

Recent research publications related to wild horses and burros Western USA-centric, since approximately October 2022

The **\$BLMS** symbol before a citation indicates BLM-funded and -supported work. Some non-BLM-supported publications are listed here because they may relate to BLM WHB management. For a list of papers from 2021 to 2022, see the [fall 2022 research update to the advisory board](#).

WHB In General, and Human Dimensions

Taylor et al. 2023. [Early dispersal of domestic horses into the Great Plains and northern Rockies](#). *Science* 379:1316-1323.

Carlisle, C, and D Adams. 2022. [Enhancing stakeholder engagement to achieve the sustainable management of free-roaming equids](#). *Human Wildlife Interactions* 16(2):297-307.

Hennig, JD, CJ Duchardt, S Esmaeili, SD Fuhlendorf, JL Beck, TI Francisco, and JD Scasta. 2023. [A crossroads in the rearview mirror: the state of United States feral equid management in 2023](#). *BioScience*.

Frey, N, JL Beck, L Singletary, L Snell, D Scasta, and J Hadfield. 2024. [Western US residents' knowledge of wild free-roaming horses and their management on federal public lands](#). *Rangeland Ecology and Management* 92:12-23.

Frey, SN. 2022. [It's time for the next step](#). *Human Wildlife Interactions* 16(2):175-176.

Frey, SN, JL Beck, JD Scasta, and L Singletary. 2022. [U.S. public opinion of reproductive control options for free-roaming horses on western public lands](#). *Human Wildlife Interactions* 16(2):217-232.

Wood, HS, SN Frey, and TA Messmer. 2022. [Stakeholder knowledge and perceptions of free-roaming equids and their management at a western U.S. land-grant university](#). *Human Wildlife Interactions* 16(2):280-296.

Snell, LK. 2022. [Partnerships create success for the Devil's Garden wild horses](#). *Human Wildlife Interactions* 16(2):317-323.

\$BLMS Jenkins, D. 2022. [New research and wild horse and burro management](#). *Human Wildlife Interactions* 16(2):324-328.

Sedinger, JS, and R. Stetson. 2022. [Healthy Western Lands: a proposal for healthy rangelands, wildlife, and free-roaming horses and burros](#). *Human Wildlife Interactions* 16(2):329-336.

Bleich, VC. 2022. [Feral horses, feral asses, and professional politicians: broodings from a beleaguered biologist](#). *Human Wildlife Interactions* 16(2):337-342.

Fertility Control

\$BLMS Baker, DL, BE McCann, JG Powers, NL Galloway, JE Bruemmer, MA Thompson, and TM Nett. 2023. [Reimmunization intervals for application of GnRH immunocontraceptive vaccine \(GonaCon-Equine\) in free-roaming horses \(*Equus ferus caballus*\) using syringe darts](#). *Theriogenology Wild* 2023:100061.

\$BLMS Thompson, MA, BE McCann, RB Simmons, and T Rhen. 2022. [Major locus on ECA18 influences effectiveness of GonaCon vaccine in feral horses](#). *Journal of Reproductive Immunology* 155:103779.

Bechert, US, JW Turner, DL Baker, DC Eckery, JE Bruemmer, CC Lyman, TM Prado, SRB King, and MA Fraker. 2022. [Fertility control options for management of free-roaming horse populations](#). *Human Wildlife Interactions* 16(2):179-216.

Sas-Jaworsky, A, and JD Scasta. 2022. [Wyoming's Wild Horse Ranch: history and description of a socio-ecological experiment](#). Human Wildlife Interactions 16(2):308-316.

Schulman, ML, JD Grewar, T Wilson, M Hou, and N Hayes. 2023. [Establishing feasibility for porcine zona pellucida immunocontraception in a large population of free-roaming horses inhabiting the Virginia Range of Nevada, USA](#). Journal of Equine Veterinary Science 125: 124742.

Surveys and Telemetry

\$BLM\$ Hennig, JD and KA Schoenecker. 2023. [Comparing methods to estimate feral burro abundance](#). Wildlife Society Bulletin (2023):e1495.

