

JAN 30, 2024: PRESCRIBED GRAZING SYMPOSIUM RESOURCES LIST

Purpose

On January 30, 2024, a panel of rangeland managers and experts joined the Society for Range Management (SRM) to conduct a panel symposium on prescribed/targeted grazing for the purposes of fuels management and other co-benefits on rangelands and forests in the western U.S. and beyond.

This resource list is intended to supplement that symposium and provide a selection of resources on prescribed grazing for the purposes of vegetation management for graziers and those seeking the services of graziers. This list is not exhaustive and is not intended to replace professional consultation or guidance. The information provided in this resources list were selected by the panelists and does not necessarily reflect the views of the Board of Forestry and Fire Protection, Range Management Advisory Committee, or Society for Range Management.

For questions on the content of this document, contact Board of Forestry and Fire Protection staff at 916-653-5800 or Kristina.Wolf@bof.ca.gov.

Symposium Title & Abstract

Putting Prescribed/Targeted Grazing to Work on Rangelands and Forests at the Landscape-Level in the Western U.S. and Beyond

Join us in this symposium to explore management of prescribed grazing in range and forestlands in the Western US. Experts and practitioners from private industry, state agencies, and academic research institutions from across California, Idaho, Minnesota, and Canada will delve into the history, purpose, and goals of prescribed grazing for fuels management, emphasizing the synergy between this and other fuels reduction methods and implications for managing diverse landscapes. The symposium will be presented in four parts: 1) History of the Range Management Advisory Committee and California State Programs including Prescribed Herbivory, 2) Scientific Foundations and Applications of Prescribed Grazing, 3) In Practice Integration of Prescribed Grazing into Management Projects for Fuel Reduction, and 4) Prescribed Herbivory Beyond California. Sessions will be followed by a moderated panel discussion with the audience to encourage dialogue and exchange of ideas among speakers and attendees, providing a platform for participants to delve deeper into specific topics. Topics of discussion will include application of prescribed grazing for the reduction of fuel hazards, wildfire mitigation, community resilience, and multiple ecosystem benefits, as well as trade-offs, policy and permitting hurdles, constraints, and lessons learned. New and trending topics to be covered will include collaborative planning and land management by state-certified foresters and rangeland professionals to enhance landscape-level management, with applications to private and public lands and entities; new and upcoming tools to assist graziers and agency personnel in creating, implementing, and monitoring Grazing Agreements and Grazing Management Plans; and matching graziers with grazing lands, writing applications for grazing proposals, and navigating permitting. Educational and technical resources will be provided to the audience, including where to find information, useful publications and guides, and training videos and webinars. Participants will gain practical insights into this vegetation management tool and contribute to the collective knowledge driving sustainable land management practices.

GRAZING PANEL SPEAKER AND PANELIST CONTACTS

| Name, Title | Affiliation(s) | Contact Information | Current Location |
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OPEN ACCESS BOX DRIVE

This [publicly-accessible drive](#)¹ contains copies of the documents contained in this resources list to ensure long-term availability of the documents.

