

Society for Range Management

International Mountain Section

Winter/Spring 2023 FREE Range Management Webinar series,

in partnership with

Rangeland Research Institute, University of Alberta and

Montana State University

Questions? Contact Lisa at srm.ims11@gmail.com

Date and Time (MST)	Speaker	Title
Fri, Feb 3 Noon	Alexandra Harland,	Virtual fencing for grazing cattle: Lessons learned
to 1:00 pm	University of Alberta	(Roy Berg Kinsella Research Ranch, Alberta)
Wed, Feb 22	Tim DelCurto	Winter management of the beef cow herd
7:00 to 8:00 pm	Montana State University	(Red Bluff Research Ranch, Montana)
Fri, Mar 17	Sydney Lopes ,	Habitat selection by commercial beef cattle
Noon to 1:00 pm	University of Alberta	(Roy Berg Kinsella Research Ranch, Alberta)
Wed, Mar 22	Lisa Rew	Invasive species management
7:00 to 8:00 pm	Montana State University	(Red Bluff Research Ranch, Montana)
Fri, April 14 Noon to 1:00 pm	Anabel Dombro , University of Alberta	Control of invasive annual bromegrasses in the mixedgrass prairie of Alberta using the herbicide indaziflam (Mattheis Research Ranch and private ranches, Alberta)
Wed, April 26	Sam Wyffels	Technology in grazing systems management and research
7:00 to 8:00 pm	Montana State University	(Red Bluff Research Ranch, Montana)









Alex's project is located at the Roy Berg Kinsella Research Ranch

Friday, Feb 3, 2023 at 12:00 to 1:00 pm

Speaker: Alexandra Harland, University of Alberta

Alex grew up in Lac du Bonnet, a small farming town in Manitoba. She is doing an MSc. at the University of Alberta with Drs. Edward Bork and Carolyn Fitzsimmons where she is researching virtual fencing, an exciting new agriculture technology. Alex's education focuses on rangeland resources, beef production, and precision agriculture; She is passionate about being part of the future of agriculture.

Title: Virtual fencing for grazing cattle: Lessons learned

Conventional fencing systems (barbed wire, electric tape, electric wire, etc) for cattle grazing are expensive and labour intensive, even more so when used for rotational grazing. Virtual fencing is an emerging technology that may serve as an alternative to conventional fencing. This presentation describes a study conducted at the University of Alberta Roy Berg Kinsella Research Ranch that investigated whether virtual fencing could be implemented to manage a rotational grazing system. Through July and August 2022 one herd of Kinsella beef composite cattle (49 heifers and 2 bulls) was trained to use the virtual fence collars for 11 days and then rotationally grazed for 8 weeks. The virtual fence system uses GPS, audio warnings, and electrical shocks to control cattle movements in space and time. A virtual fencing system from the Norwegian company NoFence was used to create pasture boundaries, rotate and herd cattle, and control water access. The results of this study indicated that virtual fencing was successful at maintaining a rotational grazing system with respect to escape frequency (0.0018), herding and rotation, aggregate weight gain, and conception rate (92%).

Zoom link: https://ualberta-ca.zoom.us/j/97586062139?pwd=TFN4amtORGZIMWZpY1Brdi9oakcrUT09 Meeting ID: 975 8606 2139 Passcode: 555063



The cowherd at Red Bluff works all winter long. Through strategic grazing and nutritional management we seek to optimize cow performance in these conditions.

Wednesday, Feb 22, 2023 at 7:00 to 8:00 pm

Speaker: *Tim DelCurto*, Montana State University

Winter Management of the Beef Cow Herd

Zoom link: <u>https://us06web.zoom.us/j/84311473571?pwd=Tk52Skh2UmN1azFhQUJWV3hGVEVrdz09</u> Meeting ID: 843 1147 3571 Passcode: 622954



Sydney's project is located at the Roy Berg Kinsella Research Ranch

Fri, March 17, 2023 at 12:00 to 1:00 pm

Speaker: Sydney Lopes, University of Alberta

Title: Habitat selection by commercial beef cattle

Zoom link: https://ualberta-ca.zoom.us/j/96745089141?pwd=OC85UUJPUithVTYyalArYnIMZG5sQT09

Meeting ID: 967 4508 9141 Passcode: 557273



The invasive plant species at Red Bluff are typical of western Montana.

Wednesday, March 22, 2023 at 7:00 to 8:00 pm

Speaker: *Lisa Rew*, Montana State University

Invasive Species Management

Zoom link: https://us06web.zoom.us/j/81585251382?pwd=YlM30HVQNSs3QURnb1UvcGxGVDNyUT09

Meeting ID: 815 8525 1382 Passcode: 630787



Anabel's project is located at the Mattheis Research Ranch (pictured), Pinhorn Grazing Reserve and a private ranch in southern Alberta

Fri, April 14, 2023 at 12:00 to 1:00 pm

Speaker: Anabel Dombro, University of Alberta

Anabel is an MSc. student at the University of Alberta studying rangeland and wildlife with Dr. Edward Bork. She did a BSc. in sustainable agricultural systems at the University of Alberta.

Title: Control of invasive annual bromegrasses in the mixedgrass prairie of Alberta using the herbicide indaziflam

Annual bromegrasses are one of the most geographically widespread weeds that negatively impact the function of North American rangeland. They are undesirable forage plants, and can lower overall forage production, negatively affecting livestock production, mammal, and bird habitat. Records indicate that annual bromes are spreading northward into the northern Great Plains including southern Alberta, leading to concerns about the future status of Canada's mixedgrass prairie. Control of these species is of interest to land managers to improve or maintain rangeland function. Our field trials in southeast Alberta compared the effects of four rates of indaziflam (0, 37.5, 75, 150 g ai/ha) applied at two times (fall or spring) on annual-brome invaded grassland. The US recommended rate provided favorable control of annual bromegrass and levels of annual brome control were sufficient to elevate perennial grass biomass.

Zoom link: https://ualberta-ca.zoom.us/j/97586545471?pwd=VGNKMUg0eFVLK1ZabFlidnI5RIVEZz09 Meeting ID: 975 8654 5471 Passcode: 666778



The research at Red Bluff seeks to understand cattle grazing behavior to be able to improve rangeland management.

Wednesday, April 26, 2023 at 7:00 to 8:00 pm

Speaker: Sam Wyffels, Montana State University

Technology in Grazing Systems Management and Research

Zoom link: https://us06web.zoom.us/j/89868646042?pwd=S0Vrd3N5VDY4eW5WejNiR2FqbjJDUT09

Meeting ID: 898 6864 6042 Passcode: 517872