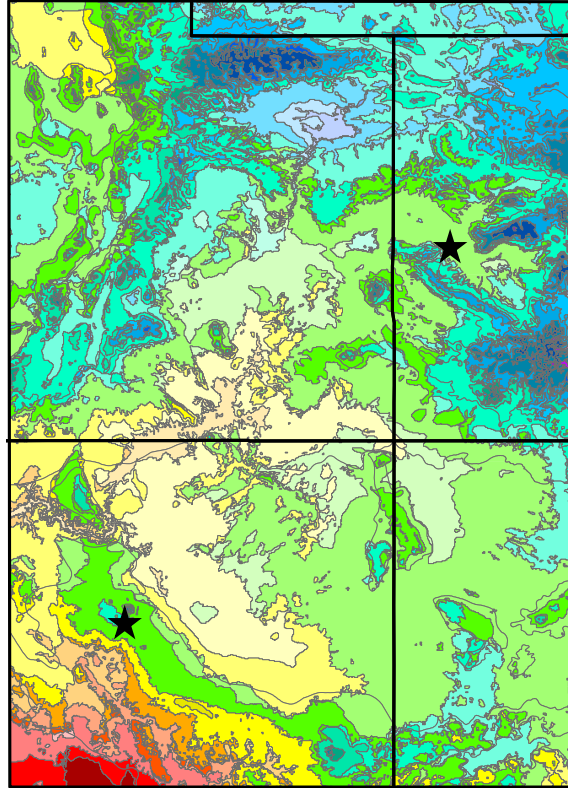
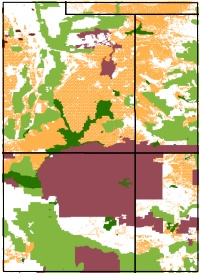
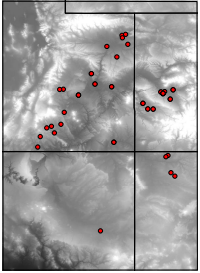


Maps of land ownership



# Supporting SOS collecting: What resources do we have?

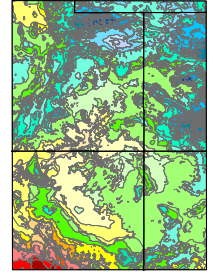
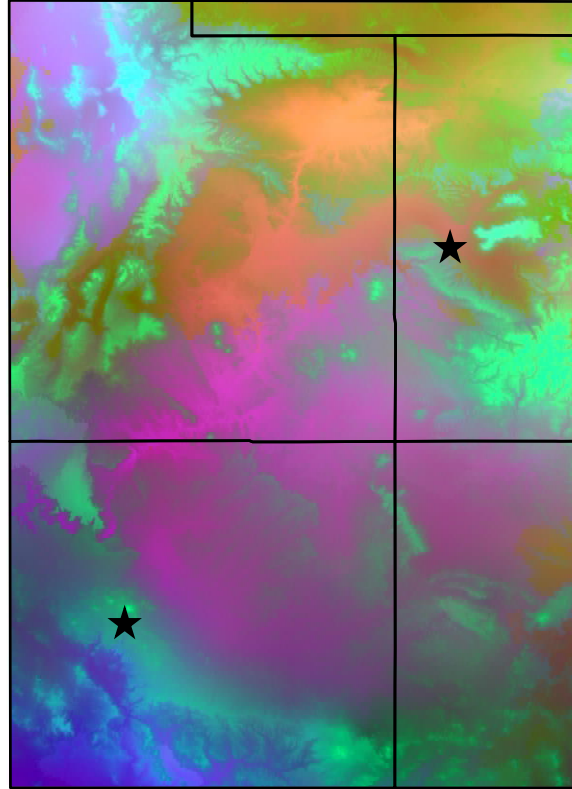
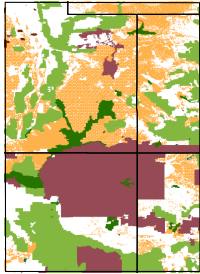
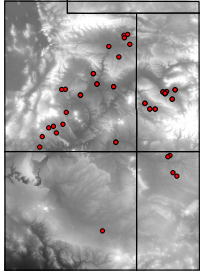
Provisional seed zones based on climate



