CURRICULUM VITAE

**Dr. Viktoria Wagner**

**Associate Professor**

**Department of Biological Sciences, University of Alberta**

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| **Academic positions** |

since 2024 **Associate Professor**, Department of Biological Sciences, University of Alberta

2018–2024 **Assistant Professor**, Department of Biological Sciences, University of Alberta

2016–2018 **Adjunct Researcher**, Department of Botany and Zoology, Masaryk University, Czech Republic

2014–2016 **Marie Curie Postdoctoral Fellow**, Department of Botany and Zoology, Masaryk University, Czech Republic

2012–2014 **Postdoctoral Researcher**, Department of Botany and Zoology, Masaryk University, Czech Republic

2011–2012 **Alexander von Humboldt Postdoctoral Fellow**, College of Forestry and Conservation, University of Montana, U.S.A.

2007–2011 **Academic Staff Member,** Institute of Biology, University of Halle-Wittenberg, Germany

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| **Academic training** |

2007–2011 **Ph.D.**, Institute of Biology, University of Halle-Wittenberg, Germany

Supervisor: Prof. Isabell Hensen

2002–2006 **Diploma**\*, Biology, University of Göttingen, Germany

Supervisor: Prof. Erwin Bergmeier

\*Equivalent to combined BSc and MSc

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| **Awards and Distinctions** (selection) |

2014–2016 Marie Curie Postdoctoral Fellowship

2011–2012 Alexander von Humboldt Postdoctoral Fellowship

2006 German Academic Exchange Service, Diploma Thesis Completion Scholarship

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| **Leaves of Absence** |

2013–2014 Parental leave (full-time and part-time), Masaryk University

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| **Publications** |

Supervised lab members are highlighted in bold

**Peer-reviewed journal articles**

46. Pärtel, M., Tamme, R., Carmona, C.P., Riibak, K., Moora, M. [...] **Murillo, R**. [...], Wagner, V. [...], Zobel M. (in press) Global impoverishment of natural vegetation revealed by dark diversity. *Nature*.

45. **Murillo, R.**, Wagner, V., (in press) Propagule pressure and soil disturbance diminish plant community resistance to invasion across habitat types. *Journal of Vegetation Science*.

44. Holden, E., **Murillo, R.**, Grenke, J**., Holden, K.**, **Villasor, C.**, Wagner, V. (2025) The Biology of Canadian Weeds: Poa pratensis L. *Canadian Journal of Plant Science* 105: 1-17.

43. Cai, L., Kreft, H., Denelle, P., Taylor, A., Craven, D., Dawson, W., Essl, F., van Kleunen, M., Pergl, J., Pyšek, P., Winter, M., Cabezas, F.J., Wagner, V., Belser, P.B., Wieringa, J.J., Weigelt, P (2025) Environmental filtering, not dispersal history, explains global patterns of phylogenetic turnover in seed plants at deep evolutionary timescales. *Nature Ecology & Evolution* 9(2): 314-324.

42. Biancari, L., Aguiar, M.R., Eldridge, D.J., Oñatibia, G.R., Le Bagousse-Pinguet, Y., [...] Wagner, V., [...] Maestre, F.T. (2024) Drivers of woody dominance across global drylands. *Science Advances* 10(41): eadn6007.

41. **Murillo, R**., **Pätsch, R**., Wagner, V. (2024) Agronomic non-native species are overrepresented across habitat types in central Canada. *Journal of Applied Ecology* 61(6): 1385-1395.

40. Pätsch, R., Midolo, G., Dítě, Z., Dítě, D., Wagner, V., Pavonič, M., Danihelka, J., Preislerová, Z., Krstivojević Ćuk, M., Stroh, H.G., Tóth, T., Chytrá, H., Chytry, M. (*accepted*) Beyond salinity: plants show divergent responses to soil ion composition. *Global Ecology and Biogeography*.

39. **Murillo, R.**, **Pätsch, R.**, Wagner, V. (*accepted*) A comparative assessment of the levels of plant invasion across habitats in central Alberta. *Journal of Applied Ecology*.

38. **Villasor**, **C.**, **Robertson, K**., Becker, T., Cahill, J.F., Deák, B., Hensen, I., Otfinowski, R., Rosche, R., Shyriaieva, D., Vakhlamova, T., Valkó, O., Wagner, V. (2024) Invasion success of three cool-season grasses in the northern prairie: a test of three hypotheses. *Oikos* e10266.

