

CURRICULUM VITAE

University of Idaho

NAME: Alexander Maas

RANK OR TITLE: Assistant Professor

DEPARTMENT: Agricultural Economics and Rural Sociology

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OFFICE LOCATION AND CAMPUS ZIP:

39c Ag. Sciences
Moscow, Idaho 83844

DATE OF FIRST EMPLOYMENT AT UI: 8/2017

DATE OF TENURE: 2022 (Anticipated)

DATE OF PRESENT RANK: 3/2017

EDUCATION BEYOND HIGH SCHOOL:

- 2016** **COLORADO STATE UNIVERSITY.** Fort Collins, CO
PhD in Agricultural and Resource Economics
Dissertation: *Human Behavior in the Context of Water Scarcity*
- 2011** **UNIVERSITY OF CONNECTICUT.** Storrs, CT
Master of Science in Agricultural and Resource Economics
- 2006** **BOSTON UNIVERSITY.** Boston, MA
Bachelor of Science in English Education

EXPERIENCE:

- 2017-current** **UNIVERSITY OF IDAHO**
DEPARTMENT OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY
2017: 70% Research, 25% Teaching, 5% Service
2018: 70% Research; 30% Teaching
2019-current: 60% Research, 30% Teaching, 5% Service, 5% Outreach
- 2016** **COLORADO STATE UNIVERSITY**
DEPARTMENT OF ENVIRONMENTAL AND CIVIL ENGINEERING
Research Scientist

TEACHING ACCOMPLISHMENTS: (Academic and Extension teaching)

Areas of Specialization: Resource Economics and Interdisciplinary Research

Courses Taught: (title, course number, date(s))

Course Title	Course Number	Dates
The Business of Agriculture	AGEC 101	Fall 2018
Advanced Agribusiness Management	AGEC 478	Spring 2018
Managerial Economics: Production	AGEC 301	Spring 2019, 2020, 2021, 2022
Water Economics and Policy Analysis	WR/AGEC 452/552	Spring 2019, 2020, 2021, 2022
Interdisciplinary Methods in Water Resources / Fundamentals of Research	WR/NRS 506	Fall 2019, 2020, 2021

Students Advised:

Undergraduate Students: (advisees per semester)

Spring 2018: 6
 Fall 2018: 8
 Spring 2019: 9
 Fall 2019: 10
 Spring 2020: 10
 Fall 2020: 6
 Spring 2021: 7
 Fall 2021: 7
 Spring 2022: 7

Graduate Students Advised, Degree, Graduation year:

Advised to completion

Roshan Puri, MS, 2019
 Koroles Awad, MS 2020
 Henry Wilson, MS, 2020

Current

Kusum Adhikari, MS, 2023
 Kati Burton, MS, 2024
 Colburn Field, MS, 2024

Served on Graduate Committee

Advised to completion

Dalyn McCauley, MS, 2019
 Evelyn Lemgo, MS, 2020

Current

Susmita Chowdhury, MS, 2022
 Alexander Nagel, PhD, 2024
 Eric Winford, PhD, 2024

Courses Developed:

AGEC 452/552: (3 Credits) Water Economics and Policy Analysis (Developed)
 AGECE 301: (3 Credits) Managerial Economics: Production (Reworked)
 AGECE 478: (3 Credits) Advanced Agribusiness Management (Reworked)
 WR 506/ NRS 506: (2-3 Credits) Interdisciplinary Methods in Water Resources (Reworked)

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Guest Lectures and Seminars given at: Washington State University, University of Idaho, Colorado State University, University of Rhode Island, Utah State University

Honors and Awards:

S. Lee Gray Scholarship for Excellence in Teaching, Colorado State University, Awarded 2015.

SCHOLARSHIP ACCOMPLISHMENTS: (Including scholarship of teaching and learning, artistic creativity, discovery, and application/integration)

Publications, Exhibitions, Performances, Recitals:

Refereed/Adjudicated: (i.e., books, book chaps., journals, proc., abstr., etc.; provide citations-author, date, title, publisher)

