

DECLINATION, 2019

1. Big Canyon	15. Burns (this study)
2. Jump-Off Joe Mountain	16. Mahon Creek
3. Calamity Butte	17. Crane
4. Landing Creek	18. New Princeton
5. Mosquito Flat	19. Southeast Harney La
6. Devine Ridge North	20. Coyote Buttes
7. Telephone Butte	21. Adobe Flat
8. Burns Northwest	22. Twin Buttes
9. Poison Creek (this study)	23. Jackass Butte
10. Devine Ridge South	24. Irish Lake
11. Harney	25. Krumbo Reservoir
12. Buchanan	26. Frenchglen
13. Stinkingwater Pass	27. Page Springs
14. Burns Butte	
——— Harney basin hydrolo	gic boundary
— — — County boundary	
Stream	

EXPLANATION OF SYMBOLS





Selected Quaternary units not shown in cross section.



2x vertical exaggeration (horizontal 1:24,000)

Source Data: Three-foot bare earth lidar digital elevation model for Burns (43119-E1) quadrangle derived from multiple Oregon Lidar Consortium airborne lidar surveys: Harney 3-DEP 2018, Silver Creek 2017, Harney Basin 2015, and Burns 2011. These data are distributed through the Oregon Department of Geology and Mineral Industries (DOGAMI) Lidar Program (https://gis.dogami.oregon.gov/maps/lidarviewer/). Water features from USGS High Resolution National Hydrography Dataset (NHD): Aquatic Resources Information System (ARMIS) (2017). Road features from Oregon Department of Transportation (ODOT) (2015).

Projection: Oregon Statewide Lambert Conformal Conic, Unit: International Feet, Horizontal Datum: NAD 1983 HARN. UTM Coordinates: Zone 11N, NAD83.

Software: Esri ArcGIS® v10.6 and Adobe® Illustrator® 2019 v23.0.3

Field Work: Field work conducted in 2018 and 2019 by Carlie J.M. Duda, DOGAMI; Jason D. McClaughry, DOGAMI; Clark A. Niewendorp, DOGAMI (retired); Mark L. Ferns; and Alyssa Pratt, DOGAMI

References:

Cohen, K. M., Finney, S. C., Gibbard, P.L. and Fan, J.-X, 2013, The ICS International Conostratigraphic Chart: Episodes 36, p. 199-204.

Gradstein, F. M., Ogg, J. G., and Smith, A. G., eds., 2004, A geologic time scale: Cambridge, U.K., Cambridge University Press, 589 p.

Ogg, J. G., Ogg, G., and Gradstein, F. M., 2008, The concise geologic time scale: New York, Cambridge University Press, 184 p.

Geology Reviewers: Martin Streck, Portland State University, Oregon; Josh Hackett, Oregon Water Resource Department; Clark A. Niewendorp, DOGAMI (retired); Ian P. Madin, DOGAMI; and Robert A. Houston, DOGAMI.

Digital Cartography: Jon J. Franczyk, DOGAMI

NOTICE: This manuscript is submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for governmental use. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. government.

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. This publication cannot substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from the results shown in the publication.



2x vertical exaggeration (horizontal 1:24,000)