

# **Big Hole Watershed Committee**

Monthly Meeting Minutes September 20, 2023 – 7:00 pm at the Divide Grange Zoom option also provided

#### In Attendance

*In-person*: Pedro Marques, BHWC; Tana Nulph, BHWC; Ben LaPorte, BHWC; Tom Bowler, Resident; Betty Bowler, Resident; John Reinhardt, Rancher/BHWC; Jenna Dohman, MBMG; Jim Hagenbarth, Rancher/BHWC; Alta Miller, Resident/Big Hole Valley Historical Society; Roy Morris, GGTU/BHWC; Matt Lacey, USFS; Dina Huff, USFS; John Jackson, Beaverhead County Commission/BHWC; Jaime Trivette, USFS; Katelin Killoy, MFWP; Cass Kohler, MFWP; Kaitlin Boren, DNRC; JM Peck, Rancher; Liz Jones, Rancher/BHWC; Jacob Smith, Rancher; Cathy Scott, Rancher; Mary Marlin; Vanna Boccadori, MFWP; Craig Fellin, Big Hole Lodge; Diane Hutton, Resident/BHWC; and Randy Smith, Rancher/BHWC.

Zoom: Anthony Marmorella; Eric; and Brian Wheeler, BHRF/BHWC.

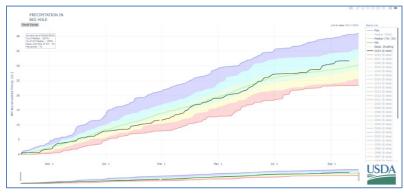
## **Meeting Minutes**

BHWC monthly meetings are held at the Divide Grange with a virtual (Zoom) option provided thanks to Southern Montana Telephone Company, who donated the internet service. Meeting minutes and recordings are available at <a href="https://bhwc.org/monthly-meetings/">https://bhwc.org/monthly-meetings/</a> (scroll down for meeting minutes archive). Printed copies are available during in-person meetings. Contact Tana Nulph, BHWC Associate Director, at <a href="https://tous.org/no.thly-meetings">tnulph@bhwc.org</a> or (406) 267-3421 to suggest additions or corrections.

## Reports

Streamflow and Snowpack Report – Kaitlin Boren, Department of Natural Resources and Conservation

- *Streamflows*: Streamflows in the Big Hole River watershed are at, or above average for this time of year depending on the section.
  - Section I (Saginaw Bridge on Skinner Meadows Road to North Fork Big Hole River mouth) is slightly below the median discharge values at 33.4 ft^3/s, but good cfs for this time of year!
  - Section II (North Fork Big Hole River mouth to Dickie Bridge) is flowing at 156.5 ft^3/s
  - Section III (Dickie Bridge to MFWP Maiden Rock FAS) is well above average, flowing at 373 ft^3/s
  - Section IV (MFWP Maiden Rock FAS to Tony Schoonen FAS) Melrose (406 ft^3/s) and Glen (427 ft^3/s) gages are above median flow rates.
  - Section V (Tony Schoonen FAS to confluence with the Jefferson River) is above median flows at 270 ft^3/s



- Outlook: The 8-14 day outlook predicts near normal temperatures and slightly above average precipitation.
- ENSO Alert System Status (from NOAA): El Nino Advisory
  - Synopsis: El Niño is anticipated to continue through the Northern Hemisphere winter (with greater than 95% chance through December 2023 -February 2024).

Director's Report – Pedro Marques, Executive Director

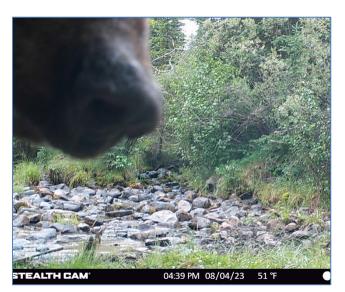
- Drought management no need this year!
- Wise River flow and project development
- WOTUS rule
- BLM water use on Seymour Creek
- Deep dives into seeding/fertilization
- For discussion
  - Fisheries crisis?
    - NY Times and PBS national news
    - Time for a counter narrative?
- Proposal to BoR or AtB where to store/enhance water storage