1. Manning, D., J. Burkhardt, C. Goemans, A. Maas. 2021. “An Analysis of the Impact of Drought on Agriculture, Local Economies, Public Health, and Crime Across the Western United States”. Funded by NOAA-NIDIS. <https://www.drought.gov/documents/analysis-impact-drought-agriculture-local-economies-public-health-and-crime-across>
2. Maas, A. 2021 Tourism and Recreation in “Idaho Climate-Economy Impacts Assessment” sponsored by the McClure Center. <https://www.uidaho.edu/president/direct-reports/mcclure-center/iceia/recreation-and-tourism>
3. Maas, A. and K. Awad. 2019. “Water Supply Preferences in the Palouse Aquifer Region”. Palouse Basin Aquifer Committee
4. Goemans, C. and A. Maas. 2016. “Northern Water Conservancy District” in Ronald Griffin’s Water Resource Economics: The Analysis of Scarcity, Policy, and Projects. MIT Press.
5. Bravo-Ureta, B., A. Maas, L. Diouf, A. Ndoye. 2011. An Analysis of Human Capital Needs in Senegal. Report for USAID.

Peer Reviewed/Evaluated: (i.e., journals, articles, proceedings, abstracts, etc.)

* Denotes advisee/mentee publication

¹ Denotes senior/first author

1. Adhikari, K., Maas, A., & Trujillo-Barrera, A. (2023). Revisiting the effect of recreational marijuana on traffic fatalities. *International Journal of Drug Policy*, 115, 104000. <https://doi.org/10.1016/j.drugpo.2023.104000>
2. Becker, D. A., Maas, A., Bayham, J., & Crooks, J. (2022). The unintended benefits of the Conservation Reserve Program for air quality. *GeoHealth*, 6(10), <https://doi.org/10.1029/2022GH000648>.
3. *Burton, K., A. Maas, and K. Lee. 2021. “The Temporal and Spatial Extent of Property Value Losses Following a Freshwater Chemical Spill”. *Journal of Agricultural and Resource Economics*. (Forthcoming)
4. ¹Maas, A., L. Lu. 2020. “Elections have Consequences: Partisan Politics may be Literally Killing us”. *Applied Health Economics and Health Policy*, 19:45–56. <https://doi.org/10.1007/s40258-020-00621-5>
5. *Awad, K., A. Maas, and C. Wardropper. 2021. “Preferences for Alternative Water Supplies in the Pacific Northwest: A Choice Experiment.” *Journal of Water Resources Planning and Management*, 147(4). [https://doi.org/10.1061/\(ASCE\)WR.1943-5452.0001342](https://doi.org/10.1061/(ASCE)WR.1943-5452.0001342)
6. ¹Maas, A., Wardropper, C., Roesch-McNally, G., & Abatzoglou, J. 2020. “A (mis)alignment of farmer experience and perceptions of climate change in the US inland Pacific Northwest.” *Climatic Change*, 1-19. <https://doi.org/10.1007/s10584-020-02713-6>
7. *Puri, R. and A. Maas. 2020. “Evaluating the Sensitivity of Residential Water Demand Estimation to Model Specification and Instrument Choices.” *Water Resources Research*. <https://doi.org/10.1029/2019WR026156>
8. ¹Maas, A., J. Burkhardt, C. Goemans, D. Manning, M. Arabi. 2020. “Complements of the house: Estimating demand-side linkages between residential water and electricity.” *Water Resources & Economics*. <https://doi.org/10.1016/j.wre.2019.02.001>