- [Cronan 7 Year Grazing Report \(Brenneman 2022\)](#) – report on the results of monitoring impacts from seven years of managed grazing with sheep at Cronan Ranch.
- [Procedure for Certification of Targeted Graziers \(SRM 2021\)](#)
- [Targeted Grazing Need to Know for Graziers and Hiring Graziers \(SRM 2019\)](#)
- [Targeted Grazing: A Primer for Consumers \(Macon 2018\)](#)
- [Grazing for Fuel Reduction and Resilience in Forested Ecosystems \(Wolf 2022\)](#)
- [Synthesis paper: targeted livestock grazing: prescription for healthy rangelands \(Bailey et al. 2019\)](#)
- [Prescribed Herbivory for Vegetation Treatment Projects \(Burrows et al. 2015\)](#)
- [The effectiveness of using targeted grazing for vegetation management: a meta-analysis \(Marchetto et al. 2021\)](#)
- [Effects of prescribed grazing by goats on non-native invasive shrubs and native plant species in a mixed-hardwood forest \(Rathfon et al. 2021\)](#)
- [Targeted grazing: a natural approach to vegetation management and landscape enhancement \(Launchbaugh and Walker 2006; ASI\)](#)
- [Recommended Monitoring Protocols for Targeted Grazing Projects \(Michalsky and Neville 2021\)](#)
- [California Vegetation Treatment Program \(CalVTP\) Project Specific Analysis \(PSA\) Template](#)
- [Project-Specific California Environmental Quality Act \(CEQA\) Findings and Statement of Overriding Considerations Template](#)
- [CalVTP Project ID 2023-21 Project-Specific Analysis](#) – a CalVTP project including prescribed herbivory as a covered activity for vegetation management.
- [CalVTP Project ID 2023-21 Attachment F: Prescribed Herbivory Best Management Practices \(BMPs\)](#)
- [US Forest Service and Bureau of Land Management Grazing Administration Requirements and Processes](#)
- [CAL FIRE Grants Infographic](#)
- [Compatibility of livestock grazing and recreational use on coastal California public lands: importance, interactions, and management solutions \(Wolf et al. 2017\)](#)
- [Grazing for Change, 3rd Edition: Using Managed Livestock Grazing to Reduce Fire Fuel Loads \(UCCE 2021\)](#)
- [Folder: Speaker Symposium Files \(PDFs of shared Powerpoint Presentations\)](#)

Webpages are linked throughout the body of this resources list. External links to the documents listed above are also provided throughout the remaining sections of this resources list to link users to the original content and online locations; long-term viability of external weblinks is not assured by the authors of this resources list.

¹ <https://calfire.box.com/s/vb9fxjvki4t3iroubssdesy9cifxtqci>

OPEN SOURCE MAPPING RESOURCES

- **Google My Maps**² – Mapping with online interface: Easy to operate application that provides very good satellite visuals for on-the-ground orientation. It's free and allows you to drop pins and easily send directions to colleagues.
- **QGIS Project**³ – A Free and Open Source GIS program with many advanced ArcGIS capabilities (compatible with .kmz files, shapefiles). QGIS provides a continuously growing number of capabilities provided by core functions and plugins. You can visualize, manage, edit, analyze data, and compose printable maps.

SUPPLEMENTAL RESOURCES

BECOMING A TARGETED GRAZIER

- *Targeted Grazing Certification Process*

The Targeted Grazing Committee has developed a Targeted Grazer Certification© for targeted graziers through the Society for Range Management (SRM). If you have questions about certification please contact the Targeted Grazing Committee at targetedgrazing@gmail.com.

- **Webpage:** <https://rangelands.org/targetedgraziercertification/>⁴
- [SRM Procedure for Certification of Targeted Graziers \(2021\)](#)⁵
- [SRM Targeted Grazing Need to Know for Graziers and Hiring Graziers](#)⁶

- *California Wool Growers Association Targeted Grazing Clearing House*

The CWGA provides information and resources to producers and targeted graziers.

- **Webpage:**
 - <https://californiawoolgrowers.org/>
 - Targeted Grazing Clearinghouse currently in development (check back for updates)
<https://californiawoolgrowers.org/targeted-grazing/targeted-grazing-clearing-house/>
- To post a targeted grazing job opportunity contact the CWGA office at 916-444-8122 or info@woolgrowers.org.

FINDING A TARGETED GRAZIER

- *National: Goats on the Go*

Resource for graziers to advertise their services, and for individuals and organizations to find grazing services, along with information on prescribed grazing with goats and sheep.

- **Webpage:** <https://www.goatsonthego.com/affiliate-directory>

² <https://www.google.com/maps/d/>

³ <https://qgis.org/en/site/>

⁴ <https://rangelands.org/targetedgraziercertification/>

⁵ <https://drive.google.com/file/d/1XAY4eTpPOxWoPs7nyMwEwpiCb283SsNG/view>

⁶ https://drive.google.com/file/d/1CuysXp0k5ofuL4x1XshX3VCT-Fltvtd-/view?usp=drive_link

- *California (and Beyond): Match.Graze*
Resource for graziers to advertise their services, and for individuals and organizations to find grazing services.
 - **Webpage:** <https://matchgraze.com/>
- *California Wool Growers Association Grazer Directory*
This site provides information on grazing operators in California, including contact information, counties and areas serviced, and services offered by goat and/or sheep graziers in California.
 - **Webpage:** <https://californiawoolgrowers.org/targeted-grazing/directory/>