37. **Lugar, R.**, Nelson, C.R., Wagner, V. (2023) Long term effects of forb-selective herbicides on grassland communities. *Applied Vegetation Science* 26: e12738.

36. **Pätsch, R**., **Zapisocki, Z**., **Tucker D.**, Stroh, H.G., Becker, T., Spribille, T., Wagner, V. (2022) Bedrock meadows: A distinct vegetation type in northwestern North America. *Applied Vegetation Science* 25: e12702.

35. Vakhlamova, T., Wagner, V., Padullés Cubino, J., Chytrý, M., Lososová, Z. (2022) Urban plant diversity in Kazakhstan: effects of habitat type, city size and macroclimate. *Applied Vegetation Science* 25(3): e12679.

34. **Zapisocki, Z.**, **de Assis Murillo, R**., Wagner, V. (2022) Non-native plant invasions in prairie grasslands of Alberta, Canada. *Rangeland Ecology and Management* 83:20-30.

33. Oyundelger, K., Harpke, D., Herklotz, V., Troeva, E., Zheng, Z., Li, Z., Oyuntsetseg, B., Wagner, V., Wesche, K., Ritz, C.M. (2022) Phylogeography of *Artemisia frigida* (Anthemideae, Asteraceae) based on genotyping‐by‐sequencing and plastid DNA data: Migration through Beringia. *Journal of Evolutionary Biology* 35(1): 64-80.

32. Wagner, V., Večeřa, M., Jiménez-Alfaro, B., Pergl, J., Lenoir, J., Svenning, J.-C., Pyšek, P., Agrillo, E., Biurrun, I., Campos J.A., Ewald, J., Fernández-González, F., Jandt, U., Rašomavičius, V., Šilc, U., Škvorc, Ž., Vassilev, K., Wohlgemuth, T., Chytrý, M. (2022) Alien plant invasion hotspots and invasion debt in European woodlands. *Journal of Vegetation Science* 32: e13014.

31. Harding, L.E., Bourbonnais, M., Cook, A.T., Spribille, T., Wagner, V., Darimont, C. (2020) No statistical support for wolf control and maternal penning as conservation measures for endangered mountain caribou. *Biodiversity and Conservation* 29: 3051–3060.

30. Bruelheide, H., Dengler, J., Jiménez‐Alfaro, B., Purschke, O., Hennekens, S. [...] Wagner, V. [...] (2019) sPlot – A new tool for global vegetation analyses. *Journal of Vegetation Science* 30: 161–186.

29. Palpurina, S., Chytrý, M., Hölzel, N., Tichý, L., Wagner, V., Horsák, M., Axmanová, I. Hájek, M., Hájková, P., Freitag, M., Lososová, Z., Mathar, W., Tzonev, R., Danihelka, J., Dřevojan, P. (2019) The type of nutrient limitation affects the plant species richness–productivity relationship: evidence from dry grasslands across Eurasia. *Journal of Ecology* 107: 1038–1050.

28. McManamen, C., Nelson, C.R., Wagner, V. (2018) Timing of seeding after herbicide application influences rates of germination and seedling biomass of native plants used for grassland restoration. *Restoration Ecology* 26:1137–1148.

27. Dengler, J., Wagner, V., Dembicz, I., García-Mijangos, I., Naqinezhad, A., Boch, S., Chiarucci, A., Conradi, T. et al. (2018) GrassPlot – a database of multi-scale plant diversity in Palaearctic grasslands. *Phytocoenologia* 48: 331–347.

26. Rosche, C., Schrieber, K., Lachmuth, S., Durka, W., Hirsch, H., Wagner, V., Schleuning, M., Hensen, I. (2018) Sex ratio rather than population size affects genetic diversity in *Antennaria dioica*. *Plant Biology* 20: 789–796.

25. Wagner, V., Chytrý, M., Jiménez-Alfaro, B., Pergl, J., Hennekens, S., Biurrun, I., *et al*. (2017) Alien plant invasions across European woodlands. *Diversity and Distributions* 23: 969–981. – **Editor’s choice.**

24. Lekberg, Y., Wagner, V., Rummel, A., McLeod, M., Ramsey, P.W. (2017) Strong indirect herbicide effects on mycorrhizal associations through plant community shifts and secondary invasions. *Ecological Applications* 27: 2359–2368.

23. Sengl, P., Magnes, M., Wagner, V., Weitenthaler, K., Erdös, L., Berg, C. (2017) Restoration of lowland meadows in Austria: a comparison of five techniques. *Basic and Applied Ecology* 24: 19–29.

