

Dr. Douglas Cram
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College of Agriculture, Consumer and Environmental Sciences
New Mexico State University
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EDUCATION

Ph.D.	Range Science	New Mexico State University
M.S.	Forest Science	Oklahoma State University
B.S.	Wildlife Science	New Mexico State University

PROFESSIONAL EXPERIENCE

New Mexico State University

2019 – <i>present</i>	Associate Professor / Extension Forestry and Fire Specialist Extension Animal Sciences and Natural Resources Department
2013 – 2019	Assistant Professor / Extension Forestry and Fire Specialist Extension Animal Sciences and Natural Resources Department
2009 – 2011	College Assistant Professor Extension Animal Sciences and Natural Resources Department
2006 – 2010	Graduate Student Range Science Department
Advisor:	Dr. Terrell T. “Red” Baker
Dissertation:	<i>Ecological and Management Implications of Increased Conifer Density in Forests of the Southwest: From Piñon-Juniper to Mixed Conifer</i>
2002 – 2009	Research Specialist Cooperative Extension Service

University of Hawaii at Mānoa

2012	Assistant Professor / Extension Wildland Fire Specialist Natural Resources and Environmental Management Department
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PEER-REVIEWED RESEARCH PUBLICATIONS

- 1) Almalki, Y., Fernald, A., Ochoa, C., Cibils, A., Faist, A., Cram, D., & Steiner, R. 2023. Understory Vegetation Response to Thinning Pinyon-Juniper Woodlands. *Rangeland Ecology & Management*, 88, 152–158.
- 2) Cram, D. 2022. The West Wasn't Burning - A History of Prescribed Fire Use in Western North America. In John Weir and Derek Scasta (Ed.), *Global Applications of Prescribed Fire* (pp. 320). CRC Press Publishing.
- 3) Stricklan, D., Cibils, A. F., Saud, P., Steiner, R., McIntosh, M., Ganguli, A., Cram, D., Faist, A. 2022. Dispersal Patterns of One-Seed Juniper Seeds Contained in Mammal Scats and Bird Pellets. *Forests* 13(10), 1693.
- 4) Cansler, A., Hood, S., Varner, M., Mantgem, P., ... Cram, D., et al. 2022. Fire and Tree Mortality Database (FTM), 2nd Edition. *Forest Service Research Data Archive*. <https://doi.org/10.2737/RDS-2020-0001-2>.
- 5) Atalar, F., Beyazoglu, O., Fernald, A., Burney, O., VanLeewen, D., Cram, D. 2021. A case study of runoff and sediment yield in areas subjected to different forest thinning operations in a northern New Mexico forest. *Journal of Soil and Water Conservation* 76(4), 293-302.

