

**From:** [Holt, Bryon](#)  
**To:** [Betty Grizzle](#)  
**Subject:** Fwd: Western states wolverine camera survey-- Idaho update Jan 2017  
**Date:** Wednesday, February 8, 2017 10:58:37 AM  
**Attachments:** [image001.png](#)  
[WSWCP Idaho Update Jan 2017.pdf](#)

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Betty,

I haven't checked to see if you are included in this email or not. But, just in case you are not, here you go.

Bryon

----- Forwarded message -----

**From:** **Burak, Greg** <[greg\\_burak@fws.gov](mailto:greg_burak@fws.gov)>  
**Date:** Wed, Feb 8, 2017 at 8:59 AM  
**Subject:** Fwd: Western states wolverine camera survey-- Idaho update Jan 2017  
**To:** Ally Turner <[ally\\_turner@fws.gov](mailto:ally_turner@fws.gov)>, Benjamin Matibag <[benjamin\\_matibag@fws.gov](mailto:benjamin_matibag@fws.gov)>, Mark Nelson <[mark\\_c\\_nelson@fws.gov](mailto:mark_c_nelson@fws.gov)>, Laura Berglund <[laura\\_berglund@fws.gov](mailto:laura_berglund@fws.gov)>, "Hopper, Dave" <[dave\\_hopper@fws.gov](mailto:dave_hopper@fws.gov)>, Bryon Holt <[bryon\\_holt@fws.gov](mailto:bryon_holt@fws.gov)>

