

# **Big Hole Watershed Committee**

Monthly Meeting Minutes
October 15, 2025 – 7:00 pm at the Divide Grange
Zoom option also provided

#### In Attendance

In-person: Tana Lynch, BHWC; Nolan Salix, BHWC; Karly Noetzel, BHWC; Tom Bowler, Butte Resident; Betty Bowler, Butte Resident; Dean Peterson, Rancher/BHWC; Luke Lutz, DNRC; Jim Hagenbarth, Rancher/BHWC; Katelin Killoy, MFWP; Jeff Wolk, Resident; Howard Varner, Resident; Dean Peterson, Rancher/BHWC; Dave Duffy, Resident; Tom Caddy, Resident; Jeanne Caddy Resident; Ian Moore, Big Sky Land Management; and John Jackson, Beaverhead County Commission/BHWC.

Zoom: Pedro Marques, BHWC; and Jim Griffin, Resident (Butte).

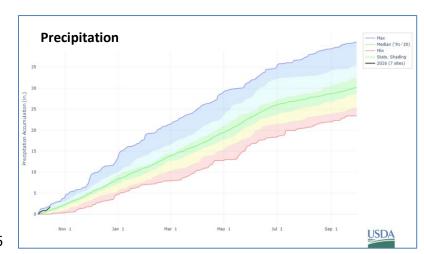
#### **Meeting Minutes**

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 Lynch, BHWC Associate Director, at <a href="mailto:tlynch@bhwc.org">tlynch@bhwc.org</a> or (406) 267-3421 to suggest additions or corrections.

#### **Reports**

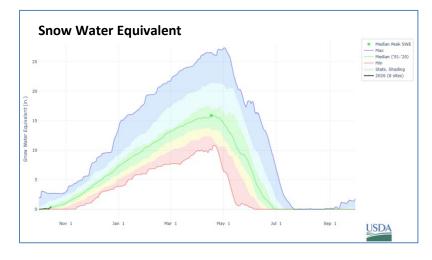
Streamflow and Snowpack Report – Luke Lutz, Montana Department of Natural Resources and Conservation

- Streamflows: (October 15th, 2025)
  - o Wisdom (06024450): 46 cfs
  - Big Hole River near Wise River (41D 08000): 211 cfs
  - Maiden Rock (06025250): 300 cfs
  - o Melrose (06025500): 311 cfs
  - o Glen (06026210): 321 cfs
  - Hamilton Ditch (06026420): 306 cfs



Stream And Gage Explorer (StAGE): <a href="https://gis.dnrc.mt.gov/apps/stage/">https://gis.dnrc.mt.gov/apps/stage/</a>

- Precipitation: 167% of average (1991-2020) – Note the new Water Year started October 1
- Climate Outlook (NOAA):
  - Outlook: The 8-14 day outlook predicts slightly above normal temperatures and slightly above normal precipitation.
  - Seasonal Outlook: The seasonal outlook predicts slightly above normal temperatures and slightly above normal precipitation.



- NOAA Seasonal Forecast: La Niña conditions are present and favored to persist through
   December 2025 February 2026, with a transition to ENSO-neutral likely in January-March 2026 (55% chance), (9 Oct 2025).
- *U.S. Seasonal Drought Outlook:* Severe drought persists in our watershed.

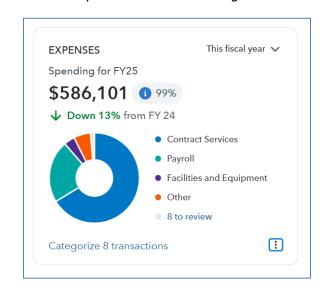
Director's Report – Pedro Marques, Executive Director