- 6) Cansler, C. A., Hood, S., Varner, J., van Mantgem, P., ... Cram, D., et al. 2020. The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. *Scientific data*, 7(1), 194.
- 7) Cansler, A., Hood, S., Varner, M., Mantgem, P., ... Cram, D., et al. 2020. Fire and Tree Mortality Database (FTM), 1st Edition. *Forest Service Research Data Archive*. <https://doi.org/10.2737/RDS-2020-0001>.
- 8) Stricklan, D., Saud, P., Cibils, A., Steiner, R., Cram, D., Young, K., Faist, A. 2020. Germination of one-seed juniper seeds distributed by different frugivore groups. *Rangeland Ecology & Management* 73(3) 433–440.
- 9) Saud, P., Lynch, T., Cram, D., Guldin, J. 2019. Annual basal area growth model with multiplicative climate modifier fitted to longitudinal data for shortleaf pine. *Forestry: An International Journal of Forest Research*, 92(5), 538–553.
- 10) Singh, P., Saud, P., Mainali, K., Cram, D., Thapa, A., Chhetri, N., Poudyal, L., Jiang, Z. 2018. Habitat correlates of Himalayan musk deer (*Moschus leucogaster*). *Ecology and Evolution*, 9(1), 4–18.
- 11) Saud, P., Cram, D., Smallidge, S., Baker, T., 2018. Coarse woody debris following silviculture treatments in Southwest mixed-conifer forest. *Forests*, 9(6), 347.
- 12) Cram, D., Saud, P., Baker, T. 2017. Structure and composition of a dry mixed-conifer forest in absence of contemporary treatments, Southwest, USA. *Forests*, 8(9), 349.
- 13) Cram, D., Hatch, S. Tyler, C, Ochoa. 2016. Use of distributed temperature sensing technology to characterize fire behavior. *Sensors* 16(10), 1712.
- 14) Masters, R., Montague, W., Cram, D. 2016. Northern bobwhite autumn and winter food habits in restored pine-bluestem habitats. *Wildlife Society Bulletin* 40(2):300–309.
- 15) Cram, D., Baker, T., Fernald, A., Cibils, A., VanLeeuwen, D. 2015. Fuel and vegetation trends after fire in treated versus untreated forests. *Forest Science* 61:753–762.
- 16) Wood, K., Scalon, R., Cram, D. 2012. Occurrence of sprouts and seedlings of pinyon pines, alligator junipers, and gray oaks following harvest of fuelwood and prescribed burning. *Southwestern Naturalist* 57:51–57.
- 17) Cram, D., Masters, R., Guthery, F., Engle, D., Montague, W. 2009. Usable space versus food quantity in bobwhite management. *Quail VI*:146–159.
- 18) Masters, R., Guthery, F., Walsh, F., Cram, D., Montague, W. 2009. Usable space versus habitat quality in forest management for bobwhites. 2009. *Quail VI*:184–192.
- 19) Cabrera, V., Stavast, L., Baker, T., Wood, M., Cram, D., Flynn, R., Ulery, A. 2009. Soil and runoff response to dairy manure application on New Mexico rangeland. *Agriculture, Ecosystems and Environment* 131:255–262.
- 20) Mason, J., Baker, T., Cram, D., Boren, J., Fernald, A., VanLeeuwen, D. 2009. Mechanical fuel treatment effects on midstory and understory vegetation in a south central New Mexico dry mixed conifer forest. *Forest Ecology and Management* 257:868–875.
- 21) Cram, D., Baker, T., Fernald, A., Madrid, A., Rummer, B. 2007. Mechanical thinning impacts on runoff, infiltration, and sediment yield following fuel reduction treatments in a Southwestern dry mixed conifer forest. *Journal of Soil and Water Conservation* 62:359–366.
- 22) Cram, D., Baker, T., Fernald, A., Allison C., Madrid, A., Rummer, B. 2007. Reducing the impacts of mechanical thinning in a southwestern forest. Technical Transfer Briefing, *Journal of Soil and Water Conservation* 62(5):121A.
- 23) Mason, G., Baker, T., Cram, D., Boren, J., Fernald, A., VanLeeuwen, D. 2007. Mechanical fuel treatment effects on fuel loads and indices of crown fire potential in a south central New Mexico dry mixed conifer forest. *Forest Ecology and Management* 251:195–204.
- 24) Cram, D., Baker, T., Boren, J. 2006. Wildland fire effects in silviculturally treated vs. untreated stands of New Mexico and Arizona. Research Paper RMRS-RP-55. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 28 p.

- 25) Stavast, L., Baker, T., Ulery, A., Flynn, R., Wood, M., Cram, D. 2005. New Mexico blue grama rangeland response to dairy manure application. *Rangeland Ecology and Management* 58:423–429.
- 26) Cram, D., Masters, R., Guthery, F., Engle, D., Montague, W. 2002. Northern bobwhite population and habitat response to pine-grassland restoration. *Journal of Wildlife Management* 66:1031–1039.
- 27) Masters, R., Wilson, C., Cram, D., Bukenhofer, G., Lochmiller, R. 2002. Influence of ecosystem restoration for red-cockaded woodpeckers on breeding bird and small mammal communities. Pages 73–90 in Ford, W., K. Russell, and C. Moorman, editors. Proceedings: The Role of Fire for Nongame Wildlife Management and Community Restoration: Traditional Uses and New Directions; 2000 September 15, Nashville, Tennessee. General Technical Report NE-GTR-288. Newtown Square, Pennsylvania, U.S. Department of Agriculture, Forest Service, Northeastern Research Station.
- 28) Masters, R., Wilson, C., Cram, D., Bukenhofer, G. 2001. Reintroduction of fire benefits breeding birds in pine-grasslands (Arkansas). *Ecological Restoration* 19:265–266.
- 29) Gallegos, A., Gonzales, G., Bennett, K., Pratt, L., Cram, D. 1997. A spatially-dynamic preliminary risk assessment of the American peregrine falcon at the Los Alamos National Laboratory. Los Alamos National Laboratory Report LA-13321-MS.

