

Jeff S. Jenness

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Professional Website: <http://www.jennessent.com> Full CV: [Download](#)

Google Scholar Citation List: <https://scholar.google.com/citations?user=qaWDM-MAAAAJ&hl=en>

Relevant Experience & Service

GIS Analyst, <i>Spring Stewardship Institute, Museum of Northern Arizona</i>	2014 – Present
Adjunct Professor and GIS Instructor, <i>Northern Arizona University, School of Forestry</i>	2012 – Present
Independent Consultant, <i>GIS Analysis and Application Design, Jenness Enterprises</i>	2000 – Present
GIS Developer, <i>Public Safety Network, Boar's Head Corporation</i>	2009 – 2011
Wildlife Biologist, <i>US Forest Service, Rocky Mountain Research Station</i>	1990 – 2006

Selected Publications and Presentations

- Jenness, J.S., A. Mendoza, B. Mann, L. Stevens, J. Ledbetter and A. Hazelton. 2022. *Gimme Shelter! Springsnails in an Arid Land*. Guerrilla Cartography Shelter Atlas. <https://www.guerrillacartography.org/>
- Yocom, L. L., J. S. Jenness, P. Z. Fulé, and A. E. Thode. 2022. Fire Severity in Reburns Depends on Vegetation Type in Arizona and New Mexico, U.S.A. *Forests* 13:12. <<https://www.mdpi.com/1999-4907/13/11/1957/htm>>. Accessed 19 Nov 2022.
- Stevens, L. E., K. Holcomb, C. Crookshanks, D. W. Sada, J. Jenness, and K. Szabo. 2022. *A Strategy for Conservation of Springsnails in Nevada and Utah, USA*. *Sustainability* 14(15), 9546:1–12. <<https://www.mdpi.com/2071-1050/14/15/9546/pdf>>. Accessed 3 Aug 2022
- Wynne, J. J., J. S. Jenness, D. L. Sonderegger, T. N. Titus, and N. Cabrol. 2021. *Advancing Cave Detection Using Terrain Analysis and Thermal Imagery*. *Remote Sensing* 13:3578, 1–25. <<https://www.mdpi.com/2072-4292/13/18/3578/pdf>>. Accessed 8 Sep 2021.
- Keeley, A.T.H., Beier, P. and J. Jenness. 2021. *Connectivity metrics for conservation planning and monitoring*. *Biological Conservation*. 255:109008
- Stevens, L.E., J. Jenness and Ledbetter, J.D. 2020. *Springs and springs-dependent taxa of the Colorado river basin, southwestern North America: geography, ecology and human impacts*. *Water*. 12(5),1501. 30 pp. <https://www.mdpi.com/2073-4441/12/5/1501>
- Yocom, L.L., J. Jenness, P.Z. Fulé, and A.E. Thode. 2019. *Previous fires and roads limit wildfire growth in Arizona and New Mexico, U.S.A*. *Forest Ecology and Management*. Volume 449, 1 October 2019, 117440. 7 pp.
- van den Burg, S. W. K., J. Aguilar-Manjarrez, J. Jenness, and M. Torrie. 2019. *Assessment of the geographical potential for co-use of marine space, based on operational boundaries for Blue Growth sectors*. *Marine Policy*. 100:43-57
- Kim, Y.-S., S. Latifah, M. Afifi, M. Mulligan, S. Burk, L. Fisher, E. Siwicka, K. Remoundou, M. Christie, S. M. Lopez, and J. Jenness. 2018. *Managing forests for global and local ecosystem services: a case study of carbon, water and livelihoods from eastern Indonesia*. *Ecosystem Services*. 31:153-168.
- Rebollo, S., S. Martínez-Hestekamp, G. García-Salgado, L. Pérez-Camacho, J. M. Fernández-Pereira, and J. Jenness. 2017. *Spatial relationships and mechanisms of coexistence between dominant and subordinate top predators*. *Journal of Avian Biology*. 48:1226–1237.
- Ganey, J. L., G.C. White, J. Jenness, and S.C. Vojta. 2015. *Mark–recapture estimation of snag standing rates in Northern Arizona mixed-conifer and ponderosa pine forests*. *The Journal of Wildlife Management*. 79(8):1369-1377
- Rudnick, D.A., S. J. Ryan, P. Beier, S.A. Cushman, F. Dieffenbach, C.W. Epps, L.R. Gerber, J. Hartter, J.S. Jenness, J. Kintsch, A.M. Merenlender, R.M. Perkl, D.V. Preziosi, and S.C. Trombulak. 2012. *The role of landscape connectivity in planning and implementing conservation and restoration priorities*. *Issues in Ecology*. 16:1-20
- Tagil, S. and J.S. Jenness. 2008. *GIS-based automated landform classification and topographic, landcover and geologic attributes of landforms around the Yazoren Polje, Turkey*. *Journal of Applied Sciences*. 8(6):910-921
- Jenness, J.S. *Mahalanobis distances*. 2007. The Wildlife Society 14th Annual Conference. Tucson, AZ, USA
- Jenness, J.S. 2004. *Calculating landscape surface area from digital elevation models*. *Wildlife Society Bulletin*. 32(3):829-839