Based on an aridity index  
and winter minimum  
temperature

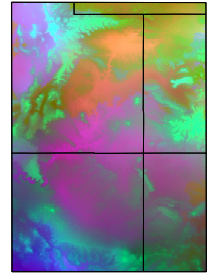
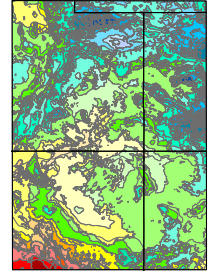
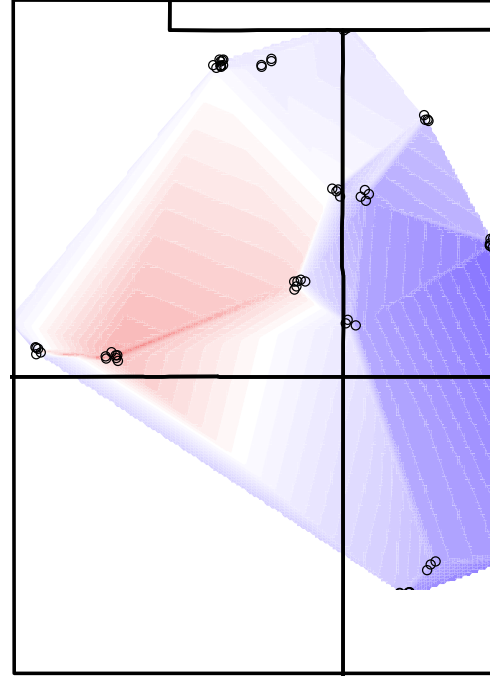
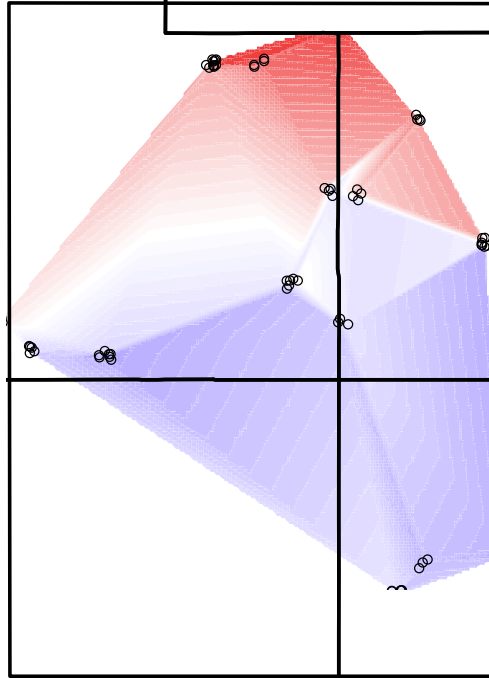
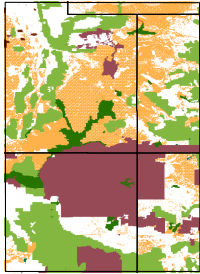
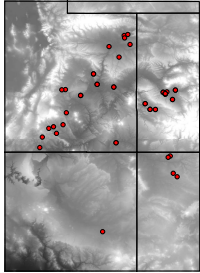
# Supporting SOS collecting: What resources do we have?

Other measures of environmental space



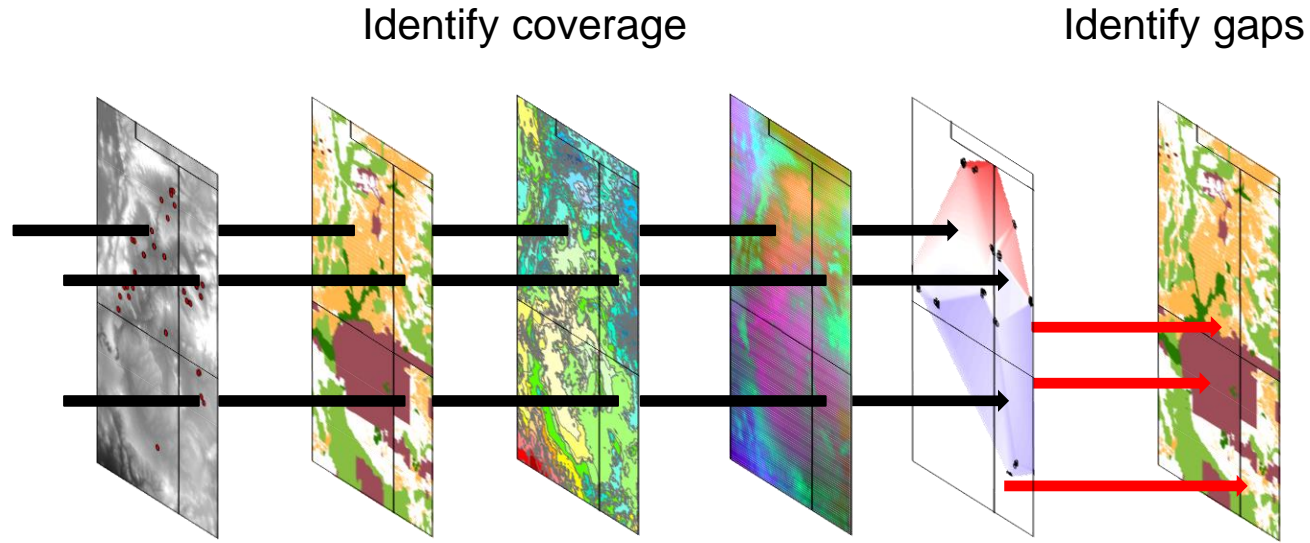
# Supporting SOS collecting: What resources do we have?

