

Curriculum Vitae – M. Anowarul (Anowar) Islam

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Education:

- Ph.D.** Agriculture (Agronomy), University of Sydney, Australia, 2003
Title of the dissertation:
Responses of accessions of *Austrodanthonia* spp. to factors associated with soil acidity. Ph.D. dissertation. The University of Sydney, Australia. Available at <http://ses.library.usyd.edu.au/handle/2123/502> (verified October 6, 2026; file viewed and downloaded by worldwide viewers = 9,331).
- M.S.** Agronomy-Soil Fertility, Institute of Postgraduate Studies in Agriculture, Bangladesh, 1996
Title of the thesis:
Growth and yield response of onion to different sources of potash and their fertilization method. M.S. thesis. Institute of Postgraduate Studies in Agriculture, Bangladesh.
- B.S.** Agriculture (major subjects-Agronomy, Crop Science, Soil Science, Animal Husbandry, Genetics and Plant Breeding), Bangladesh Agricultural University, 1990

Professional, Academic, and Administrative Experience:

- Sep 2023-present ***Department Head and Professor***, Department of Plant and Environmental Sciences and Department of Extension Plant Sciences (**2 Departments**), New Mexico State University, Las Cruces, New Mexico
- Oct 2023-present ***Adjunct Professor***, Department of Plant Sciences, University of Wyoming, Laramie, Wyoming
- Jul 2019-Aug 2023 ***Assistant Department Head and Budget & Space Coordinator***, Department of Plant Sciences, University of Wyoming, Laramie, Wyoming
- Jul 2019-Aug 2023 ***Professor and State Extension Specialist***, Department of Plant Sciences, University of Wyoming, Laramie, Wyoming
- Jul 2014-Jun 2019 ***Associate Professor and State Extension Specialist***, Department of Plant Sciences, University of Wyoming, Laramie, Wyoming
- Mar-Aug 2016 ***Visiting Professor***, Lethbridge Research Center, Agriculture and Agri-Food Canada, Lethbridge, Alberta, Canada
- Jun-Aug 2015 ***Visiting Professor***, Field Science Center for Northern Biosphere, Hokkaido University, Sapporo, Hokkaido, Japan
- Jun 2008-Jun 2014 ***Assistant Professor and State Extension Specialist***, Department of Plant Sciences, University of Wyoming, Laramie, Wyoming

Oct 2005-May 2008 **Postdoctoral Researcher, Forage Agronomist**, The Samuel Roberts Noble Foundation (Noble Research Institute), Ardmore, Oklahoma

Dec 2004-Oct 2005 **Postdoctoral Research Fellow**, Department of Agronomy, University of Sydney, Sydney, Australia

Nov 2002-Nov 2004 **Postdoctoral Research Fellow**, Laboratory of Grassland Ecology and Systems, University of Miyazaki, Miyazaki, Japan

Sep 1998-Nov 2002 **Research Fellow**, Department of Primary Industries, NSW, Australia

Mar 2000-Dec 2000 **Research Assistant** (Part-time), Department of Primary Industries, NSW, Australia

Nov 1996-Sep 1998 **Teaching Assistant**, Department of Crop Sciences, University of Sydney, Sydney, Australia

Aug 1990-Feb 1996 **Research Scientist**, Bangladesh Agricultural Research Institute, Dhaka, Bangladesh

Jan 1990-Aug 1990 **Junior Executive Officer (Agronomy)**, Bangladesh Agricultural Development Corporation, Dhaka, Bangladesh

Awards and Honors:

- *Aggie Leadership Training Academy Certificate*, New Mexico State University, 2025
- *Past President*, Western Society of Crop Science, 2023-2025
- *President*, Western Society of Crop Science, 2021-2023
- Nominated and recognized for Distinguished Graduate Faculty Mentor Award, University of Wyoming, 2022.
- Received *Outstanding Research Achievement Award* of Wyoming Agricultural Experiment Station, 2021
- *President-Elect*, Western Society of Crop Science, 2019-2021
- *Associate Editor*, Agronomy Journal, 2018-2022
- *Guest Editor*, Sustainability, Special Issue (an International Journal; Impact Factor 3.9), Agroecology: Principles and Application for Efficient and Sustainable Agricultural Production, 2017-2019
- Nominated for *Outstanding RSO Advisor Award* for exceptional work in the Bangladesh Students' Association at the University of Wyoming, 2018
- Received *Outstanding Extension Educator Award* in the College of Agriculture and Natural Resources and University of Wyoming Extension, University of Wyoming, 2017
- Visiting Professor, Lethbridge Research Center, Agriculture and Agri-Food Canada, Lethbridge, Alberta, Canada, 2016
- *President*, Gamma Sigma Delta UW Chapter, the Honor Society of Agriculture, 2015-16
- Visiting Professor and Fellowship Award, Hokkaido University, Japan, 2015
- Nominated for the Wyoming Agricultural Experiment Station 2014 Early Career Research Achievement Award, University of Wyoming, 2014
- The Northwest Area Educator Awards, Five Years in Extension Recognition, University of Wyoming Extension, 2013
- JSPS BRIDGE Fellowship Award, Japan Society for the Promotion of Science (JSPS), Tokyo, Japan, 2013-2014.
- Early Career Service Award for Professional Excellence in Extension and Research, Epsilon Sigma Phi (ESP), University of Wyoming, 2011