22. Palpurina, S., Wagner, V., von Wehrden, H., Hájek, M., Horsák, M., Brinkert, A., Hölzel, N., Wesche, K., Kamp, J., Hájková, P., Danihelka, J., Lustyk, P., Merunková, K., Preislerová, Z., Kočí, M., Kubešová, S., Cherosov M., Ermakov, N., German, D., Gogoleva, P., Lashchinsky, N., Martynenko, V., Chytrý, M. (2017) The relationship between plant species richness and soil pH vanishes with increasing aridity across Eurasian dry grasslands. *Global Ecology and Biogeography* 26: 425–434.

21. Wagner, V., Chytrý, M., Zelený, D., von Wehrden, H., Brinkert, A., Danihelka, J., Jansen, F., Hölzel, F., Kamp, J., Lustyk, P., Merunková, K., Palpurina, S., Preislerová, Z., Wesche, K. (2017) Regional differences in soil pH niche among dry grassland plants in Eurasia. *Oikos* 126: 660–670.

20. Wagner, V., Antunes, P.M., Irvine, M., Nelson, C. (2017) Herbicide usage for invasive non-native plant management in wildland areas of North America. *Journal of Applied Ecology* 54: 198–204.

19. Sengl, P., Magnes, M., Wagner, V., Erdős, L. & Berg, C. (2016) Only large and highly-connected semi-dry grasslands achieve plant conservation targets in an agricultural matrix. *Tuexenia* 36: 167–190.

18. Gibson, A., Espeland, E., Wagner, V., Nelson, C.R. (2016) Can local adaptation research in plants inform selection of native plant materials? An analysis of experimental methodologies. *Evolutionary Applications 9: 1219–1228.*

17. Wagner, V. (2016) A review of software tools for spell-checking taxon names in vegetation databases. *Journal of Vegetation Science* 27: 1323–1327.

16. Berg, C., Essl, F., Wagner, V., Drescher, A. (2016) Temporal trends of alien tree invasions in Austrian woodlands. *Preslia* 88: 185-200.

15. Hirsch, H., Wagner, V., Danihelka, J., Ruprecht, E., Sánchez-Gómez, P., Seifert, M. & Hensen, I. (2015) High genetic diversity declines towards the geographic range periphery of *Adonis vernalis*, a Eurasian dry grassland plant. *Plant Biology* 17: 1233-1241.

14. Sengl, P., Wagner, V. & Magnes, M. (2015) Semi-dry grassland restoration in the SE alpine foreland of Austria - A study of early spontaneous colonisation patterns. *Hacquetia* 14: 97–112.

13. Al-Hawija, B.N., Partzsch, M., Wagner, V. & Hensen, I. (2014) Germination differences between natural and afforested population of *Pinus brutia* and *Cupressus sempervirens*. *Silva Fennica* 48: article id 1176.

12. Maier, S., Schmidt, T.S.B. Zheng, L., Peer, T., Wagner, V., Grube, M. (2014) Analyses of dryland biological soil crusts highlight lichens as an important regulator of microbial communities. *Biodiversity and Conservation* 23: 1735–1755.

11. Wagner, V. & Nelson, C.R. (2014) Herbicides negatively affect seed performance in native plants. *Restoration Ecology* 22: 288–291.

10. Al-Hawija, B.N., Wagner, V. & Hensen, I. (2014) Genetic comparison between natural and planted populations of *Pinus brutia* and *Cupressus sempervirens* in Syria. *Turkish Journal of Agriculture and Forestry* 38: 267–280.

9. Wagner, V., Spribille, T., Abrahamczyk, S., & Bergmeier, E. (2014) Timberline meadows along a 1000km transect in NW North America: species diversity and community patterns. *Applied Vegetation Science* 17: 129–141. - featured on the cover.

8. Durka, W., Nossol, C., Ruprecht, E., Wagner, V., Welk, E. & Hensen, I. (2013) Extreme genetic depauperation and differentiation of both populations and species European feather grasses (*Stipa*). *Plant Systematics and Evolution* 299: 259–269.

7. Wagner, V., Treiber, J., Danihelka, J., Ruprecht, E., Wesche, K. & Hensen, I. (2012) Declining genetic diversity and increasing genetic isolation towards the range periphery of a Eurasian feather grass: A study along a 3000 km longitudinal gradient. *International Journal of Plant Sciences* 173: 802–811.