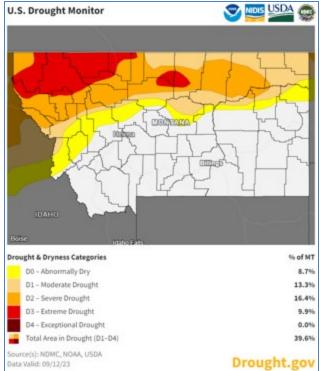
Steering Committee Report – Randy Smith, Chair; Jim Hagenbarth, Vice-Chair; and Roy Morris, Secretary

• The steering committee had nothing to report at this time.

# Communications and Wildlife Report – Tana Nulph, Associate Director

- Outreach and communications
  - YouTube BHWC channel has reached 1,000 subscribers!
  - Conservation Fund logos/swag
    - Biodegradable seed cards
    - Stickers
    - Magnets
    - Keychains
    - Next up: gear!





- Weekly drought updates
  - Text message AND email
  - To sign up for text messages, text DROUGHT to 26989.
- Wildlife
  - o 2023 range rider
    - July 1 September 30
    - Highlights:
      - Lion, wolves, and (curious) bears
      - No confirmed depredations so far
      - Journalist joining Chet last week of September
  - Livestock Loss Board: secured \$15,000
  - Submitted LOS for AtB, RCCP proposals
    - Heart dof the Rockies Initiative

# Restoration Report – Ben LaPorte, Program Manager

- Smith Sage Springs:
  - Fish shocking and Salvage with MFWP
  - Started construction on August 24 (4th week now)
- Browns Gulch
  - YEP installed more structures 54 total!
- Upper Oregon Creek/Anaconda Uplands
  - Gully check dam monitoring/survey
  - o MCC and Watershed Restoration Group
    - Weed spraying
      - Cabbage Gulch BDAs (~70 structures)
- Other Happenings
  - Elkhorn Repository Investigation
    - Fieldwork complete
      - 18 test pits excavated
- Ally Allen, summary of her summer in the Big Hole
  - Restoration projects involved with:
    - Anaconda Uplands
      - Upper Oregon Creek
      - California Creek demo area
      - Cabbage Gulch
      - Muddy Gulch
    - Eastern Pioneers
      - Browns Gulch tributary







- Browns Gulch mainstem
- Trapper Creek tributary
- Trail Creek conifer encroachment
- Smith Sage Springs Restoration
- FFIP monitoring
- Highlights
  - LTPBR structures: Ally loved seeing the water being backed up
  - Various field measurements: Skills she gets to take with her into the future
- Lessons Learned
  - There are many steps to a restoration project that aren't always talked about.
  - Many people from different backgrounds help to create an amazing project.
  - Beavers are hard to get on a trail camera.
  - Ally will never look at a stream the same way again!



#### **New Business**

- JM Peck nomination
  - John Jackson made a motion to add JM Peck to BHWC's governing board.
    - Liz Jones seconded the motion.
      - No opposition, no discussion
  - Motion passed, JM is now on BHWC's board (Congrats, JM, and welcome!)
- The Big Hole Valley Historical Society has published 2 books on history of the Big Hole. You can purchase them both directly from Alta Miller or at the bookstore in Dillon. 100% of proceeds stay in the Big Hole Valley and are used for scholarships for local students. If purchased from Alta, the first volume is \$50 and the second is \$65. (Prices are slightly higher at the bookstore.)

## Break – 10 minutes

## **Special Topic Presentation**

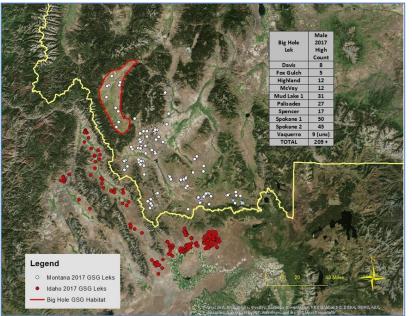
- Big Hole Sage Grouse Study
  - Presented by: Vanna Boccadori, Montana Fish, Wildlife and Parks