- What does conservation leadership look like for BHWC?
  - Policy
  - Pooled funding
  - o Resource needs?
  - o Community needs?
  - Regional influence
  - Some quotes to think about:
    - "If future generations are to remember us with gratitude rather than contempt, we must leave them something more than the miracles of technology. We must leave them a glimpse of the world as it was in the beginning, not just after we got through with it". Lyndon B. Johnson (upon signing the Wilderness Act 1964)
    - "Native People were not scattered nomads hoping to find a berry to eat or a deer to hunt. Rather, (with some exceptions) Indigenous civilizations were living in highly manicured biomes, designed through extensive and sophisticated land management

techniques to support complex and biodiverse life systems." – Lyla June Johnston (Architects of Abundance, Doctoral Dissertation, 2022)

#### Funding:

- High Stakes Foundation (Funded- amount pending)
- Charlotte Martin Foundation (Sent)
- RDGP Planning: Continuation of storage investigations (Sent)
- Ranching for Rivers- Fencing: Johnson Cr. Area (Nov.1)
- Future Fisheries Program: Kamperschroer spawning channel (November 15)



- o National Forest Foundation-Public engagement and high meadow restoration (April '26)
- BoR Water Storage: Continuation of MBMG feasibility (April '26)
- DEQ 319 program: Burma Road Sediment Project
- More Communications:
  - FWP Beaver Translocation EA
    - Moose Cr. Pilot Project
    - We need nuisance beaver!
  - Drought Plan discussions
  - HydroGreens
- Restoration Project Update
  - Projects underway:
    - High Meadow Storage Capacity WGM Group
    - California Creek "demo area" design W.E.T.
    - Beaverhead CD Elkhorn Mine
    - Smith Springs ditch siphon design Confluence Consulting
    - East Pioneers Conifer Encroachment
      - Funded by MDF, RMEF, USFS, BLM
      - 1,000 acres done Star Forestry
        - 224 acres on private land North of Lost Creek
          - Thank you, Diane!
  - Projects completed:
    - Rock Creek Fish Barrier R.E. Miller
  - Next-up/Projects to-be contracted:
    - Elkhorn Preserve/Lazy S Ranch: Landowner agreement complete
    - Smart Creek: Permits secured from Army Corps
    - Kamperschroer Riparian: negotiating with contractor for reduced scope
    - California Creek Designs: Low Intensity Option under design: FY '26 Contract Signed
    - Stock Tank Projects: Support for FWP to fund 2 tanks
    - Selway and Trail Creek Meadow MCC
  - o Projects in-design, scoping, funding:
    - Johnson Creek area fencing
    - Wise River headgate
    - Jerry Creek headgate
    - Moose Creek headwaters: TNC, USFS
    - Burma Road: Sediment project
    - Pennington Bridge Phase 2: Madison County
    - Melrose Diversion
    - Moose Creek Headwaters

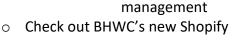
Steering Committee Report – Jim Hagenbarth, Chairman; Dean Peterson, Vice-Chairman; Roy Morris, Secretary

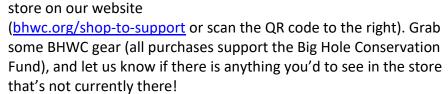
• The steering committee met with Pedro in July. Planned for Pedro's last few months in Brazil.

Communications and Wildlife Report – Tana Lynch, Associate Director

- Communications:
  - Karly Noetzel, BHWC's new Communications Specialist (hired September 2025)
    - Conract work for BHWC summer 2025
    - Hired to do:

- Video production
- Social media
- Marketing
- Website management





- Press & Publications:
  - Report: Anglers spent \$1.3B fishing in Montana in 2024, supporting thousands of jobs
    - Montana Standard October 9
  - FWP reopens one stretch of the Big Hole River to fishing
    - Montana Standard October 8
  - 'Dead, dry rivers': Lawsuit says state isn't managing rivers for the benefit of all
    - Montana Free Press October 6
  - Project aims to lure back beavers with flattery
    - Montana Standard October 2
  - Montana's water future depends on cooperation, not conflict | Opinion
    - Montana Standard September 4
    - Pedro Marques, BHWC, and Seth Wilson, Blackfoot Challenge
  - Groups Sue to Force FWP to Enforce River Flow Minimums
    - Missoula Current August 14
- Weekly drought updates:
  - Current streamflow
  - Temperature
  - River status by section
  - Long-term average flows
  - Text DROUGHT to 26989 & register
    - Also sent via email
    - Sign up at bhwc.org
- Wildlife:
  - Carcass Removal & Composting
    - Compost site ready for winter
    - Carcass removal spring 2026
  - o Range Rider
    - July 1 September 30
    - Purchased used 4-wheeler for program
    - Accepting donations to offset cost at <u>bhwc.org/#donate</u> or by mail (send checks to BHWC at PO Box 21, Divide, MT 59727. Write "4-wheeler" in memo.)
    - 2025 Range Rider Program Summary:
      - The 2025 Range Rider season in the Big Hole Valley was marked by steady fieldwork, challenging weather, and valuable wildlife observations.



shopify

- Range Rider Chet Robertson and his canine companion, Finn McCool, spent 52 days in the field monitoring livestock allotments and documenting predator activity (and a few days on reporting and equipment repairs):
  - Their reports describe encounters with wolves, bears, and mountain lions, as well as the conditions affecting cattle and wildlife movement across the summer season.
  - Notably, wolf activity was consistent throughout the reporting period, with multiple sets of tracks found in recurring locations, suggesting a single or small group maintaining a local range between Hamby, Englegard, and Little Lake Creek.
  - While no livestock losses were confirmed or reimbursed by Wildlife Services, several interactions between predators and the environment provided valuable insight.
  - A memorable highlight included a close encounter with a black bear sow and her three cubs climbing a fir tree—an event the rider described as both exhilarating and peaceful, given his long familiarity with the same sow over several years.

#### **New Business**

None

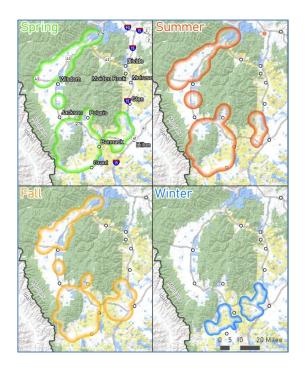
#### Break - 10 minutes

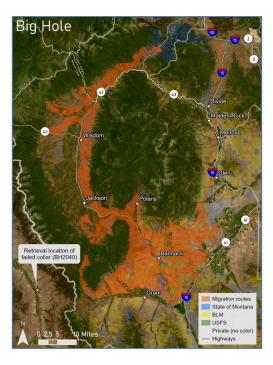
# **Meeting Topic:**

# Pronghorn: Fun Facts and Management of the Upper Big hole Population

Presented by: Vanna Boccadori, Montana Fish, Wildlife and Parks

## Pronghorn Use and Movement in the Big Hole





### Management of the Upper Big Hole Pronghorn

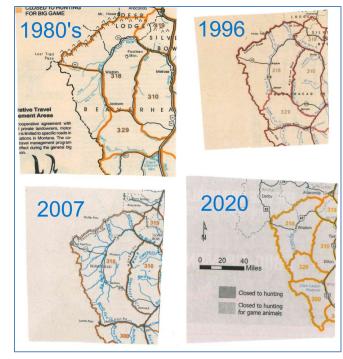
- Summer aerial survey every other year
  - Total count
  - Herd composition
- Either-sex and does/fawn licenses issued

# **Pronghorn Biology**

- Our local pronghorn are relics of a once-diverse family
- Antilocapra Americana is the sole survivor of its family. And only found on North America!
  - Greek for "brightness of eye"
  - It's nearest relative is the giraffe!
  - Taxonomy:

Order: Artiodactyla
 Family: Antilocapridae
 Genus: Antilocapra
 Species: Americana