6. Von Wehrden, H., Fischer, J., Brandt, P., Wagner, V., Kümmerer, K., Kuemmerle, T., Nagel, A., Olsson, O. & Hostert, P. (2012) Consequences of nuclear accidents for biodiversity and ecosystem services. *Conservation Letters* 5 (2): 81–89. – Featured on the cover.

5. Wagner, V., Antunes, P.M., Ristow, M., Lechner, U. & Hensen, I. (2011) Prevailing negative soil biota effect and no evidence for local adaptation in a widespread Eurasian grass. PLoS ONE 6(3): e17580.

4. Wagner, V., von Wehrden, H., Wesche, K., Siderova, T., Fedulin, A. & Hensen, I. (2011) Similar performance in central and range-edge populations of a Eurasian steppe grass under different climate and soil pH regimes. *Ecography* 34: 498–506.

3. Wagner V., Durka W. & Hensen I. (2011) Increased genetic differentiation but no reduced genetic diversity in peripheral *vs*. central populations of a steppe grass. *American Journal of Botany* 98: 1173–1179.

2. Hensen, I., Kilian, C., Wagner, V., Durka, W., Pusch, J. & Wesche, K. (2010) Low genetic variability and strong differentiation among isolated populations of the rare steppe grass *Stipa capillata* L. in central Europe. *Plant Biology* 12: 526–536.

1. Wagner, V. (2009) Eurosiberian meadows at their southern edge: community patterns and phytogeography in the NW Tien Shan. *Journal of Vegetation Science* 20: 199–208.

**Book chapters**

B4. Dawson, W., Blumenthal, D., Čuda, J., Duncan, R.P., Frohlich, D. […] Wagner, V. […] Kortz, A. (in review) Invasive species in grasslands. *Routledge Handbook of Grasslands*.

B3..Wagner, V., Richardson, D.M., Pyšek, P. (2024) Plant Invasions. *In* Scheiner, S.M. (ed) *Encyclopedia of Biodiversity*, 3rd edition, p. 680–695, Elsevier.

B2. Wagner, V., Bragina, T.M., Nowak, A., Smelansky, I.E., Vanselow, K.A. (2020) Grasslands and shrublands of Kazakhstan and Middle Asia. *In* Goldstein, M., DellaSala, D., *The Encyclopedia of the World's Biomes*, Elsevier.

B1. Bragina, T.M., Nowak, A., Vanselow, K.A., Wagner, V. (2018) Grasslands of Kazakhstan and Middle Asia: The Ecology, Conservation and Use of a Vast and Globally Important Area. *In* Squires, V.R., Dengler, J., Feng, H., Hua, L. (eds) *Grasslands of the World: Diversity, Management and Conservation*. CRC Press.

**Journal editorials**

JE9. Sperandii, M.G., Bazzichetto, M., Mendieta-Leiva, G., Schmidtlein, S., Bott, M., de Lima, R.A.F., Pillar, V.D., Price, J.N., Wagner, V. & Chytrý, M. (2024), Towards more reproducibility in vegetation research. *Journal of Vegetation Science* 35: e13224.

JE8. Price, J. N., Wagner, V., Pillar, V. D., & Chytrý, M. (2024). Reflecting on two and a half decades of restoration ecology in Applied Vegetation Science (1998–2023). *Applied Vegetation Science*: 27(1): e12761.

JE7. Wagner, V., Pillar, V.D., Price, J.N., Chytrý, M. (2023) Trends in geographic and gender balance among authors. *Journal of Vegetation Science* 34: e13170.

JE6. Chytrý, M., Pillar, V.D., Price, J.N., Wagner, V., Wiser, S.K., Zelený, D. (2023) The benefits of publishing in society-owned scientific journals. *Applied Vegetation Science* 26: e12705.

JE5. Boch, S., Becker, T., Deák, B., Dengler, J., Wagner, V. (2020) Traditional land use, management and biodiversity of European semi-natural grasslands – Editorial to the 15th EDGG Special Feature. *Tuexenia* 40: 401–407.

JE4. Deák, B., Becker, T., Boch, S., Dengler, J., Wagner, V. (2019) Restoration, monitoring, conservation and phytosociology of semi-natural and natural grasslands in Central Europe – Editorial to the 14th EDGG Special Feature. *Tuexenia* 39: 309–313.

JE3. Deák, B., Becker, T., Boch, S., Wagner, V. (2018) Conservation, management and restoration of semi-natural and natural grasslands in Central Europe – Editorial to the 13th EDGG Special Feature. *Tuexenia* 38: 305–310.

