

Curriculum Vitae: Marc R. Horney, Ph.D., CRM

EDUCATION:

1. **University of Nebraska, Ph.D. 1992-1999** *Major: Ruminant Nutrition (Animal Science) /Rangeland Ecology (Agronomy)*
2. **Oregon State University, M.S. 1990-1992** *Major: Animal Science, Minor: Range Science*
3. **California Polytechnic State University, B.S. 1985-1990** *Major: Animal Science, Minors: Philosophy & Speech Communication*

CERTIFICATION OR LICENSING:

California **Certified Rangeland Manager** (Issued by Board of Forestry, through California-Pacific Islands Chapter of the Society for Range Management). License #83. Since 2001.

PROFESSIONAL EXPERIENCE:

- **Professor, Rangeland Ecology & Management** *California Polytechnic State University, San Luis Obispo, 9/08 to Present*
- **Grazing Animal Nutrition/Natural Resource/Rangeland Management Consultant, California,** 8/03-Present.
- **Regional Rangeland Management Specialist, USDA-NRCS, 11/08 to 8/09.**
- **Rangeland Management Specialist, USDA-NRCS Klamath Basin Watershed Team, 1/05 to 11/08.**
- **Director, California Range Camp. Society for Range Management. 2006-2019.** (Volunteer position)
- **Lecturer/Researcher, College of Agriculture, California State University, Chico, 8/03 – 12/05.**
- **Natural Resource Management/Range Livestock Advisor, University of California Cooperative Extension, 6/99-8/03.**
- **Agriculture/4-H Youth Development Agent, Colorado State University Coope Extension, 8/96-5/99.**
- **Research Assistant, University of Nebraska, Lincoln, 7/92-7/96, and Oregon State University, 9/90-5/92.**

PROFESSIONAL SOCIETY MEMBERSHIP:

- **American Society of Animal Science**
- **Society for Range Management**
 - Range Science & Education Council (past chair)
 - Targeted Grazing Committee
 - Geospatial Science & Technology Committee (past chair)
- **The Wildlife Society, Western Section, California Central Coast Chapter**
 - College & University Wildlife Education Working Group
 - Drone Working Group
 - Rangeland Wildlife Working Group
 - Spatial Ecology & Telemetry Working Group
 - Student Development Working Group
- **International Bio-Logging Society**

PUBLICATIONS:

Peer reviewed manuscripts

- Hurley, S.P., M.R. Horney, and A.G. Drake. 2019. **Using Hyperspectral Imagery to Detect Water Stress in a Vineyard**. Proceedings of SPIE, Autonomous Air and Ground Sensing Systems for Agricultural Optimization and Phenotyping IV. Volume 1108-07.
- Bailey, D.W., J.C. Moseley, R.E. Estell, A.F. Cibils, M.R. Horney, J.R. Hendrickson, J.W. Walker, K.L. Launchbaugh, and E.A. Burritt. 2019. **Synthesis Paper: Targeted Livestock Grazing: Prescription for Healthy Rangelands**. Rangeland Ecology & Management. In Press. Available online, 9 August 2019.
- Larsen, R., Striby, K., Horney, M. 2015. **Fourteen years of forage monitoring on the California Central Coast shows tremendous variation**. In: Standiford, Richard B.; Purcell, Kathryn L., tech. cords. Proceedings of the seventh California oak symposium: managing oak woodlands in a dynamic world. Gen. Tech. Rep. PSW-GTR-251. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station: 273-281.
<https://www.fs.usda.gov/treearch/pubs/49996>
- Larsen, RE., Horney, MR., Macon, D. 2014. **Update of the 2014 Drought on California Rangelands**. Rangelands. Vol.36(5), pp.52-58.
- Horney, M.R. 2013. **Database Application for a Youth Market Livestock Production Education Program**. Journal of Extension. 51(1). Published online at <http://www.joe.org/joe/2013february/tt3.php>.
- Horney, M.R. and M. Spiess. 2013. **Photo-Guided Tracing: A Low-Cost Method for Monitoring Targeted Plant Species**. Journal of Extension. 51(5). Published online at <http://www.joe.org/joe/2013october/tt5.php>.
- Horney, M.R., R.B. Standiford, D. McCreary, J. Tecklin and R. Richards. **Effects of Wildfire on Blue Oak in the Northern Sacramento Valley**. Proceedings of the fifth symposium on oak woodlands: oaks in California's changing landscape. 2001 October 22-25; San Diego, CA. Gen Tech. Rep. PSW-GTR-184. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture. pp. 261-267.
- Horney, M.R., T. DelCurto, M.M. Stamm, R.K. Bailey, and S.D. Brandyberry. 1996. **Early-vegetative meadow hay versus alfalfa hay as a supplement for beef cattle consuming low-quality forages**. J. Anim. Sci. 74:1959-1966.
- Stamm, M.M., T. DelCurto, M.R. Horney, S.D. Brandyberry, and R.K. Bailey. 1993. **Influence of alkaloid concentration of tall fescue straw on the nutrition, physiology and subsequent performance of beef steers**. J. Anim. Sci. 72:1068-1075.