Relevant ArcGIS Software

- Jenness, J.S. 2016. *Conefor Inputs*
Jenness, J.S. 2010. *DEM Surface Tools*
Jenness, J.S., B. Brost and P. Beier. 2010. *Land Facet Corridor Designer*
Jenness, J.S. 2010. *Export to Circuitscape Tool*
Jenness, J.S. 2008. *Tools for Graphics and Shapes*
Majka, D., J.S. Jenness and P. Beier. 2007. *Corridor Designer: A Suite of ArcGIS Tools to Identify and Evaluate Corridors Between Fragmented Habitat Blocks.*
Jenness, J.S. 2004. *Mahalanobis distances.*

University Courses Taught: Northern Arizona University School of Forestry

GIS Component for Semester B of the Professional Forestry Program	Spring Semester; 2012 – 2022
GIS Component for Semester C of the Professional Forestry Program	Fall Semester; 2012 – 2014
GIS Component for Semester D of the Professional Forestry Program	Fall Semester; 2013 – 2015
FOR 225: GIS Tools in Forestry	Spring Semester; 2018 – Present
FOR 333: Spatial Techniques in Forestry	Spring Semester; 2023 – Present
FOR 425: Forest Management Apps in GIS	Winter Biennially; 2012; 2018 – Present
FOR 525: GIS and Spatial Analysis	Fall Semester; 2018 – Present

Relevant YouTube GIS Presentations

- Choosing Springs to Survey: <https://youtu.be/z5dGjyjXos>
Springs Online: A Long-Term Database of Springs and Spring-Dependent Species, and Its Application in the Springsnail Conservation Strategy <https://youtu.be/I69tHE4WnAQ>
The Springs Stewardship Institute Geodatabase https://youtu.be/OXp2h_mL-rg
Drones, Structure-from-Motion, and the Digital Twin: Lessons Learned Trying to Model Spring Habitats <https://youtu.be/DE81-A4M3nM>

Education

M.S. IN FORESTRY <i>College of Ecosystem Sciences, Northern Arizona University</i>	1996 – 2000
M.A. IN EDUCATIONAL PSYCHOLOGY, COUNSELING, <i>Northern Arizona University</i>	1989 – 1993
B.S. IN FORESTRY <i>School of Forestry, Northern Arizona University</i>	1986 – 1989

Service to Professional Organizations

American Society for Photogrammetry and Remote Sensing	2000 – Present
Association for Computing Machinery	2014 – Present
Ecological Society of America	2010 – Present
Society for Conservation and GIS	2006 – Present
The Wildlife Society	1995 – Present
<i>Chair, Spatial Ecology and Telemetry Working Group</i>	2008 – 2010, 2018 – Present
<i>Past-Chair, Spatial Ecology and Telemetry Working Group</i>	2010 – 2018