9. Flyr, M., J. Burkhardt, C. Goemans, L. Hans, A. Neel, A. Maas. 2019. "Modelling Commercial Demand for Water: Exploring Alternative prices, Instrumental Variables, and Heterogeneity." *Land Economics*, 95(2):211–224. <https://doi.org/10.3368/le.95.2.211>
10. ¹Maas, A., P. Watson. 2018. "Enthusiasm curbed: Home value implications of curbside parking rights." *Land Use Policy*, 77: 705–11. <https://doi.org/10.1016/j.landusepol.2018.06.027>
11. Grigg, Neil. T. Connor, A. Maas. 2018. "Financing Integration of Urban Water Systems: From Service Provision to Resource Management." *Public Works Management & Policy*, 2: 186-98. <https://doi.org/10.1177/1087724X17732789>
12. Manning, D., C. Goemans, A. Maas. 2017. "Producer Responses to Surface Water Availability and Implications for Climate Change Adaptation." *Land Economics*, 93: 608-630. <https://doi.org/10.3368/le.93.4.631>
13. ¹Maas, A., S. Kroll, T. Brown, D. Manning, C. Goemans. 2017. "Dilemmas, Coordination and Defection: How Uncertain Tipping Points Induce Common Pool Resource Destruction." *Games and Economic Behavior*, 104: 760–774. <https://doi.org/10.1016/j.geb.2017.06.009>
14. ¹Maas, A., Connor, T., & Grigg, N. (2017). What Now? An Overview of Urban Water Infrastructure in the USA. *Regions Magazine*, 306(1), 16-17.
15. ¹Maas, A., D. Manning, C. Goemans, Stephan Kroll. 2017. "Evaluating the Effect of Personal and Environmental Motivations on Water Demand." *Journal of Environmental Management*. 196: 394-401. <https://doi.org/10.1016/j.jenvman.2017.03.008>
16. ¹Maas, A., A. Dozier, D. Manning, C. Goemans. 2017. "Allocation Institutions and the Value of Stored Water in a Changing Environment." *Water Resources Research*, 53(1): 672-687. <https://doi.org/10.1002/2016WR019239>
17. Reddy, S.M.W., R. I. McDonald, A. Maas, A. Rogers, E. H. Girvetz, J. Molnar, T. Finley, G. Leathers, and J. L. DiMuro. 2015. "Industrialized Watersheds Have Elevated Risk and Limited Opportunities to Mitigate Risk through Water Trading." *Water Resources and Industry*, 11: 27-45. <https://doi.org/10.1016/j.wri.2015.04.001>
18. Reddy, S.M.W., G. Guannel, R. Griffin, J. Faries, T. Boucher, M. Thompson, J. Brenner, J. Bernhardt, G. Verutes, A. Maas, and S. A. Wood. 2015. "Evaluating the Role of Coastal Habitats and Sea-level Rise in Hurricane Risk Mitigation: An Ecological Economic Assessment Method and Application to a Business Decision." *Integrated Environmental Assessment and Management*, 12(2): 328-44. <https://doi.org/10.1002/ieam.1678>
19. Reddy, S. M.W., R. I. McDonald, A. Maas, A. Rogers, E. H. Girvetz, J. North, J. Molnar, and J. L. DiMuro. 2015. "Finding Solutions to Water Scarcity: Incorporating Ecosystem Service Values into Business Planning at The Dow Chemical Company's Freeport, TX Facility." *Ecosystem Services*, 12: 94-107. <https://doi.org/10.1016/j.ecoser.2014.12.001>

Presentations and Other Creative Activities:

- 2022 "Recreation and Tourism" Payette Land Trust & Idaho Business for the Outdoors
- 2022 "State of Water Resources" U of I Water Workshop
- 2020 "Preference of Water Supplies" Palouse Basin Aquifer Committee
- 2019 "Value and Valuation Methods" Palouse Basin Aquifer Committee
- 2018 "Valuing Natural Resources" Idaho Department of Lands, Spring Meeting

Professional Meeting Papers, Workshops, Showings, Recitals:

- 2022 "An Exploration of Preferences for Soil Health Practices in Potato Production" American

- Agricultural Economics Association, Annual Meeting, Anaheim, CA
- 2022 "The Unintended Benefits of the Conservation Reserve Program for Air Quality" American Agricultural Economics Association, Annual Meeting, Anaheim, CA
- 2021 "PM2.5: a Matter of CRP In particular". University of Rhode Island Seminar Series
- 2021 "State of Water Resources in Idaho" W4190 Annual Meeting
- 2020 "Elections have Consequences" American Agricultural Economics Association, Annual Meeting (Virtual due to COVID)
- 2019 "Other-regarding Behavior when Common Pool Resources Have Tipping Point" Western Agricultural Economics Association, Annual Meeting, Coeur d'Alene, ID
- 2019 "Complements of the house: Estimating demand-side linkages between residential water and electricity" American Geophysical Union Hydrology Days, Fort Collins, CO
- 2019 "If You're not First You're Last: Extraction Rates and Order when Common Pool Resources Have Tipping Points" Washington State University Seminar Series
- 2018 "Enthusiasm curbed: Home Value Implications of Curbside Parking Rights" Western Agricultural Economics Association, Annual Meeting, Anchorage, AK
- 2018 "Redistributing Wealth to the Wealthy: A Parking Story" Washington State University Seminar Series, Pullman, WA
- 2018 "Redistributing Wealth through Parking Policy" Eastern Economics Association, Annual Meeting, Boston, MA
- 2015 "The Effect of Water Institutions on the Value of Water Storage in the West: Lessons from the Colorado-Big Thompson Project" Western Agricultural Economics Association, Annual Meeting, San Francisco, CA
- 2014 "Water: Allocation and valuation strategies under increasing scarcity" American Geophysical Union Hydrology Days, Fort Collins, CO