fyi

----- Forwarded message -----

**From:** **Evans Mack,Diane** <[diane.evansmack@idfg.idaho.gov](mailto:diane.evansmack@idfg.idaho.gov)>  
**Date:** Wed, Feb 8, 2017 at 9:19 AM  
**Subject:** Western states wolverine camera survey-- Idaho update Jan 2017  
**To:** "[abbotello@fs.fed.us](mailto:abbotello@fs.fed.us)" <[abbotello@fs.fed.us](mailto:abbotello@fs.fed.us)>, "[aegnew@fs.fed.us](mailto:aegnew@fs.fed.us)" <[aegnew@fs.fed.us](mailto:aegnew@fs.fed.us)>, "[anettles@fs.fed.us](mailto:anettles@fs.fed.us)" <[anettles@fs.fed.us](mailto:anettles@fs.fed.us)>, "[bagarcia@fs.fed.us](mailto:bagarcia@fs.fed.us)" <[bagarcia@fs.fed.us](mailto:bagarcia@fs.fed.us)>, "[bbeegle@fs.fed.us](mailto:bbeegle@fs.fed.us)" <[bbeegle@fs.fed.us](mailto:bbeegle@fs.fed.us)>, "[bdavis@fs.fed.us](mailto:bdavis@fs.fed.us)" <[bdavis@fs.fed.us](mailto:bdavis@fs.fed.us)>, "[bfilbert@fs.fed.us](mailto:bfilbert@fs.fed.us)" <[bfilbert@fs.fed.us](mailto:bfilbert@fs.fed.us)>, "Brian Davis ([briandavis@fs.fed.us](mailto:briandavis@fs.fed.us))" <[briandavis@fs.fed.us](mailto:briandavis@fs.fed.us)>, "[bzwetzig@blm.gov](mailto:bzwetzig@blm.gov)" <[bzwetzig@blm.gov](mailto:bzwetzig@blm.gov)>, "[cahennessey@fs.fed.us](mailto:cahennessey@fs.fed.us)" <[cahennessey@fs.fed.us](mailto:cahennessey@fs.fed.us)>, "[cmark@fs.fed.us](mailto:cmark@fs.fed.us)" <[cmark@fs.fed.us](mailto:cmark@fs.fed.us)>, "[ddgale@fs.fed.us](mailto:ddgale@fs.fed.us)" <[ddgale@fs.fed.us](mailto:ddgale@fs.fed.us)>, "[dhgreen@fs.fed.us](mailto:dhgreen@fs.fed.us)" <[dhgreen@fs.fed.us](mailto:dhgreen@fs.fed.us)>, "[dhighfill@fs.fed.us](mailto:dhighfill@fs.fed.us)" <[dhighfill@fs.fed.us](mailto:dhighfill@fs.fed.us)>, "[dlockman@fs.fed.us](mailto:dlockman@fs.fed.us)" <[dlockman@fs.fed.us](mailto:dlockman@fs.fed.us)>, "[driley@fs.fed.us](mailto:driley@fs.fed.us)" <[driley@fs.fed.us](mailto:driley@fs.fed.us)>, "[dskinner@fs.fed.us](mailto:dskinner@fs.fed.us)" <[dskinner@fs.fed.us](mailto:dskinner@fs.fed.us)>, "[dtromero@fs.fed.us](mailto:dtromero@fs.fed.us)" <[dtromero@fs.fed.us](mailto:dtromero@fs.fed.us)>, "[edavy@fs.fed.us](mailto:edavy@fs.fed.us)" <[edavy@fs.fed.us](mailto:edavy@fs.fed.us)>, "[ggale@fs.fed.us](mailto:ggale@fs.fed.us)" <[ggale@fs.fed.us](mailto:ggale@fs.fed.us)>, "[Greg\\_Burak@fws.gov](mailto:Greg_Burak@fws.gov)" <[Greg\\_Burak@fws.gov](mailto:Greg_Burak@fws.gov)>, "[jalmack@fs.fed.us](mailto:jalmack@fs.fed.us)" <[jalmack@fs.fed.us](mailto:jalmack@fs.fed.us)>, "[jamesrlutes@fs.fed.us](mailto:jamesrlutes@fs.fed.us)" <[jamesrlutes@fs.fed.us](mailto:jamesrlutes@fs.fed.us)>, "[jcgaudry@fs.fed.us](mailto:jcgaudry@fs.fed.us)" <[jcgaudry@fs.fed.us](mailto:jcgaudry@fs.fed.us)>, Jeff Copeland <[jcopeland224@gmail.com](mailto:jcopeland224@gmail.com)>, "[jenniferblake@fs.fed.us](mailto:jenniferblake@fs.fed.us)" <[jenniferblake@fs.fed.us](mailto:jenniferblake@fs.fed.us)>, "[jfoust@fs.fed.us](mailto:jfoust@fs.fed.us)" <[jfoust@fs.fed.us](mailto:jfoust@fs.fed.us)>, "[jgalloway02@fs.fed.us](mailto:jgalloway02@fs.fed.us)" <[jgalloway02@fs.fed.us](mailto:jgalloway02@fs.fed.us)>, "[jmbonn@fs.fed.us](mailto:jmbonn@fs.fed.us)" <[jmbonn@fs.fed.us](mailto:jmbonn@fs.fed.us)>, "[jody\\_brostrom@fws.gov](mailto:jody_brostrom@fws.gov)" <[jody\\_brostrom@fws.gov](mailto:jody_brostrom@fws.gov)>, "[johnashivik@fs.fed.us](mailto:johnashivik@fs.fed.us)" <[johnashivik@fs.fed.us](mailto:johnashivik@fs.fed.us)>, "[jpurvine@fs.fed.us](mailto:jpurvine@fs.fed.us)" <[jpurvine@fs.fed.us](mailto:jpurvine@fs.fed.us)>, "[jtsimpson@fs.fed.us](mailto:jtsimpson@fs.fed.us)" <[jtsimpson@fs.fed.us](mailto:jtsimpson@fs.fed.us)>, "[katherine\\_sarensen@fws.gov](mailto:katherine_sarensen@fws.gov)" <[katherine\\_sarensen@fws.gov](mailto:katherine_sarensen@fws.gov)>, "[kayeorme@fs.fed.us](mailto:kayeorme@fs.fed.us)" <[kayeorme@fs.fed.us](mailto:kayeorme@fs.fed.us)>, "Kim Heinemeyer ([kim@roundriver.org](mailto:kim@roundriver.org))" <[kim@roundriver.org](mailto:kim@roundriver.org)>

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Greetings everyone –

Attached is another update for Idaho's portion of the Western States Wolverine Camera Survey.

Feel free to distribute, and if you prefer not to receive this newsletter, reply and I'll remove you from the list.

Thanks.