TARGETED GRAZING RESEARCH AND SYNTHESSES

- *Rangelands Gateway*
The Rangelands Gateway is a resource for range managers providing information (e.g., articles, reports, publications, tools, videos) on rangelands worldwide, range management, and a variety of range resource topics including resource management, careers and education, multi-species grazing, livestock-wildlife interactions, communication and partnership development, virtual fencing, decision support frameworks, monitoring and much more.
 - **Webpage:** <https://rangelandsgateway.org/>
 - Written by Austin Rutherford from the University of Arizona, [Cultural Methods: Targeted Grazing](#)⁷ provides information on targeted grazing, which has been used in urban-wildland interfaces to help protect cities from the threat of wildfire.
- *2022 Research Synthesis: Grazing for Fuel Reduction and Resilience in Forested Ecosystems*
Brief review on the use of targeted grazing for fuels management in forests: [Grazing for Fuel Reduction and Resilience in Forested Ecosystems: Research Synthesis](#)⁸ (Wolf 2022, California Fire Science Consortium)
 - **Citation:** Wolf, K. 2022. Grazing for Fuel Reduction and Resilience in Forested Ecosystems: Research Synthesis. Prepared for the California Fire Science Consortium, Eureka.
- *2021 Grazing for Change: Using Managed Livestock Grazing to Reduce Fire Fuel Loads*
This [Third Edition publication](#)⁹ reviews the basics of managed grazing for fuels reduction, grazing leases, grazing objectives, multi-species grazing, supplementary vegetation management tools, and other aspects of prescribed grazing to manage fire fuel loads.
 - **Citation:** Schohr, T. (ed.), 2021. Grazing for Change: Using Managed Livestock Grazing to Reduce Fire Fuel Loads. University of California Cooperative Extension.

⁷ <https://rangelandsgateway.org/topics/maintaining-improving-rangelands/targeted-grazing>

⁸ <https://www.cafirescience.org/research-publications-source/category/grazingsynthesis>

⁹ <https://ucanr.edu/sites/forestry/files/357319.pdf>

- **2021 Targeted Grazing Review: *How Effective is Targeted Grazing?***
 This [University of Minnesota 2021 research brief](#)¹⁰ reviews the [Marchetto et al. 2021](#)¹¹ meta-analysis on the use of targeted grazing for vegetation management.
 - **Citation:** Marchetto, K.M., Wolf, T.M., & Larkin, D.J., 2021. The effectiveness of using targeted grazing for vegetation management: a meta-analysis. *Restoration Ecology*, 29(5), e13422.
- **2021 Primary Research Article: *Targeted Grazing with Goats in a Mixed-Hardwood Forest***
 This 2021 primary research article by [Rathfon et al.](#)¹² describes the application of targeted grazing with goats in a mixed hardwood forest, and implications for management, including integrations of other vegetation treatment methods (e.g., mechanical methods, chemical treatments)
 - **Citation:** Rathfon, R.A., Greenler, S.M. and Jenkins, M.A., 2021. Effects of prescribed grazing by goats on non-native invasive shrubs and native plant species in a mixed-hardwood forest. *Restoration Ecology*, 29(4), p.e13361.
- **2019 Research Synthesis: *Targeted livestock grazing: Prescription for healthy rangelands***
 This [2019 Synthesis Paper](#)¹³ (Bailey et al. 2019) discusses the differences between targeted grazing and traditional grazing for livestock production.
 - **Citation:** Bailey, D.W., Mosley, J.C., Estell, R.E., Cibils, A.F., Horney, M., Hendrickson, J.R., Walker, J.W., Launchbaugh, K.L. and Burritt, E.A., 2019. Synthesis paper: targeted livestock grazing: prescription for healthy rangelands. *Rangeland Ecology & Management*, 72(6), pp.865-877.
- **2018: *Targeted Grazing: A Primer for Consumers***
 Written by former Livestock and Natural Resource Advisor for Placer, Nevada, Sutter, Yuba Counties Dan Macon, [Targeted Grazing: A Primer for Consumers](#)¹⁴ (2018) is designed to help landowners, homeowners, nonprofit staff, and government agencies understand the basics of targeted grazing.
 - **Citation:** Macon, D. 2018. Targeted Grazing: A Primer for Consumers. Publication Number 31-1002. University of California Cooperative Extension, Berkeley.
- **2015 White Paper: *Prescribed Herbivory for Vegetation Treatment Projects***
 The 2015 White Paper (Burrows et al. 2015) provides supporting information for the use of prescribed herbivory as a treatment activity for fuels management: [Prescribed Herbivory for Vegetation Treatment Projects](#).¹⁵
 - **Citation:** Burrows, B., Bush, B.C., & Conway, K., 2015. Prepared by the Range Management Advisory Committee for the Board of Forestry and Fire Protection, State of California, Sacramento.