- Australian Academy of Science and Japanese Society for the Promotion of Science Award (2002-2004)
- UPA (University Postgraduate Award) - University of Sydney, Australia (1998-2002)
- James Kentley Memorial Scholarship - The University of Sydney, Australia (2000)
- G.H.S. and I.R. Lightoller Scholarship - The University of Sydney, Australia (2000)
- JICA (Japan International Cooperation Agency) Merit Scholarship - Institute of Postgraduate Studies in Agriculture, Bangladesh (1994-1996)
- University Merit Scholarship - Bangladesh Agricultural University (1984-1989)
- Faculty Scholarship - Bangladesh Agricultural University (1984-1988)

Professional Memberships:

- American Society of Agronomy
- Crop Science Society of America
- Soil Science Society of America
- American Forage and Grassland Council
- Western Society of Crop Science
- US-JSPS (United States-Japan Society for the Promotional Science)
- Epsilon Sigma Phi (ESP) (Extension Professionals' Organization)
- Gamma Sigma Delta, the Honor Society of Agriculture

Publications:

Peer-Reviewed Journal Articles (55 total; *graduate student):

55. **Islam, M. A.**, and Baidoo, M. M.* 2026. Agronomic and economic responses of reduced-lignin and conventional alfalfa to potassium. *Crop, Forage, & Turfgrass Management*, in press.
54. Munkaila, M.*, and **Islam, M. A.** 2025. Productivity and economic implications of alfalfa–grass mixtures under variable irrigation. *Agronomy Journal*, 117, e70070. <https://doi.org/10.1002/agj2.70070>
53. **Islam, M. A.**, and Baidoo, M. M.* 2025. Decade-long persistence, production, and profitability of tall fescue–alfalfa mixtures and nitrogen-fertilized tall fescue. *Agronomy Journal*, 117, e70124. <https://doi.org/10.1002/agj2.70124>
52. Baidoo, M. M.*, **Islam, M. A.**, Atiemo, M. B., Munkaila, M., and Shilpakar, C. (2025). Phosphorus and potassium management in alfalfa production under varied calcium and magnesium soil conditions with harvesting regimes. *Crop Science*, 65, e70065. <https://doi.org/10.1002/csc2.70065>
51. Baidoo, M. M.*, and **Islam, M. A.** 2025. Phosphorus–potassium interactions with calcium, magnesium, and harvest timing in alfalfa production systems. *Agronomy Journal*, 117, e21743. <https://doi.org/10.1002/agj2.21743>
50. Baidoo, M. M.*, and **Islam, M. A.** 2025. Optimizing potassium applications and harvest strategies to boost productivity of depleting alfalfa stands. *Agronomy Journal*, 117, e21724. <https://doi.org/10.1002/agj2.21724>
49. Herreid, J.S.*, Lee, B., **Islam, M. A.**, Ritten, J. and Jabbour, R. 2025. Alfalfa harvest timing impacts on alfalfa weevil with agronomic and economic contexts. *Crop Protection*, 191,

107134.