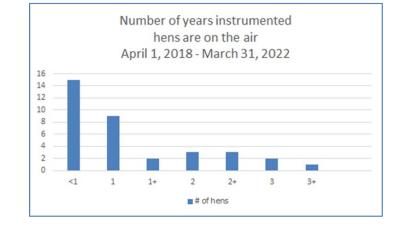
#### Upper Big Hole Sage Grouse Study

- 2018-2022
- Mission: Proactive collaborative approach to sage grouse conservation in a sustainable working landscape.
- Objectives:
  - o Define seasonal habitat use
  - Determine migratory status
  - Identify migration corridors and stop-over locations
  - Determine if Big Hole population contributes to genetic connectivity across SW MT and ID
  - Characterize nesting habitats
- Partners:
  - o USFWS
  - o BLM
  - o FWP
  - o Todd Cross
  - o USFS
  - **TC**
  - o DNRC
  - o Big Hole landowners
  - o BHWC
  - Vigilante Electric Cooperative

## Study Results

- Probability of surviving the first breeding season post capture = 0.73
- Probability of surviving the first winter post capture = 0.95
- Do hens exhibit nest fidelity? YES
  - Overall, yes averaging 0.4 miles between consecutive nests. Great habitat in the Big Hole!!!
  - Devil in the details: depends on age, nest fate within and across years, years of experience.
  - NOTE: hens display nest fidelity even when habitat has been altered since the hen began nesting there. Time lag can lead to decline in population.







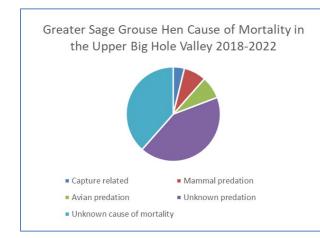


Nesting

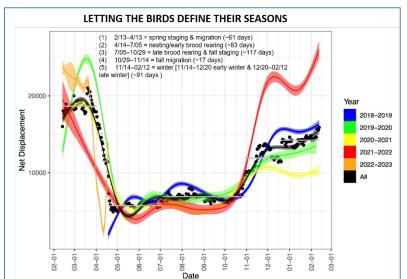
46.2°N

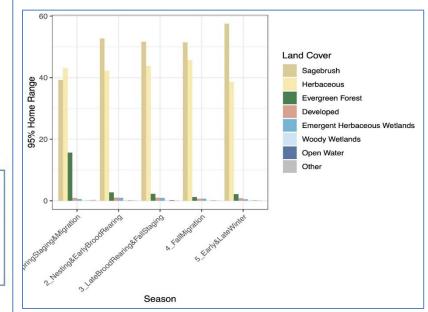
46.0

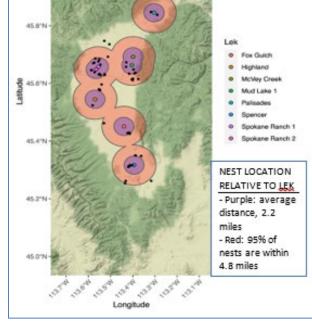
- o Incubation: 27 days
- Clutch size: 7 eggs
- Likelihood of a hen nesting: 94%
- Nest success: 33%
- Annual reproductive success
  (probability of a female hatching ≥1 egg in a season): 37%