¹⁰ <https://twin-cities.umn.edu/news-events/how-effective-targeted-livestock-grazing>

¹¹ <https://onlinelibrary.wiley.com/doi/full/10.1111/rec.13422>

¹² <https://onlinelibrary.wiley.com/doi/full/10.1111/rec.13361>

¹³ <https://www.sciencedirect.com/science/article/pii/S1550742419300399>

¹⁴ <https://ucanr.edu/sites/Livestock/files/279408.pdf>

¹⁵ <https://bof.fire.ca.gov/media/7208/white-paper.pdf>

- The Range Management Advisory Committee is also in the process of revising this report to include:
 - a systematic review of new research and data since 2015, and additional efforts to include research and case studies prior to 2015 as relevant to fill data gaps;
 - applications of prescribed grazing in combination with other integrated fuels treatments;
 - multi-species grazing and targeted grazing with cattle, sheep, goats, and other livestock; and
 - beyond rangelands: wildland-urban interface (WUI), forests, highly heterogeneous landscapes, and along roadsides.
- **Webpage:** The [Range Management Advisory Committee webpage](#)¹⁶ includes a “Workshops” section at the bottom of the webpage with links to materials provided at past workshops throughout California on prescribed grazing for fuels management and other co-benefits, including video recordings, presentations, and publications.

APPLICATIONS OF TARGETED GRAZING – PLANNING FORMS, TEMPLATES, AND GUIDANCE DOCUMENTS

- *Targeted Grazing: A Natural Approach to Vegetation Management and Landscape Enhancement*

This American Sheep Industry [2006 Targeted Grazing Handbook](#)¹⁷ (Launchbaugh and Walker 2006) provides detailed information on the planning, implementation, and applications of targeted grazing.

- **Citation:** Launchbaugh, K., & Walker, J., 2006. Targeted grazing—a new paradigm for livestock management. Targeted grazing: a natural approach to vegetation management and landscape enhancement. American Sheep Industry Association, Centennial, CO.
- **COMING SOON: *State Lands Grazing and Land Management sub-committee (Range Management Advisory Committee) – Grazing Agreements on State Lands and Beyond***
 Templates for grazing agreements and a Grazing Management Plan, along with accompanying guidance booklet, are in the final stages of development with an anticipated release of late 2024. See the [Range Management Advisory Committee webpage](#)¹⁴ News Box, Meeting Materials, and Workshops sections for announcements about these soon-to-be-released materials.
 - These documents will include information on developing a grazing agreement (aka grazing license, grazing contract) and associated Grazing Management Plan; applications and renewals, funding sources and needs, permitting and environmental regulations, matching grazing resources and needs; determining goals and outcomes, planning processes and adaptive management, and constraints, logistics and feasibility; and tips and guidance on navigating the planning and implementation of a prescribed grazing project.
- **COMING SOON: *Technical Guide to planning for Fuels Reduction to Reduce Wildfire Risk in California***
 Concurrently with the development of an updated 2024 white paper on prescribed herbivory (see [2015 White Paper: Prescribed Herbivory for Vegetation Treatment Projects](#)), a **technical guide to planning for Fuels Reduction to Reduce Wildfire Risk in California** is also in development, focusing

¹⁶ <https://bof.fire.ca.gov/board-committees/range-management-advisory-committee/>

¹⁷ <https://www.webpages.uidaho.edu/rx-grazing/handbook.htm>

on fuels reduction in the initial published version, with additional versions to come in the future addressing other goals and objectives for prescribed grazing in California (e.g., wildlife habitat e.g., management of vernal pools; invasive species management). See the [Range Management Advisory Committee webpage](#)¹⁴ News Box, Meeting Materials, and Workshops for announcements about these soon-to-be-released materials.