Diane

Diane Evans Mack  
Regional Wildlife Diversity Biologist

Idaho Department of Fish and Game

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# WESTERN STATES WOLVERINE CONSERVATION PROJECT

## 4-STATE CAMERA SURVEY



Idaho Update #2

January 2017

### Early Results

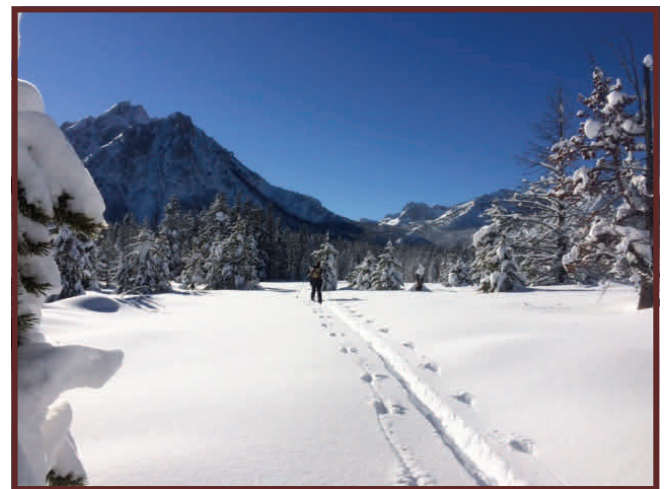


*Two wolverines at a station on the Boise National Forest.*

After deploying cameras prior to December, field crews are revisiting accessible stations once a month to replenish bait, collect DNA samples, and switch out camera cards. As of the end of January most cameras had been revisited twice. Photos coming back from the field are exciting and entertaining. Wolverines have been detected at 11 stations across Central Idaho from the Beaverhead Mtns, Sawtooths, and into the Salmon River Mtns. (see map, p. 2). Fisher have been detected at 5 stations, 2 of which also had wolverines. Marten are showing up at most stations. Cameras will remain active through 31 March.

### Wolverines Traveling Together?

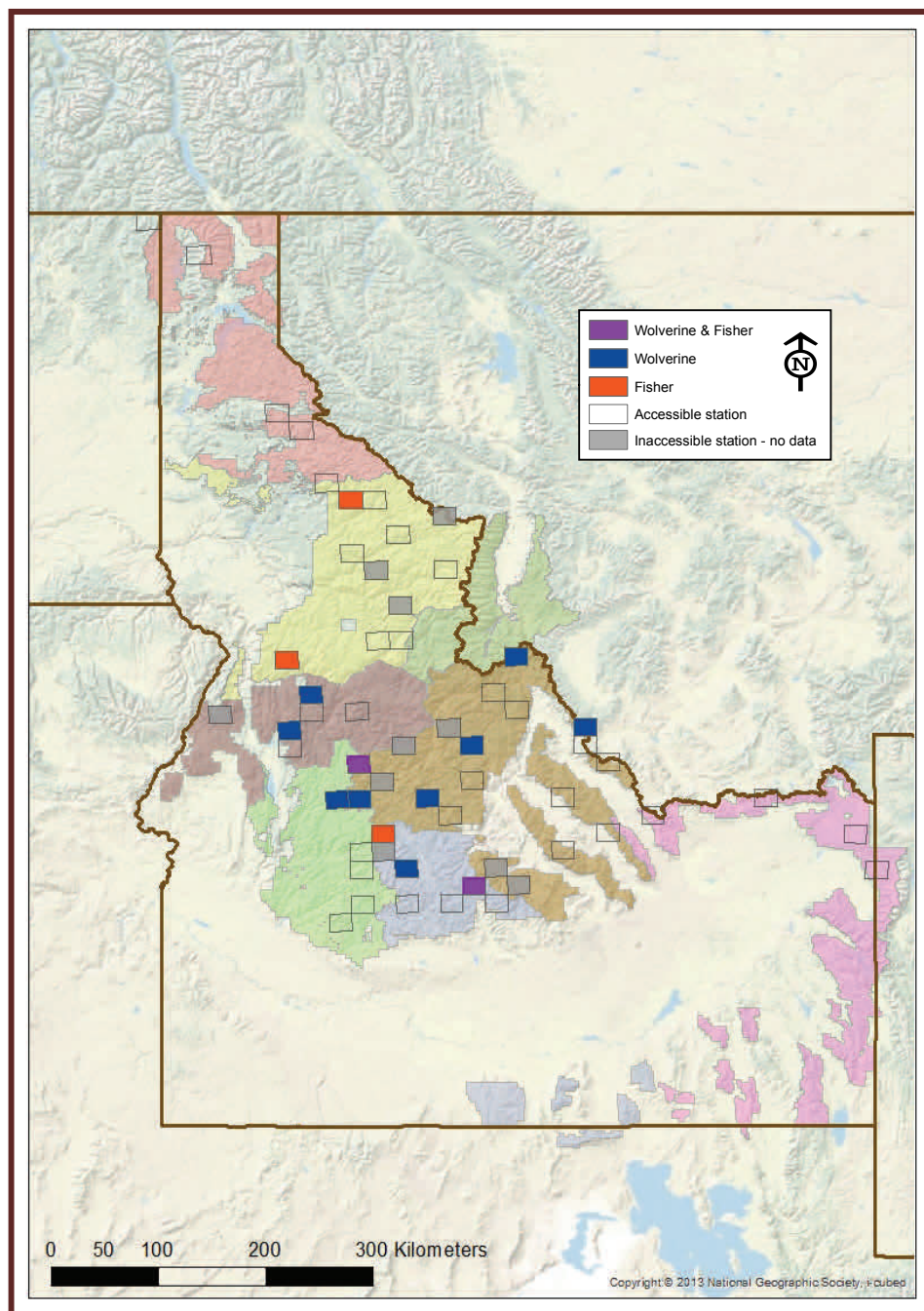
Surprisingly, cameras at 2 different stations logged images of 2 wolverines together. Although these duos could be a parent and offspring or even unrelated animals, they most likely are siblings, according to Jeff Copeland, retired wolverine researcher. Moms encourage young wolverines to become independent in late fall, but they don't necessarily disperse immediately. The social behavior of wolverines is not well documented. Studies elsewhere are combining telemetry data with DNA to better understand social interactions.