Genetics

Bozlak et al. 2023. [Refining the evolutionary tree of the horse Y chromosome](#). Scientific Reports 13: 8954.

Demography & Behavior

\$BLM\$ Folt, B, KA Schoenecker, LS Ekernas, DR Edmunds, and M Hannon. 2023. [PopEquus: A predictive modeling tool to support management decisions for free-roaming horse populations](#). Ecosphere 2023;14:e4632.

\$BLM\$ King, SRB, MJ Cole, C Barton, and KA Schoenecker. 2023. [Proximate factors affecting mortality and maternal abandonment of young free-roaming feral horse foals](#). Journal of Veterinary Behavior 66:1-10.

\$BLM\$ Iacono, P. 2023. [Mountain lion \(*Puma concolor*\) and feral horse \(*Equus ferus*\) interactions: examining the influence of a non-native ungulate on predator behavior in a semi-arid environment](#). Utah State University masters thesis.

Mesler, JI, and AS Jones. 2022. [Feral burros as a mountain lion prey item in west central Arizona](#). The Southwestern Naturalist 66(4):338-342.

Smith, JB, AR Greenleaf, and JR Oakleaf. 2023. [Kill rates on native ungulates by Mexican gray wolves in Arizona and New Mexico](#). Journal of Wildlife Management 87(8):22491.

Lundgren, EJ et al. 2022. [A novel trophic cascade between cougars and feral donkeys shapes desert wetlands](#). Journal of Animal Ecology 91:2348-2357.

\$BLM\$ Folt, B, KA Schoenecker, and LS Ekernas. 2022. [Multi-objective modeling as a decision-support tool for free-roaming horse management](#). Human Wildlife Interactions 16(2):233-250.

Scasta, JD, E. Thacker, JD Hennig, and K Hoopes. 2022. [Dehydration and mortality of feral horses and burros: a systematic review of reported deaths](#). Human Wildlife Interactions 16(2):251-261.

Rödel, HG, B Ibler, K Ozogány, and V Kerekes. 2023. [Age-specific effects of density and weather on body condition and birth rates in a large herbivore, the Przewalski's horse](#). Oecologia (2023). <https://doi.org/10.1007/s00442-023-05477-9>

Ecology, and Climate

\$BLM\$ Hennig, JD, JD Scasta, AC Pratt, CP Wanner, and JL Beck. 2022. [Habitat selection and space use overlap between feral horses, pronghorn, and greater sage-grouse in cold arid steppe](#). Journal of Wildlife Management 87(1):e22329.

\$BLM\$ McNew LB, DK Dahlgren, and JL Beck. 2023. [Rangeland wildlife ecology and conservation](#). Springer. Cham, Switzerland.

\$BLM\$ Schoenecker, KA, S Esmaili, and SRB King. 2023. [Seasonal resource selection and movement ecology of free-ranging horses in the western United States](#). Journal of Wildlife Management 87(2):e22341.

\$BLM\$ Esmaili S, SRB King, and KA Schoenecker. 2023. [Browsers or grazers? New insights into feral burro diet using a non-invasive sampling and plant DNA metabarcoding approach](#). Animals 2023, 13(16), 2683.

Karish, T, GW Roemer, DK Delaney, CD Reddell, and JW Cain III. 2023. [Habitat selection and water dependency of feral burros in the Mojave desert](#), California, USA. Journal of Wildlife Management (2023): e22429.

Morra, BM, WC Richardson, TK Stringham, and BW Sullivan. 2023. [Carbon stocks and total belowground carbon flux respond to weather and grazing in semiarid montane meadows](#). Ecosystems. doi.org/10.1007/s10021-023-00843-3

McGinn, MR, SL Petersen, MS Chelak, RT Larsen, L Apphin, BR MacMilan, D. Eggert, and TA Messmer. 2022. [Nonnative ungulate impacts on greater sage-grouse late brood-rearing habitat in the Great Basin, USA](#). Human Wildlife Interactions 16(2):262-279.