Presentations by Advisees

- 2021 Burton, K. and A. Maas. "The Temporal and Spatial Extent of Property Value Losses Following a Freshwater Chemical Spill" Universities Council on Water Resources Annual Meeting (Virtual due to COVID).
- 2020 Awad, K. and A. Maas. "Preferences for Alternative Water Supplies in the Pacific Northwest: A Discrete Choice Experiment" Urban Innovation Network. Annual Meeting. Fort Collins, CO
- 2019 Puri, R and A. Maas. "Evaluating the Sensitivity of Residential Water Demand Estimation to Model Specification and Instrument Choices" Universities Council On Water Resources Annual Meeting. Snowbird, UT.
- 2019 Puri, R and A. Maas. "Evaluating the Sensitivity of Residential Water Demand Estimation to Model Specification and Instrument Choices. Western Agricultural Economics Association, Annual Meeting. Coeur d'Alene, ID

Grants and Contracts Awarded:

<i>Year Awarded</i>	<i>Agency, Title. PI/PD</i>	<i>Spending Authority (Approximately)</i>	<i>Total</i>
2021	USDA-NIFA-REC: Advancing tribal food system-based economic development in northern Idaho PIs: Darin Saul <i>et al.</i> Dates: 3/2022-2/2026	\$140,000	\$650,000
2020	USDA-NIFA-FAS: Agricultural Practices & Policies: Particulate Matter and Rural Health PIs: Alexander Maas, Jude Bayham Dates: 10/2020-8/2023	\$140,000	\$199,974
2020	Development Of Sustainable System-Based Management Strategies For Two Vector-Borne, Tuber Necrotic Viruses PIs: Alexander Karasev <i>et al.</i> Dates: 9/2020-8/2024	\$13,900	\$5,756,299
2020	CREEP STOP: Integrating biological, cultural, and mechanical/physical tools for long-term suppression of creeping perennial weeds in Northern Great Plains and Pacific Northwest Cropping Systems PIs: Kate Fuller <i>et al.</i> Dates: 10/2020-8/2022	\$19,000	\$1,999,995
2020	USDA-NIFA-SAS: Creating a new bioeconomy for dairies to increase nutrient recycling, enhance productivity of crops, & stimulate prosperity in rural America. PIs: Mark McGuire <i>et al.</i> Dates: 9/2020-8/2025	\$119,000	\$9,999,531
2020	LCLUC Step-1: Understanding the socioeconomic drivers of agricultural land abandonment and associated fire risk in Greece PIs: Aaron Sparks <i>et al.</i> Dates: 01/2021-01/2024	\$9,362	\$449,905
2020	Presidential Initiative on Water and Sustainability (ORED/IWIRRI): Connecting and Developing the University of Idaho Through Stakeholder Integration and Direction PIs: Alexander Maas, Laurel Lynch	\$6,500	\$6,500
2019	Multi-State Hatch: W4190 PIs: Alexander Maas <i>et al.</i> Dates: 10/2019-10/2024	\$9,000	--
2018	USDA-NIFA-SCRI: The Potato Soil Health Project PIs: Carl Rosen, Christopher McIntosh, Alexander Maas <i>et al.</i> Dates: 9/2018-8/2023	\$75,349	\$8,033,029

<i>Year Awarded</i>	<i>Agency, Title. PI/PD</i>	<i>Spending Authority (Approximately)</i>	<i>Total</i>
2018	USGS 104b. IWIRRI. Grant Agreement Number: G16AP0050 PIs: Alan Kolok, Alexander Maas	\$14,754	\$92,335
2018	NSF-SRN: Urban Water Innovation Network PIs: Arabi Mazdak, Alexander Maas <i>et al.</i> Dates: 8/2015-7/2022	\$96,500	\$12,697,836
2017	Multi-State Hatch: W3190 PIs: Alexander Maas <i>et al.</i> Dates: 10/2014-10/2019	\$1,800	--
TOTAL AWARDED		\$645,165	\$41,897,884

Honors and Awards:

2018 Outstanding Published Research, Western Agricultural Economics Association
 2015 Dr. Robert Young Scholarship in Water Economics, Colorado State University
 2013 Roy Award for Environmental Partnership, Kennedy School of Government

SERVICE:

Major Committee Assignments: (National, State, District, County, University, College, Departmental and dates)

2022 CALS: APACC Committee
 2022 CALS: Search Committee Area Educator (Range)
 2022 LAW: Search Committee Postdoctoral Search
 2021 CALS: APACC Committee
 2021 CALS: Search Committee Information Officer
 2020 CALS: APACC Committee
 2020 CALS: WR Director Search Committee
 2020 U of I: Search Committee Postdoctoral for the McClure center
 2019 CALS: Financial Administration Search Committee
 2018 CALS: WR Curriculum Committee
 2018 CALS: WR Director Search Committee
 2018 CALS: Bylaws for Promotion & Tenure Committee Meeting

Professional and Scholarly Organizations (including memberships, committee assignments, editorial services, offices held and dates)

2022 American Agricultural Economics Association, Annual Meeting, Abstract Reviewer
 2022 Western Water Network, Member
 2022 Western Agricultural Economics Association, Outstanding Publication, Reviewer
 2021 National Science Foundation, Panel Review
 2021 Western Agricultural Economics Association, Annual Meeting, Abstract Reviewer
 2020 National Science Foundation, Panel Review
 2020 Western Agricultural Economics Association, Annual Meeting, Abstract Reviewer
 2020 USDA-NIFA-ENRE, Panel Review

- 2019 Hatch Multistate Research, Group W4190, Chair
- 2019 Hatch Multistate Research, Group W3190, Vice-Chair
- 2019 Western Agricultural Economics Association, Annual Meeting, Topic Leader
- 2019 American Agricultural Economics Association, Annual Meeting, Abstract Reviewer
- 2019 University Council of Water Resources, Dissertation Award Committee
- 2019 National Science Foundation, Panel Review
- 2018 Western Agricultural Economics Association, Annual Meeting, Abstract Reviewer
- 2018 Secretary, Hatch Multistate Research, Group W3190

Peer-reviewed articles for:

- Journal of Economic Surveys* (Impact Factor: 3.18)
- Water Resources and Economics* (Impact Factor: 1.85)
- Land Use Policy* (Impact Factor: 3.68)
- Water Resources Research* (Impact Factor: 4.36)
- Environmental Science and Pollution Research* (Impact Factor: 3.06)
- Journal of Environmental Management* (Impact Factor: 5.68)
- Journal of Water Resources Planning and Management* (Impact Factor: 3.40)
- Applied Economics* (Impact Factor: 0.96)
- Review of Economics of the Household* (Impact Factor: 1.19)
- Applied Economic Perspectives & Policy* (Impact Factor: 2.78)
- Agricultural Economics* (Impact Factor: 1.55)
- Journal of the American Water Resources Association* (Impact Factor: 2.47)
- Environmental Management* (Impact Factor 2.81)

Outreach Service: (Including popular press, interview articles, newspaper articles, workshops-seminars-tours organized, Extension impact statements)

Advisory/Steering Boards and Committees

- 2020 Member of the Water Efficiency Advisory Board for the *Potato Sustainability Alliance*
- 2016 Member of the Fort Collins Water Board, Advisory Board for City Council

Presentations to Organizations/Agencies

- 2022 “Recreation and Tourism” Payette Land Trust & ID Business for the Outdoors, Speaker
- 2022 “State of Water Resources” U of I Water Workshop, Moderator
- 2020 “Preference of Water Supplies” Palouse Basin Aquifer Committee, Speaker
- 2019 “Value and Valuation Methods” Palouse Basin Aquifer Committee, Speaker
- 2018 “Valuing Natural Resources” Idaho Department of Lands, Spring Meeting, Speaker

Featured in Popular Press:

- Periodic Interviewed for background by: *Idaho News 6*, *Boise State Public Radio*, and *Spokesman-Review*
- 2019 *Spokesman-Review*. “Water usage continues to decline in Pullman, Moscow” Oct. 11
- 2019 *High Country News*. “In need of water, an Idaho town turns to its neighbors”. Feb. 6
- 2018 “The value of stored water and trading in the west: Lessons from the Colorado Big Thompson”. *Colorado Water*. September/October Issue.