*Blakeley Adkins opts for skis rather than a snow machine in deep fresh Sawtooth powder. Photo by Chris Klingler.*



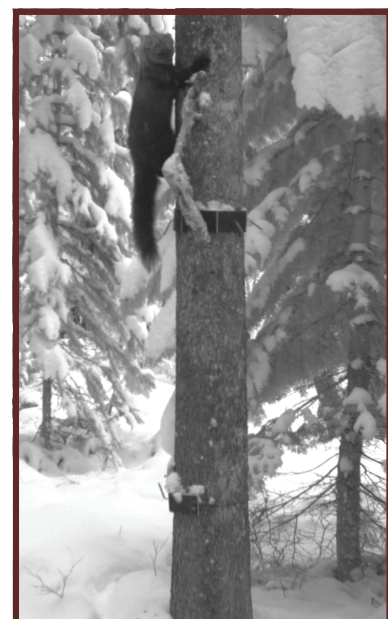
Washington Department  
of Fish and Wildlife



Idaho's 58 grid cells with target species detected as of January 2017. Backdrop colors delineate National Forest boundaries.



Top: A marten pair claims a bait station near the Sawtooth National Recreation Area.



Bottom: Fisher outside the Gospel Hump Wilderness on the Nez Perce-Clearwater NF.

#### Animals detected on cameras thus far:

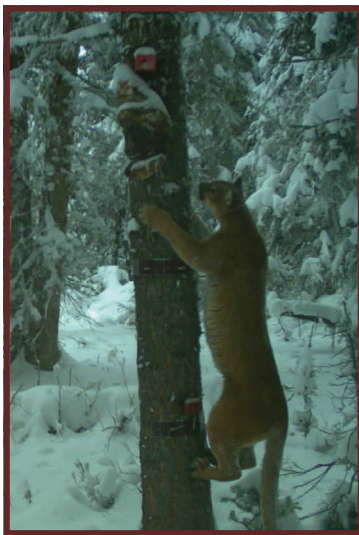
|           |                   |               |
|-----------|-------------------|---------------|
| Wolverine | Mule deer         | Golden eagle  |
| Fisher    | White-tailed deer | Gray jay      |
| Marten    | Elk               | Steller's Jay |
| Moose     | Bobcat            | Raven         |
| Wolf      | Coyote            | Snowshoe hare |
| Mtn Lion  | Fox               | Red squirrel  |

## Sawtooth Avalanche Center Provides Training

In early December most of the Idaho field crew convened in Stanley for a refresher course on avalanche safety. After a classroom session the team headed to Galena Summit to dig a snow pit and practice finding hidden beacons while skiing. Many thanks to Ethan Davis and intern Ben of the Sawtooth Avalanche Center for providing this important training and helping to keep us safe.



*Back row, from left: Jon Wagner, Peter Ott, Diane Evans Mack, Ian Smith, Chris Klingler, Luke Ferguson, Blakeley Adkins, and Bill Blount. Front, from left: Alex Arnold, Kale Voll, and Instructor Ethan Davis.*



*Close, but no lynx. A mountain lion on camera near the Centennial Mountains.*

For more information on the Western States Wolverine Conservation Project in Idaho, contact:

Diane Evans Mack, 208-634-8137

[diane.evansmack@idfg.idaho.gov](mailto:diane.evansmack@idfg.idaho.gov)

## Using DNA To Track Known Wolverines

A few randomly selected grid cells for this 4-state camera survey overlapped the recently completed Central Idaho Winter Recreation–Wolverine Study. The individual detected on camera at right has distinctive white toes, a characteristic of a female from that study. If the DNA from hair collected on the gun brushes is high quality, we will confirm this individual's identity and be able to add 1 additional year to its history, a side benefit of the camera survey.