<https://www.sciencedirect.com/science/article/pii/S0261219425000262?via%3Dihub>

48. Shilpakar, C. *, Yang, D., Holbrook, D. L., Norton, U., and **Islam, M. A.** 2025. Impact of Grazing Duration and Environment on Soil Carbon in Reclaimed Uranium Mines Tailings: A Region Specific Study. *Land Degradation & Development*, 36, 4474–4485. <https://doi.org/10.1002/ldr.5647>
47. Baidoo, M. M.* and **Islam, M. A.** 2024. Potassium and harvest time interaction effect on alfalfa production and profitability. *Agronomy Journal*, 116, 1670–1687. <https://doi.org/10.1002/agj2.21575>
46. Carr, P.M., Bell, J.M., Boss, D.L., DeLaune, P., Eberly, J.O., Edwards, L., Fryer, H., Graham, C., Holman, J., **Islam, M.A.**, Liebig, M., Miller, P.R., Obour, A., Xue, Q. 2021. Annual forage impacts on dryland wheat farming in the Great Plains. *Agronomy Journal*. doi. 10.1002/agj2.20513.
45. Khatiwada, B., Acharya, S.N., Larney, F.J., Lupwayi, N.Z., Smith, E.G., **Islam, M.A.**, Thomas, J.E., and Poudel, H.P. 2020. Pasture rejuvenation using sainfoin and cicer milkvetch in western Canada. *Agronomy Journal*. doi: 10.1002/agj2.20466.
44. Khatiwada, B., Acharya, S.N., Larney, F.J., Lupwayi, N.Z., Smith, E.G., **Islam, M.A.**, and Thomas, J.E. 2020. Benefits of mixed grass–legume pastures and pasture rejuvenation using bloat-free legumes in western Canada: a review. *Canadian Journal of Plant Science*. 100:463–476. doi.org/10.1139/cjps-2019-0212.
43. Nilahyane, A. *, **Islam, M.A.**, Mesbah, A.O., Herbert, S.K., and Garcia y Garcia, A. 2020. Growth, water productivity, nutritive value, and physiology responses of silage corn to water stress. *Agronomy Journal*. 112:1625–1635. doi: 10.1002/agj2.20015.
42. **Islam, M.A.** and Adjesiwor, A.T.* 2020. Nitrogen fertilization in tall fescue: Productivity, agronomic efficiency and relative profitability. *Grassland Science*. 66:67–73. doi: 10.1111/grs.12261.
41. Homer, A. *, **Islam, M.A.**, Krall, J.M., Nachtman, J.J., and Groose, R.W. 2019. Registration of ‘WyoWinter’ Feed Pea for the US Central Great Plains. *Journal of Plant Registrations*. 13:128–133. doi:10.3198/jpr2018.07.0047crc.
40. Aryal, P.* and **Islam, M.A.** 2019. Establishment of forage kochia in seeding mixtures with perennial grasses. *Grassland Science*. 65:147–154. doi: 10.1111/grs.12228.
39. Aryal, P.* and **Islam, M.A.** 2018. Effect of forage kochia on seedling growth of cheatgrass (*Bromus tectorum*) and perennial grasses. *Invasive Plant Science and Management*. 11:201–207. doi: 10.1017/inp.2018.27.
38. **Islam, M.A.** and Ashilenje, D.* 2018. Diversified forage cropping systems and their implications on resilience and productivity. *Sustainability*. 10, 3920; doi:10.3390/su10113920.
37. Nilahyane, A. *, **Islam, M.A.**, Mesbah, A.O., and Garcia y Garcia, A. 2018. Effect of irrigation and nitrogen fertilization strategies on silage corn grown in semi-arid conditions. *Agronomy*. 8, 208; doi:10.3390/agronomy8100208.
36. Dhakal, D.* and **Islam, M.A.** 2018. Grass-legume mixtures for improved soil health in cultivated agroecosystem. *Sustainability*. 10, 2718; doi:10.3390/su10082718.
35. Nilahyane, A. *, **Islam, M.A.**, Mesbah, A.O., and Garcia y Garcia, A. 2018. Evaluation of silage corn yield gap: An approach for sustainable production in the semi-arid region of USA. *Sustainability*. 10, 2523; doi:10.3390/su10072523.