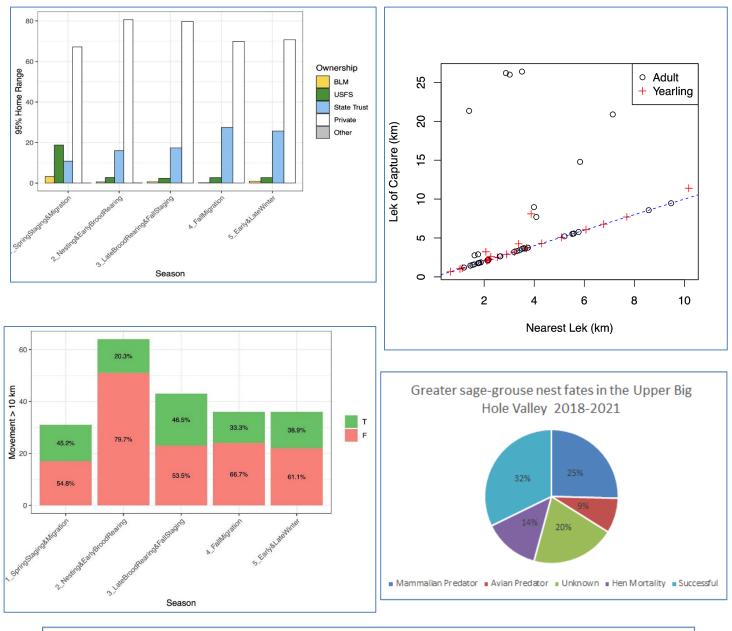


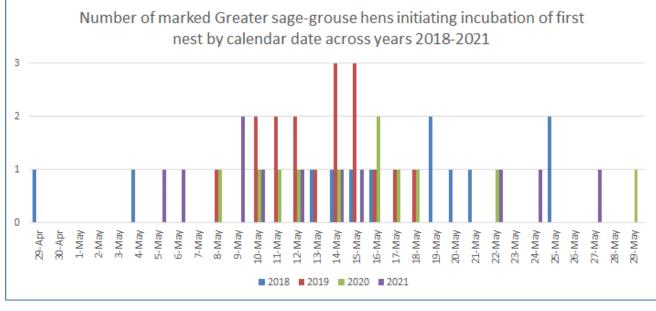


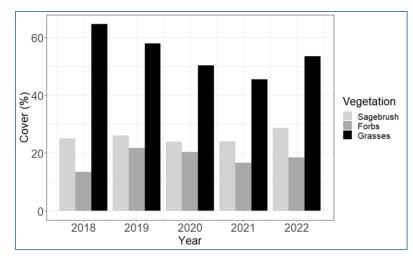


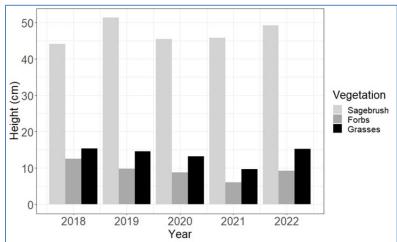


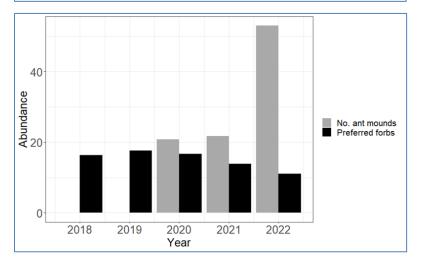








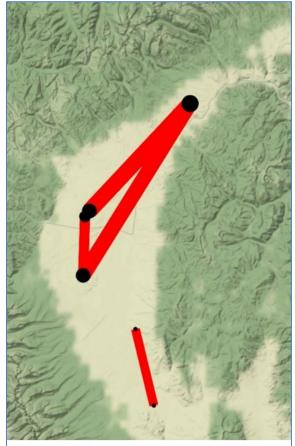




## **Upcoming Meetings**

- October 18, 2023: Wildlife Update (MFWP)
  - 7:00 pm at the Divide Grange/Zoom
- November 15, 2023: Deep Aquifer Pumping (MBMG)
  - $\circ~~$  6:00\* pm at the Divide Grange/Zoom
    - Please note the time change to 6 pm to account for the shorter winter days.

Nest Shrub Characteristics	Average	Range	
Shrub height (cm)	61	35-97	
Shrub width @ widest (cm)	100	59-158	
Shrub width @ 90° (cm)	78	50-122	
Nest branch height (cm)	30	17-56	
Nest branch length (cm)	32	10-74	
% Aerial nest cover – ARTF Live	73%	5-100	
% Aerial nest cover – ARTF Dead	27%	5-85	
% Lateral nest cover	66%	25-95	



The genetic network of Greater sage grouse hens in the Upper Big Hole Valley. The size of the nodes (leks, black) indicates the strength of their connection within the network. The width of the edges (red) indicates their weight (i.e, the magnitude of genetic exchange between any two connected nodes).

## Adjourn