- Subspecies:
  - o americana
  - o mexicana
  - o oregona
  - o peninsularis
  - sonoriensis
- The world of ancient pronghorn was very different from today
  - Present-day predators include golden eagle, mountain lion, coyote
- And they are NOT antelopes true antelopes are in the family Bovidae











- o So why does FWP still call them antelope?
  - Basically, because it's people are used to and it's the term that has been used for decades.
- Pronghorn can run >50 mph
  - o They are the 2<sup>nd</sup> fastest land mammal!
- More fun facts:
  - o Sheaths shed

- Hollow hair
- Fused leg bones, no dew claws
- Padded hooves
- Large lungs/trachea and heart
- Teeth erupt whole lives
- O Horns:
  - Made of keratin
  - Shed every year as opposed to true horns (like on a bighorn sheep) that stay on for life
  - Cover a bony core
- Pronghorn diet:
  - Winter sagebrush
  - Spring grasses
  - Summer forbs

#### **Pronghorn Behavior**

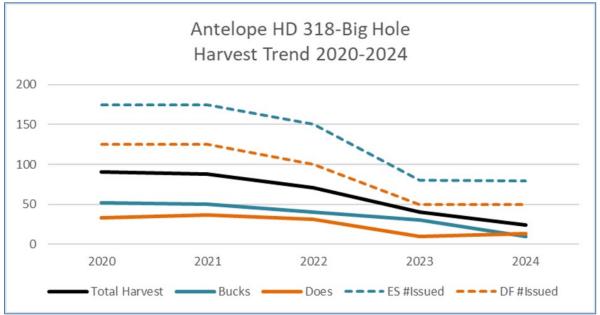
- Selfish herd
- Reproduction:
  - o Breed in September/October
  - Long gestation (250 days)
  - Typically twins (98% of pregnancies)
  - Newborns are precocial
  - Newborn twins are 20% mom's weight (human twins 10%) [5-9 lbs., 75-100 lbs.]
  - Super-ovulators!
    - Double-horned uterus
      - 4 implantation sites
      - 2 inner embryos will push out the outer 2, so pronghorn have twins, not quadruplets (although they can occasionally have triplets)
    - Battle in the uterus
  - Sex ratios
    - In utero or at birth NOT older fawns
    - 1:1 Male to Female
    - Social rank affects birth sex ratio (Byers 1997)
      - Subordinate does daughters
      - Dominant does sons
  - o Susceptibility of pregnant females to winter malnutrition
    - Greatly influenced by prior summer and fall vegetation
  - Catabolize their own fat and protein
    - Abort or resorb fetuses
    - Bones, teeth, hooves might be retained, act as IUD

#### Great Pronghorn References to Learn More

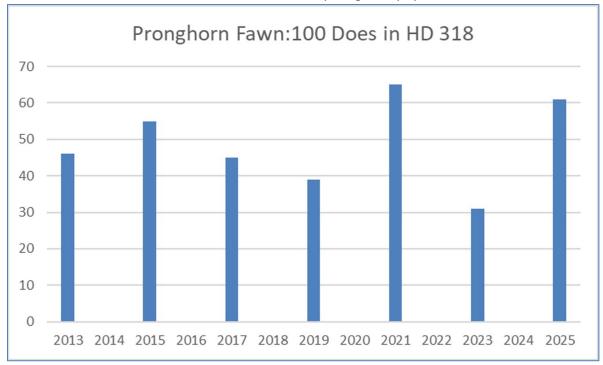
- American Pronghorn: Social Adaptations and the Ghosts of Predators Past John Beyers (1997)
- Pronghorn Ecology and Management Bart W. O'Gara and Jim D. Yoakum (2004)
- Where the Pronghorns Play Dan Flores (2016)