JE2. Deák, B., Wagner, V., Csecserits, A., Becker, T. (2017) Vegetation and conservation of Central-European grasslands - Editorial to the 12th EDGG Special Feature. *Tuexenia* 37: 375–378.

JE1. Becker, T., Csecserits, A., Deák, B., Janišová, M., Sutcliffe, L. & Wagner, V. (2016) Different approaches in grassland analysis - Editorial to the 11th EDGG Grassland Special Feature. *Tuexenia* 36: 287–291.

**Non-refereed articles**

NR3. Wagner, V., Pätsch, R. (2020) The Bedrock Meadows of Lake Pend Oreille. *Sage Notes* 42 (2): 3.

NR2. Wagner, V., Pätsch, R. (2020) Bedrock Meadows: A remarkable habitat type in northwestern Montana. *Kelseya*: 1, 10.

NR1. Spribille, T., Wagner, V. (2016) The starry breck lichen, a dry grassland species on the brink of extinction, gains IUCN status. *Bulletin of the Eurasian Dry Grassland Group* 31: 27–28.

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| **Funding acquisition** |

While at the University of Alberta

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| **Period** | **Funding provider/program** | **Title of grant** | **Applicant(s)/**  **PI(s)** | **Amount,**  **% to Wagner lab, status** |
| 2024-2026 | University of Alberta Rangeland Research Institute: Competitive Grant | The role of cattle as endozoochorous seed dispersers | V. Wagner | $47,560, 100%  awarded |
| 2023-2027 | Natural Sciences and Engineering Council of Canada: Alliance Grant | The invasiveness and ecological impacts of *Caragana*, a widely planted and introduced shrub in the prairie provinces | V. Wagner,  J.F. Cahill | $ 199,615, 80%  awarded |
| 2023-2024 | A.F.W. Schimper Foundation | An assessment of non-native plant invasions across habitats in northern Kazakhstan. | V. Wagner | $ 16,542, 100%  awarded |
| 2021-2023 | Alberta Conservation Association: Biodiversity Grant | A cross-habitat comparison of nutrient availability and levels of invasion in Central Alberta | V. Wagner,  K. Holden | $11,095, 100%  awarded |
| 2021-2023 | Alberta Conservation Association: Biodiversity Grant | Quantifying the role of soil disturbance and propagule pressure as drivers of invasion across three habitat types in central Alberta | V. Wagner,  R. Murillo | $7,710, 100%  awarded |
| 2020-2022 | Alberta Conservation Association: Biodiversity Grant | Local adaptation of plains rough fescue (*Festuca hallii*) to Kentucky bluegrass (*Poa pratensis*) invasion | V. Wagner,  Z. Zapisocki | $2,430, 100%  completed |
| 2019-2026 | Natural Sciences and Engineering Council of Canada: Discovery Grant | Patterns and processes of alien plant invasions across habitats | V. Wagner | $140,000, 100%  awarded |
| 2019-2026 | Natural Sciences and Engineering Council of Canada: Supplement | Patterns and processes of alien plant invasions across habitats | V. Wagner | $12,500, 100%  awarded |
| 2019-2022 | University of Alberta Rangeland Research Institute: Competitive Grant | Large-scale patterns of non-native plant invasions in Alberta grasslands | V. Wagner | $57,690, 100%  completed |
| 2019-2020 | Montana Native Plant Society | Plant diversity in bedrock meadows of north-western Montana | V. Wagner | $1,962  completed |
| 2019-2020 | Idaho Native Plant Society | Plant diversity in bedrock meadows of northern Idaho | V. Wagner | $1,078  completed |

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| **Teaching contribution and responsibilities** |

While at the University of Alberta

**BIOL 208**: Principles of Ecology. Instructor in 2020, 2021, and 2022

**BIOL 395:** Field Course in Biology, Field Botany. Instructor in 2023.

**BIOL 430/530**: (Advanced) Statistical Design and Analysis for Biologists. Instructor since 2018

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| **Service to the University Community** |

**Examining committee member:** Chair of MSc and PhD exam committees (8×), MSc and PhD committee examiner (20×), PhD candidacy examiner (7×)

**Service to the Department**

Member of the Departmental Undergraduate Awards Committee (2024-2025)

Member of the Departmental Course Curriculum Committee (2020-2023)

Member of the Greenhouse Committee (since April 2022)

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| **Service to the Professional Community** |