34. Tracy, B.F., Foster, J.L., Butler, T.J., **Islam, M.A.**, Toledo, D., and Vendramini, J.M.B. 2018. Resilience in Forage and Grazinglands. *Crop Science*. 58:31–42. doi: 10.2135/cropsci2017.05.0317.
33. Adjewi, A.T.*, **Islam, M.A.**, Zheljaskov, V.D., Ritten, J.P., and Garcia y Garcia, A. 2017. Grass-legume seed mass ratios and nitrogen rates affect forage accumulation, nutritive value, and profitability. *Crop Science*. 57:2852-2864. doi:10.2135/cropsci2016.09.0776.
32. **Islam, M.A.**, Obour, A.K., Rule, D., Bandara, M., and Acharya, S. 2017. Forage and seed production potential, nutritive value, and fatty acid profile of fenugreek. *Crop Science*. 57:1764–1772. doi: 10.2135/cropsci2016.08.0685.
31. Adjewi, A.T.* and **Islam, M.A.** 2016. Rising nitrogen fertilizer prices and projected increase in maize ethanol production: the future of forage production and the potential of legumes in forage production systems. *Grassland Science* 62:203-212. doi: 10.1111/grs.12130.
30. Tracy, B.F., Albrecht, K., Flores, J., Hall, M., **Islam, M.A.**, Jones G., Lamp, W., MacAdam, J.W., Skinner, H., and Teutsch, C. 2016. Evaluation of alfalfa-tall fescue mixtures across multiple environments. *Crop Science* 56:2026-2034. doi: 10.2135/cropsci2015.09.0553.
29. Sintim, H.Y., Adjewi, A.T.*, Zheljaskov, V.D., **Islam, M.A.**, and Obour, A.K. 2016. Nitrogen application in sainfoin under rain-fed conditions in Wyoming: Productivity and cost implications. *Agronomy Journal* 108:294–300. doi: 10.2134/agronj2015.0317.
28. **Islam, M.A.**, Obour, A.K., Saha, M.C., Nachtman, J.J., Cecil, W.K., and Baumgartner, R.E. 2013. Grain yield, forage yield, and nutritive value of dual-purpose small grains in the Central High Plains of the USA. *Crop Management* doi: 10.1094/CM-2012-0154-RS.
27. Tracy, B., Albrecht, K., Flores, J., Hall, M., **Islam, M.A.**, Jones, G., Lamp, W., MacAdam, J., Skinner, H., and Teutsch, C. 2013. Forage yield, weed suppression and fertilizer nitrogen replacement value (FNRV) of alfalfa-tall fescue mixtures. *Grassland Science in Europe*. 18:192-194.
26. **Islam, M.A.**, Obour, A.K., Krall, J.M., Cecil, J.T., and Nachtman, J.J. 2013. Performance of turfgrass under supplemental irrigation and rain-fed conditions in the Central Great Plains of USA. *Grassland Science*, 59, 111-119.
25. **Islam, M.A.**, Obour, A.K., Saha, M.C., Nachtman, J.J., and Baumgartner, R.E. 2013. Small grains have forage production potential and nutritive value in Central High Plains of Wyoming. Online. *Forage and Grazinglands* doi:10.1094/FG-2013-0121-02-RS.
24. Kimura, E.* and **Islam, M.A.** 2012. Seed scarification methods and their use in forage legumes. *Research Journal of Seed Science*, 5, 38-50.
23. Interrante, S.M., Muir, J.P., **Islam, M.A.**, Maas, A.L., Anderson, W.F., and Butler, T.J. 2011. Establishment, agronomic characteristics, and dry matter yield of rhizoma peanut genotypes in cool environments. *Crop Science*, 51, 2256-2261.
22. Interrante, S.M., Singh, R., **Islam, M.A.**, Stein, J.D., Young, C.A., and Butler, T.J. 2011. Effectiveness of *Sinorhizobium* inoculants on annual medics. *Crop Science*, 51, 2249-2255.
21. **Islam, M.A.**, Biermacher, J.T., Interrante, S.M., Reuter, R.R., Hopkins, A.A., Cook, B.J., Bouton, J.H., and Butler, T.J. 2011. Production and economics of grazing rye–annual ryegrass and tall fescue systems. *Agronomy Journal*, 103, 558-564.
20. Biermacher, J., Reuter, R.R., Cook, B.J., **Islam, M.A.**, Hopkins, A., Bouton, J.H., and Butler, T.J. 2009. Economic feasibility of stocker cattle grazing tall fescue infected with a novel endophyte in the Southern Great Plains. *Journal of Animal Science*, 87 (E-Suppl. 2), 573.