Genetic variation across space





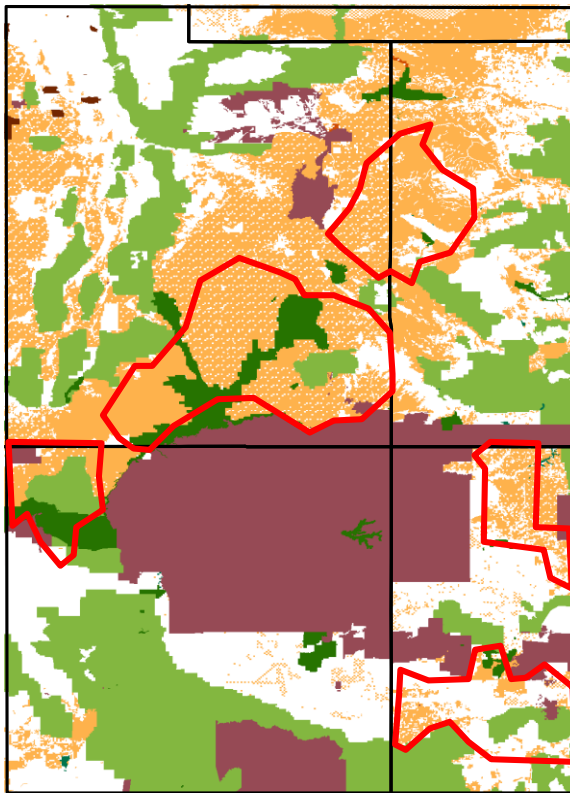
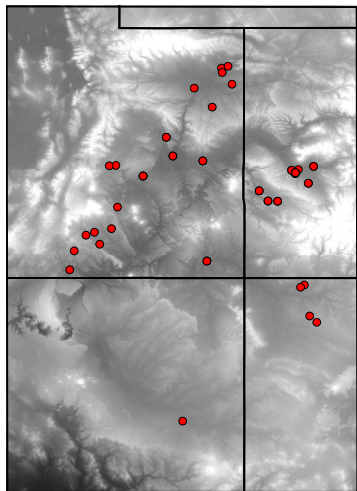
# Supporting SOS collecting: What resources do we have?





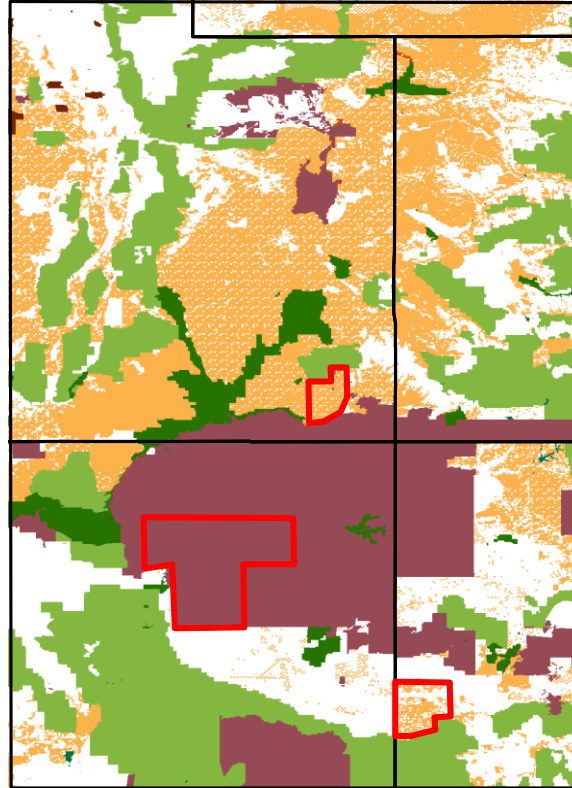
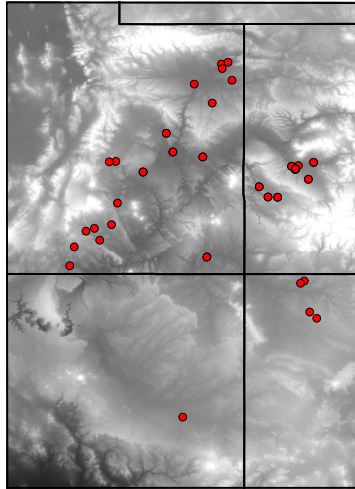
# Informing SOS collecting