# What's driving the downward trend in the HD 318 pronghorn population?

- Harvest:
  - Long-term average success:
    - 27% Either-sex and 21% Doe/Fawn

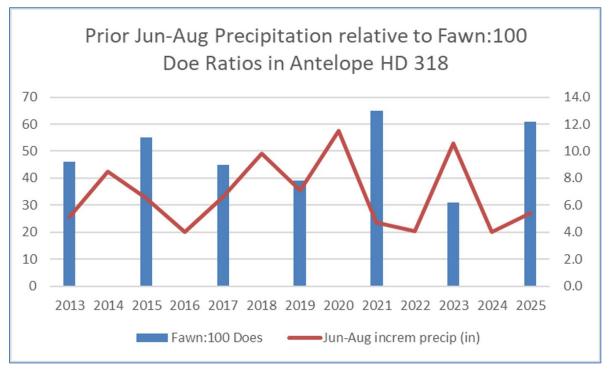


- Harvest on Either-Sex license: 79% bucks
- Malnourishment:
  - o Winter 2022-23 malnourishment in HD 318 pronghorn population?



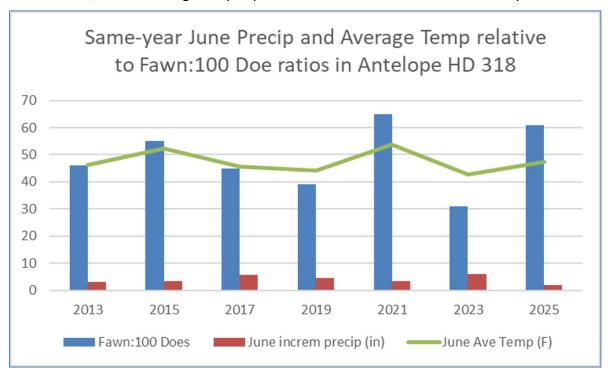
# Forage availability:

o Do good growing conditions the prior summer increase fawn production the next year?

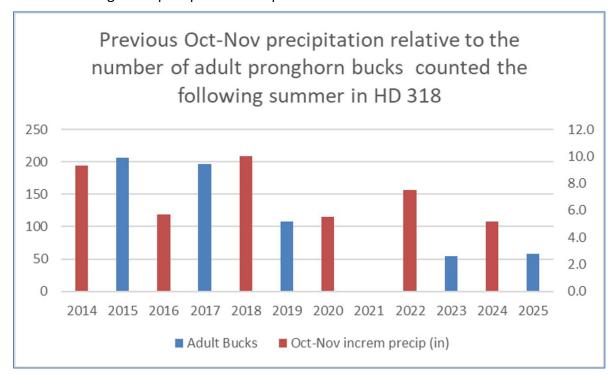


# • Precipitation:

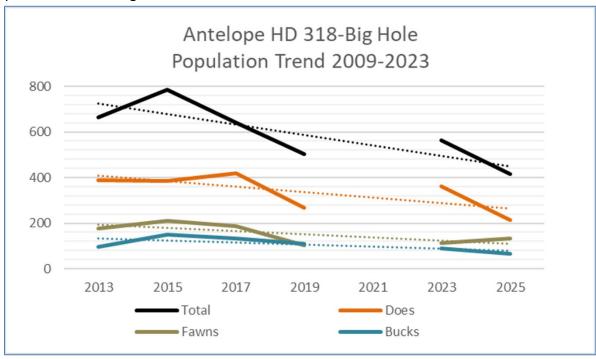
o Do cold, wet Junes negatively impact the number of fawns counted in July?



o Does Fall green-up help bucks recuperate from the rut and survive winter?



• In summary, there are many factors influencing the downward trend in the HD 318 pronghorn population and no single identifiable cause.



### **Upcoming Meetings**

- Wednesday, November 19, 2025: BHWC Monthly Meeting
  - o 6:00 PM at the Divide Grange Hall Topic: Archaeology and Cultural Resources at Elkhorn Mine and Mill

### Adjourn