Abstracts

- Horney, M.R., D.C. Adams, W.H. Schacht, S.S. Waller, T.J. Klopfenstein, and R.T. Clark. 1996. **Grazing subirrigated meadow as an alternative to traditional haying in the Nebraska Sandhills**. Proc. Soc. Range Manage. Ann. Mtg., Wichita, KS.
- Barton, R.K., T. DelCurto, S.D. Brandyberry, M.M. Stamm, and M.R. Horney. 1991. **Physical modification and(or) supplementation strategies to improve the nutritive value of tall fescue straw for beef cattle**. Proc. West Sec. Am. Soc. Anim. Sci. 43:544-547.

Other publications

- Henderson, S.L., M.R. Horney, and S.P. Doyle. 2005. **Comparing California native perennial grass species' root and shoot growth**. Grasslands.15(4):3-5.
- Horney, Marc R., J. Schmierer. 2002. **"Dirty Dozen" Noxious Weeds List**. Colusa-Glenn-Tehama Cooperative Weed Management Area
- Horney, M.R., D.C. Adams, W. Schacht, S.S. Waller, and T. Klopfenstein. 1996. **Grazing: An alternative to haying sub-irrigated meadows in the Nebraska Sandhills**. Nebraska Beef Cattle

Report (MP 66-A). pp. 6-7.

Horney, M.R. 1995. **The volatile fatty acids**. The Pygmy Goat World. Volume 2, Issue 5. pp. 10-11.

Horney, M.R. 1994. **Goat nutrition**. Pygmy Goat Memo. Volume XIX, No.4. Winter 1994/95. pp. 27-30.

Horney, M.R., D.C. Adams, S.S. Waller, L. Moser, T. Klopfenstein, and J. Lamb. 1994. **Grazing as an alternative to haying sub-irrigated meadows in the Nebraska Sandhills**. Gudmundsen Sandhills Laboratory Research Report: 1991-1994. (WCC 94-01) pp. 23-25.

Horney, M.R., D.C. Adams, P. Jacoby, J. Goeke. 1994. **Aerial photography survey of the Gudmundsen Sandhills Laboratory**. Gudmundsen Sandhills Laboratory Research Report: 1991-1994. (WCC 94-01) pp. 53-54.

Horney, M.R. 1992. **Early-vegetative meadow hay versus alfalfa hay as a supplement for beef cattle consuming low-quality forages**. Masters Thesis. Oregon State University.

Posters

Horney, M.R. 2018. **Emerging tools for rangeland monitoring practices: ESRI's ArcGIS Online and Collector field data collection app**. Society for Range Management Annual Conference. Reno, NV.

Horney, M.R. and M. Spiess. 2008. **Mapping Arundo donax in a Northern California watershed**. Society for Range Management International Conference, Louisville, KY.

Klementowski, K. and M.R. Horney. 2003. **Tri-County Noxious Weed GIS Archive Project**. California Department of Food & Agriculture, Weed Management Areas Annual Conference.

Horney, M.R. 2002. **Remote Sensing Applications for Detecting Noxious Weed Populations**. UC Cooperative Extension "Geospatial Technologies in Agriculture" Symposium. Kearney Agriculture Center, Parlier, CA.

Horney, M.R., D.C. Adams, S.S. Waller, L. Moser, T. Klopfenstein, and J. Lamb. 1995. **Feed hay or graze instead? Grazing as an alternative to haying in the Nebraska Sandhills - Beef cattle performance**. Society for Range Management International Conference, Phoenix, AZ.

Horney, M.R., D.C. Adams, P. Jacoby, J. Goeke. 1994. **Aerial photography survey of the Gudmundsen Sandhills Laboratory**. Society for Range Management Northern Plains regional meeting, Hot Springs, SD.