19. Hirata, M., **Islam, M.A.**, Harada, E., Furuya, M., and Sakou, A. 2008. Sward structure and herbage quality, production and utilisation of adjacent monocultures of centipede grass and bahia grass grazed by cattle. *Tropical Grasslands*, 42, 202-213.
18. Biermacher, J.T., **Islam, M.A.**, Butler, T., Reuter, R., Cook, B., Hopkins, A., Bouton, J. 2008. Economic potential of tall fescue infected with a novel endophyte in the winter forage stocker grazing enterprise. *Journal of Agricultural and Resource Economics*, 33 (3), 494-494.
17. Butler, T. J., **Islam, M. A.**, and Muir, J. P. 2008. Establishing cool-season perennial grasses into former annual grass pastures in the southern Great Plains. Online. *Forage and Grazinglands* doi:10.1094/FG-2008-0911-01-RS.
16. Butler, T.J., Muir, J.P., **Islam, M.A.**, and Bow J.R. 2007. Rhizoma peanut yield and nutritive value are influenced by harvest technique and timing. *Agronomy Journal*, 99, 1559-1563.
15. **Islam, M.A.**, Dowling, P.M., Milham, P.J., Campbell, L.C., and Jacobs, B.C. 2007. Evaluation of *Austrodanthonia* accessions for acid tolerance and growth potential. *International Journal of Agricultural Research*, 2, 849-861.
14. **Islam, M.A.**, Dowling, P.M., Milham, P.J., Campbell, L.C., Jacobs, B.C., and Garden, D.L. 2006. Ranking acidity tolerance and growth potential of *Austrodanthonia* accessions. *Grassland Science*, 52, 127-132.
13. **Islam, M.A.** and Hirata, M. 2005. Centipedegrass (*Eremochloa ophiuroides* (Munro) Hack.): Growth behavior and multipurpose usages. *Grassland Science*, 51, 183-190.
12. **Islam, M.A.** and Hirata, M. 2005. Leaf appearance, death and detachment, and tillering in centipedegrass (*Eremochloa ophiuroides* (Munro) Hack.) in comparison with bahiagrass (*Paspalum notatum* Flüge): A study at a small sod scale. *Grassland Science*, 51, 121-127.
11. **Islam, M.A.**, Hirata, M., and Bao, G. 2004. Leaf dynamics of centipedegrass (*Eremochloa ophiuroides* (Munro) Hack.) in comparison with bahiagrass (*Paspalum notatum* Flüge): a preliminary study at a small sod scale. *Grassland Science*, 50, 88-89.
10. **Islam, M.A.**, Hirata, M., and Bao, G. 2004. Sward structure and leaf dynamics of centipedegrass (*Eremochloa ophiuroides* (Munro) Hack.): a study at a pasture scale. *Grassland Science*, 50, 90-91.
9. Bao, G., Hirata, M., and **Islam, M.A.** 2004. Effects of defoliation frequency on stolon development in centipedegrass. *Grassland Science*, 50, 96-97.
8. Bao, G., Hirata, M., and **Islam, M.A.** 2004. Effects of N and K application on gap colonization by centipedegrass. *Grassland Science*, 50, 98-99.
7. **Islam, M.A.**, Milham, P.J., Dowling, P.M., Jacobs, B.C., and Garden, D.L. 2004. Improved procedures for adjusting soil pH for pot experiments. *Communications in Soil Science and Plant Analysis*, 35, 25-37.
6. **Islam, M.A.**, Dowling, P.M., Garden, D.L., and Milham, P.J. 2003. *Austrodanthonia* - a productive pasture genus: a brief review. 2. Growth habit, nutritive value and production. *Grassland Science*, 49, 36-37.
5. **Islam, M.A.**, Dowling, P.M., Garden, D.L., and Milham, P.J. 2003. *Austrodanthonia* - a productive pasture genus: a brief review. 1. Occurrence and importance. *Grassland Science*, 49, 34-35.
4. **Islam, M.A.** 1999. Growth and yield response of onion to different sources of potassium and application methods. I. Growth behaviour. *Thai Journal of Agricultural Science*, 32, 391-400.

3. **Islam, M.A.** 1999. Growth and yield response of onion to different sources of potassium and application methods. II. Yield attributes and potassium uptake. *Thai Journal of Agricultural Science*, 32, 443-452.
2. Haque, M.A, Hossain, M.K., Saha, U.K., **Islam, M.A.**, and Islam, M.S. 1996. Response of proso millet (*Panicum miliaceum*) to major and minor nutrients in grey flood-plain soil of Bangladesh. *Indian Journal Agricultural Sciences*, 66, 91-94.
1. **Islam, M.A.**, Saha, U.K., Islam, M.S., and Saha, R.R. 1995. Fertilizing chickpea for high yield with special emphasis on boron and molybdenum in grey floodplain soils of Bangladesh. *Annals of Bangladesh Agriculture*, 5, 43-49.

