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Artemisia tridentata subsp. vaseyana

Contemporary (1990-2010) empirical seed zones for Artemisia tridentata subspecies vaseyana. Seed zones are based on two traits: survival (show to be associated with cold hardiness) and flower phenology. Seed zones have been divided into regions (Colorado Plateau, Great Basin, Northern Rocky Mountains and Southern Rocky Mountains) to account for possible genetic differences and operational management. A species distribution model (SDM) of A. tridentata subsp. vaseyana using similar methods to Still and Richardson (2015) has been used as a constraint (i.e., seed zones are mapped within the contemporary [1990-2010] SDM). Level III Ecoregions have been overlaid for reference.

References:

Richardson, B. A., & Chaney, L. (2018). Climate-based seed transfer of a widespread shrub: population shifts, restoration strategies, and the trailing edge. Ecological Applications, 44, 367– 10. http://doi.org/10.1002/eap.1804

Chaney, L., Richardson, B. A., & Germino, M. J. (2017). Climate drives adaptive genetic responses associated with survival in big sagebrush (Artemisia tridentata). Evolutionary Applications, 10(4), 313–322. http://doi.org/10.1111/eva.12440

Richardson, B. A., Chaney, L., Shaw, N. L., & Still, S. M. (2017). Will phenotypic plasticity affecting flowering phenology keep pace with climate change? Global Change Biology, 23(6), 2499–2508. http://doi.org/10.1111/gcb.13532

Still, S. M., & Richardson, B. A. (2015). Projections of Contemporary and Future Climate Niche for Wyoming Big Sagebrush (Artemisia tridentata subsp. wyomingensis): A Guide for Restoration. Natural Areas Journal, 35(1), 30–43. http://doi.org/10.3375/043.035.0106