- Other ongoing national efforts include technical guides for prescribed herbivory/targeted grazing currently in development by Targeted Grazing Committees of the [Society for Range Management](#)¹⁸ and the [American Sheep Industry Association](#).¹⁹

MANAGING SOCIO-POLITICAL ASPECTS OF PRESCRIBED GRAZING

- *Livestock-Wildlife Interactions and Targeted Grazing*

This [Society for Range Management Targeted Grazing Committee workshop](#)²⁰ focuses on how livestock and wildlife interact, and how to apply targeted grazing to accomplish wildlife habitat objectives. Facilitated by Dr. John Hendrickson, ARS Northern Great Plains Research Laboratory.

- *Livestock-Recreation interactions*

This [review paper](#)²¹ (Wolf et al. 2017) addresses trends in, and outcomes of, livestock grazing and recreation on public lands, reviews common livestock-recreation interactions, and provides recommendations for the management of livestock on public lands where recreation is a primary factor.

- **Citation:** Wolf, K.M., Baldwin, R.A. and Barry, S., 2017. Compatibility of livestock grazing and recreational use on coastal California public lands: importance, interactions, and management solutions. *Rangeland Ecology & Management*, 70(2), pp.192-201.

WEBINARS AND INTERACTIVE TRAINING RESOURCES

- *Fire Science Consortium*

The [Fire Science Consortium Webpage](#)²² provides open access to fire science information and resources and funding announcements for scientists, fire practitioners and decision makers.

- *California Fire Science Consortium*

The [California Fire Science Consortium](#)²³ is a network of scientists and managers committed to accelerating awareness, understanding, and adoption of wildland fire science information by federal, tribal, state, local, and private stakeholders within ecologically similar regions.

- *Range Management Advisory Committee (RMAC)*

The Range Management Advisory Committee is a statutorily-created advisory body to the Board of Forestry & Fire Protection, and is the only range-related policy body in California. The [RMAC](#)

¹⁸ <https://rangelands.org/>

¹⁹ <https://www.sheepusa.org/>

²⁰ <https://youtu.be/mrLA6H3MLvo>

²¹ <https://doi.org/10.1016/j.rama.2016.08.008>

²² <https://www.firescience.gov/>

²³ <https://www.cafirescience.org/>

[Webpage](#)²⁴ includes information on prescribed herbivory, including links to workshop recordings, presentations, and research.

- *Grazing for Fire Prevention*

This [University of California Cooperative Extension Webpage](#)²⁵ provides resources from the for learning about grazing for fire prevention, including video links and information on primary research and synthesis papers, fencing, leases and agreements, and technical assistance.

- *Range Monitoring Training Module*

This module recommends monitoring protocols that land managers and municipalities can use to assess targeted grazing projects, and helps guide the use of targeted grazing to enhance the success of outcomes and to minimize or eliminate any negative consequences: [Recommended Monitoring Protocols for Targeted Grazing Projects](#) (western Canada).²⁶

- *Multi-Species Grazing to Control Sericea and Brush*

In this [webinar](#)²⁷ Dr. Steve Hart from Langston University with Oklahoma State University Cooperative Extension discusses multi-species grazing to control *Sericea* and brush.

PERMITTING AND PROGRAMS

- *California Vegetation Treatment Program (CalVTP) Environmental Impact Report*

The California Vegetation Treatment Program (CalVTP), developed by the Board of Forestry and Fire Protection, is a critical component of the state's multi-faceted strategy to address California's wildfire crisis. The CalVTP includes the use of prescribed burning, mechanical treatments, manual treatments, herbicide application, and prescribed herbivory as tools to reduce hazardous vegetation around communities in the Wildland-Urban Interface (WUI), to construct fuel breaks (shaded or non-shaded), and to promote ecological restoration. The CalVTP Program Environmental Impact Report (EIR) provides a powerful California Environmental Quality Act (CEQA) compliance tool to expedite the implementation of wildfire resilience projects.