Underrepresented areas in SOS collections



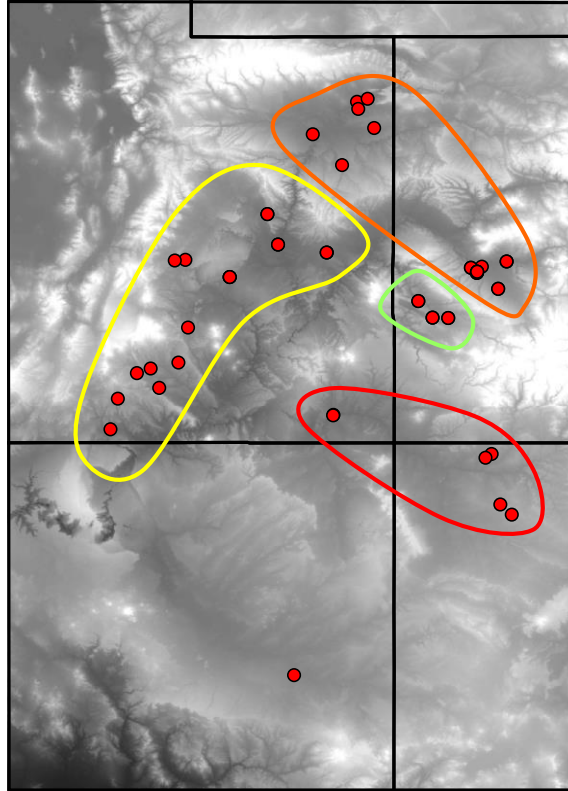
# Informing SOS collecting

Genetically underrepresented areas for future collection



# Informing research & materials development

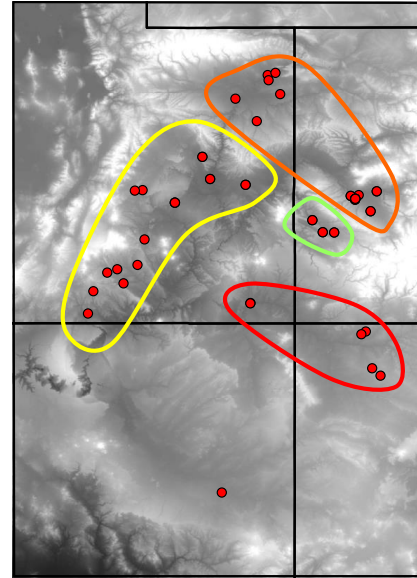
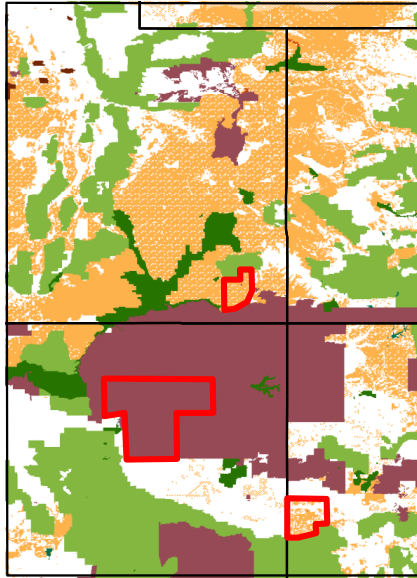
What populations should research and materials development utilize?



# Seeds of Success across the Colorado Plateau



**Mission:** to collect wildland native seed for research, development, germplasm conservation, and ecosystem restoration.



# Acknowledgements

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Southwest Biological Science Center