**Editorial service**

since 2022 Chief Editor, *Applied Vegetation Science*, *Journal of Vegetation Science*

since 2020 Associate Editor, *Vegetation Classification and Survey*

2020–2022 Associate Editor, *Applied Vegetation Science*

2019–2020 Editorial Board Member, *Applied Vegetation Science*

2015–2021 Associate Editor, *Tuexenia*

**Fellowship selection committees**

2021–2023 NSERC Scholarship and Fellowship Selection Committee for Postdoctoral and Doctoral applications, Evolution and Ecology (169)

**Grant reviews**

Alberta Conservation Association (ACA), Estonian Research Foundation, Czech National Science Foundation,

European Research Council (ERC), German Centre for Integrative Biodiversity Research (iDiv), Hungarian Science Foundation, National Center of Science and Technology Evaluation, Natural Sciences and Engineering Research Council of Canada (NSERC)

**Academic community leadership**

since 2019 Carbon Footprint committee member, International Association of Vegetation Science

since 2024 Diversity, Equity and Inclusion committee member, International Association of Vegetation Science

2023–2027 Council member, International Association of Vegetation Science

2019–2023 Council member, International Association of Vegetation Science

2022–3024 Lead of the International Union for Conservation of Nature Holarctic Steppes group

2019–2023 Lead of the Social Media and Website committee, International Association of Vegetation Science

**Journal article reviews**

*Applied Vegetation Science*, *Basic and Applied Ecology*, *Biodiversity and Conservation*, *Ecography*, *Ecological Solutions and Evidence*, *Flora*, *Forest Ecology and Management*, *Grassland Research*, *Journal of Vegetation Science*, *Journal of Applied Ecology*, *Lichenologist*, *Phytocoenologia*, *Plant Ecology*, *Plant and Soil*, *Rangeland Ecology and Management*, *Restoration Ecology*, *Science of the Total Environment*, *Vegetation Classification and Survey*, *Western Naturalist*.

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| **Media coverage** |

A Canadian Province Killed 463 Wolves for No Good Reason. ***The Atlantic***, July 14, 2020. https://www.theatlantic.com/science/archive/2020/07/how-simple-statistical-error-killed-463-wolves/614134/

Killing nearly 500 wolves in a year failed to protect endangered caribou – study. ***The Guardian***, July 14, 2020. https://www.theguardian.com/environment/2020/jul/14/wolf-culls-do-not-protect-caribou-new-study-shows-aoe

Wolf culls will not save endangered caribou in Western Canada, new study finds. ***CBC***, July 15, 2020.

Statistical flaws led to B.C. wolf cull which didn’t save endangered caribou as estimated. ***Victoria News***, July 14, 2020. https://www.cbc.ca/news/canada/british-columbia/wolf-cull-endangered-caribou-western-canada-1.5650167

UM researchers find lack of government accountability on widespread herbicide use on public land. ***Missoulian***. July 6, 2016. https://missoulian.com/news/local/um-researchers-find-lack-of-government-accountability-on-widespread-herbicide-use-on-public-land/article\_a13ac9e9-f535-51ef-a8ce-b398b6c29e62.html

UM researchers find lack of government accountability on widespread herbicide use on public land. ***Billings Gazette***, July 7, 2016. https://billingsgazette.com/news/state-and-regional/montana/um-researchers-find-lack-of-government-accountability-on-widespread-herbicide/article\_63410599-6b7e-5665-9d20-3a3b38a0089a.html

Monsanto Roundup Is Used on Wildlands, but No One Knows How Much. ***TakePart***, July 8, 2016, http://www.takepart.com/article/2016/07/08/monsantos-roundup-being-sprayed-willdlands-too

Research reveals widespread herbicide use on North American wildlands. **EurekAlert**. July 29, 2016.

https://www.eurekalert.org/pub\_releases/2016-06/tuom-rrw062916.php

Research Reveals Widespread Herbicide Use on North American Wildlands. ***Lab Manager***, June 28, 2016. https://www.labmanager.com/news/research-reveals-widespread-herbicide-use-on-north-american-wildlands-9412

Research reveals widespread herbicide use on North American wildlands. ***Science Daily***, June 29, 2016. https://www.sciencedaily.com/releases/2016/06/160629135806.htm

Herbicides used widely on federal, tribal wildlands, study says. ***UPI***, June 29, 106. https://www.upi.com/Science\_News/2016/06/29/Herbicides-used-widely-on-federal-tribal-wildlands-study-says/8351467224796/