PEER-REVIEWED EXTENSION PUBLICATIONS

- 1) Fogarty, D., Baldwin, C., Bauman P., Cram D., Goodman L., Thompson A., Treadwell M., Twidwell, D. 2023. Reducing Woody Encroachment in Grasslands: A Pocket Guide for Planning & Design. Great Plains Grasslands Extension Partnership, GPGEP-PB-01.
- 2) Baldwin, C., Weir, J., Treadwell, M., Bauman, P., Cram, D., Bammerlin, L., Twidwell, D. 2022. Benefits of Rangeland Burning. Great Plains Fire Science Exchange.
- 3) Twidwell, D., Fogarty, D., and Weir, J. with contributions from Baldwin, C., Bauman, P., Cram, D. S., Goodman, L., Limb, R., Scasta, D., Treadwell, M. 2021. Reducing Woody Encroachment in Grasslands - A Guide for Risk and Vulnerability. Oklahoma State University E-1054.
- 4) Spackman, C., Smallidge, S., Cram, D., Ward, M. 2022. Annotated Reference for Rapid Assessment Methodology (RAM). Range Improvement Task Force Report 88.
- 5) Weir, J., Baldwin, C., Bauman, P., Cram, D., Fawcett, J., Kreye, J., Scasta, D., Twidwell, D., Treadwell, M. 2020. Prescribed Fire: Understanding Laws, Liability, and Risk. Oklahoma State University NREM-2905.
- 6) Cram, D., Ashcroft, N., Young, K. 2021. Pinyon-juniper Regulations in New Mexico: 10+ Year Policy Review. Linebery Policy Center Report LPC-4.
- 7) Cram, D., Ashcroft, N., Ward, M., Young, K., Smallidge, S. 2018. Proceedings: Range Improvement Task Force 2016 Water Symposium. New Mexico State University Range Improvement Task Force Report 87.
- 8) Weir, J., Russell, M., Cram, D., Baldwin, C., Bauman, P., Scasta, J. 2018. Wildfire: Preparing the Ranch and Farm. Oklahoma Cooperative Extension Service Guide E-1048.
- 9) Cram, D., Ward, M., Ashcroft, N., Bailey, D. 2018. Strategies for Livestock Management in Riparian Areas in New Mexico. New Mexico State University Cooperative Extension Service Guide B-119 (Revision).
- 10) Young, K., Cram, D. 2018. Control Cholla Cactus. New Mexico State University Cooperative Extension Service Guide B-804 (Revision).
- 11) Cram, D., Sabie, R., Smallidge, S., Ashcroft, N. 2017. Assessment of Post Fire Debris-Flow Hazards, La Jara Watershed, North-Central New Mexico. New Mexico State University Range Improvement Task Force Report 86.
- 12) Weir, J., Coffey, R., Russell, M., Baldwin, C., Twidwell, D., Cram, D., Bauman, P., Fawcett, J. 2017. Prescribed Burning: Spotfires and Escapes. Oklahoma Cooperative Extension Service Guide NREM-2903.

- 13) Ashcroft, N., Cram, D., Smallidge, S., Owens, L. 2017. An Introduction to NEPA - National Environmental Policy Act of 1969. New Mexico State University Cooperative Extension Service.
- 14) Smallidge, S., Halbritter, H., Baker, T., Ashcroft, N., Cram, D., Fowler, J. 2015. Elk and Livestock in New Mexico: Issues and Conflicts on Private and Public Lands. RITF Report 82. New Mexico State University Cooperative Extension Service.
- 15) Cram, D., Trauernicht, C. 2015. Post-Fire Vegetation and Soil Monitoring in Hawai'i. RM-19. University of Hawai'i - College of Tropical Agriculture and Human Resources.
- 16) Ashcroft, N., Smallidge, S., Cram, D. 2014. Scientific Review of December 14, 2010, U.S. Fish and Wildlife Service Proposal to List the Dunes Sagebrush Lizard as Endangered under the Endangered Species Act. New Mexico State University, Cooperative Extension Service, Range Improvement Task Force Report 84.
- 17) Cram, D. 2014. Scientific Review of Post-Fire Treatments. After Wildfire: A Guide for New Mexico Communities. <http://afterwildfirenm.org/>
- 18) Stevens, B., Friday, J.B., Cram, D., Trauernicht, C. 2014. Protecting Tree Plantations from Fire in Hawaii. University of Hawaii Cooperative Extension Publication, RM-18.
- 19) Cram, D. 2013. Edited and/or wrote 40 Frequently Asked Questions (*i.e.*, Fact Sheets). eXtension - Prescribed Fire Community of Practice. www.extension.org/prescribed_fire
- 20) Cram, D., Baker, T. 2012. Startup Guide for Forestry and Wood Products Cooperatives in New Mexico. New Mexico Cooperative Extension Service Publication, Guide Z-117.
- 21) Hawkes, J., Cram, D. 2012. Regulatory Steps Necessary to 'Cooperate' in New Mexico. New Mexico Cooperative Extension Service Publication, Guide Z-118.
- 22) Hawkes, J., Ely, C., Hadley, B., Cram, D. 2010. Economic Analysis of Equipment Used for Small-Diameter Timber Removal. New Mexico Cooperative Extension Service Publication, Guide Z-116.