- CalVTP Homepage and StoryMap **Webpage:** <https://bof.fire.ca.gov/projects-and-programs/calvtp-homepage-and-storymap/>²⁸
- Project Specific Analysis (PSA) – required environmental documentation: [PSA Template](#)²⁹
- [Project-Specific CEQA Findings and Statement of Overriding Considerations Template](#)³⁰
- **CalVTP Project Example including Prescribed Herbivory: South Coast Herbivory Project (CalVTP Project ID 2023-21):**
 - [CalVTP Project ID 2023-21 Project-Specific Analysis](#)³¹ (the CEQA document)

²⁴ <https://bof.fire.ca.gov/board-committees/range-management-advisory-committee/>

²⁵ https://ucanr.edu/sites/Rangelands/Grazing_for_Fire_Prevention/

²⁶ https://www.edmonton.ca/sites/default/files/public-files/Targeted-Grazing-Monitoring-Module_2021.pdf?cb=1679540582

²⁷ <https://youtu.be/PuIAE6qCjjM>

²⁸ <https://bof.fire.ca.gov/projects-and-programs/calvtp-homepage-and-storymap/>

²⁹ <https://bof.fire.ca.gov/media/mkqp2as4/template-psa-checklist-508-compliant.dotx>

³⁰ https://bof.fire.ca.gov/media/tq5hlfwb/ceqa-template-findings_soc-508-compliant.dotx

³¹ https://bof.fire.ca.gov/media/unaj5tx5/final-sb-south-coast-herbivory-project-psa_9-12-23_signed.pdf

- Appendix F, Sample of Prescribed Herbivory BMPs in an approved CalVTP Project: [Attachment F Prescribed Herbivory BMPs 2023-21](#)³²
 - *Note:* all approved CalVTP PSAs and environmental documentation can be found on the [CalVTP Environmental Documentation webpage](#)³³
- *Bureau of Land Management (BLM)*
The [BLM's rangeland management program webpage](#)³⁴ includes information on grazing management on rangelands for several states, including California and Idaho.
- *U.S. Forest Service (USFS)*
The [USFS Permitted Livestock Grazing webpage](#) includes information on grazing management in forest service allotments and types of grazing permits provided by the U.S. Forest Service. Also see the [U.S. Forest Service and BLM Grazing Administration Requirements and Processes](#).³⁵

FUNDING SOURCES

- *CAL FIRE Grants*
CAL FIRE provides [grant opportunities](#)³⁶ to improve forest health and improve firefighting capacity throughout the State, including some eligibility for projects associated with prescribed herbivory:
 - [CAL FIRE Grants Programs Infographic](#)³⁷
 - [Wildfire Prevention Grants](#)³⁸ fund projects in and near fire threatened communities to increase the protection of people, structures, and communities
- *California Grants Portal*
Search for grant opportunities in the [California Grants Portal](#).³⁹

³² https://bof.fire.ca.gov/media/5zaeasby/attachment-f-prescribed-herbivory-bmps_2023-21.pdf

³³ <https://bof.fire.ca.gov/projects-and-programs/calvtp-homepage-and-storymap/environmental-documentation-for-approved-projects/>

³⁴ <https://www.blm.gov/programs/natural-resources/rangelands-and-grazing/rangeland-health>

³⁵ <https://www.fs.usda.gov/rangeland-management/documents/grazing/BLMGrazingAdministrationRequirementsProcesses201708.pdf>

³⁶ <https://www.fire.ca.gov/what-we-do/grants>

³⁷ <https://34c031f8-c9fd-4018-8c5a-4159cdff6b0d-cdn-endpoint.azureedge.net/-/media/calfire-website/what-we-do/grants/other/grants-process-infographic.pdf?rev=45a1dfbfa6294efe867024e9cc76a861&hash=7FDE14A3F4F3ECD1145746AEEC90A019>

³⁸ <https://www.fire.ca.gov/what-we-do/grants/wildfire-prevention-grants>

³⁹ <https://www.grants.ca.gov/>