Refereed Journal Articles in Progress (Submitted/Internal review/In preparation; *graduate student):

Submitted/in review:

2. Baidoo, M.M.*, and **Islam, M. A.** 2026. Phosphorus and harvest management effects on yield responses in alfalfa production systems. *Agronomy Journal*.
1. **Islam, M. A.**, and Baidoo, M.M.* 2026. Long-term production and profitability of fall vs. spring-planted cool-season perennial grasses. *Agronomy Journal*.

In Preparation:

3. Baidoo, M.M.* and **Islam, M. A.** Alfalfa response to high potassium fertility levels along with cultivar and harvest time. *Agronomy Journal*.
2. Baidoo, M.M.* and **Islam, M. A.** Integrating potassium, cultivar, and harvest time for improved alfalfa production. *Agronomy Journal*.
1. **Islam, M. A.**, and Baidoo, M.M.* Round-up Ready Alfalfa: potential long-term tool for sustainable forage production. *Agronomy Journal*.

Book Chapter (Refereed; *graduate student):

9. **Islam, M.A.** and Adjesiwor, A.T.* 2024. Forage Crops and Their Photosynthesis. *In: Handbook of Photosynthesis*, 4th Edition (M. Pessarakli, Ed.), CRC Press, Taylor & Francis Publishing Company, Florida.
8. **Islam, M.A.** and Baidoo, M.M.* 2021. Effect of Potassium on Growth and Physiology of Alfalfa. *In: Handbook of Plant and Crop Physiology*, 4th Edition (M. Pessarakli, Ed.). pp. 29-39. CRC Press, Taylor & Francis Publishing Company, Florida.
7. **Islam, M.A.** and Obour, A.K. 2021. Drought Physiology of Forage Crops. *In: Handbook of Plant and Crop Physiology*, 4th Edition (M. Pessarakli, Ed.). pp. 567-578. CRC Press, Taylor & Francis Publishing Company, Florida.
6. **Islam, M.A.** and Adjesiwor, A. T.* 2019. Moisture Stress and its Effects on Forage Production Systems. *In: Handbook of Plant and Crop Stress*, 4th Edition (M. Pessarakli, Ed.). CRC Press, Taylor & Francis Publishing Company, Florida.
5. **Islam, M.A.** and Nilahyane, A.* 2019. Water Stress Effects on Growth and Physiology of Corn. *In: Handbook of Plant and Crop Stress*, 4th Edition (M. Pessarakli, Ed.). CRC Press, Taylor & Francis Publishing Company, Florida.
4. **Islam, M.A.** and Ashilenje, D.* 2018. Understanding species traits and biodiversity indices to solve problems associated with legume persistence in cropping systems. *In: Plant Competition in Cropping Systems*, (D. Dunea, Ed.). pp. 23-36. InTechOpen, Rijeka, Croatia. DOI: 10.5772/intechopen.76523. Available at:

<https://www.intechopen.com/books/plant-competition-in-cropping-systems/understanding-species-traits-and-biodiversity-indices-to-solve-problems-associated-with-legume-persi>.

3. **Islam, M.A.** and Adjesiwor, A.T.* 2018. Nitrogen fixation and transfer in agricultural production systems. *In: Nitrogen in Agriculture - Updates*, (Amanullah and S. Fahad. Eds), pp. 95-110. InTechOpen, Rijeka, Croatia. DOI: 10.5772/intechopen.71766. Available at: <https://www.intechopen.com/books/nitrogen-in-agriculture-updates/nitrogen-fixation-and-transfer-in-agricultural-production-systems>.
2. **Islam, M.A.** and Adjesiwor, A.T.* 2016. Forage Crops and Their Photosynthesis. *In: Handbook of Photosynthesis*, 3rd Edition (M. Pessarakli, Ed.), pp. 465-474. CRC Press, Taylor & Francis Publishing Company, Florida.
1. **Islam, M.A.** and Obour, A.K. 2014. Drought Physiology of Forage Crops. *In: Handbook of Plant and Crop Physiology*, 3rd Edition (M. Pessarakli, Ed.), pp. 427-440. CRC Press, Taylor & Francis Publishing Company, Florida.

Reviewed Research Reports:

2. **Islam, M.A.**, Dowling, P.M., Milham, P.J., Campbell, L.C., and Garden, D.L. 2002. Tolerance of *Austrodanthonia* spp. to factors associated with soil acidity. In *Acid Soil Action (ASA) Research Report*. Ed. G. Fenton, pp. 39-43. NSW Agriculture: Wagga Wagga, Australia.
1. **Islam, M.A.** 2000. Acid tolerance and fertility responses of important native grasses for acid soils. In *Acid Soil Action Detailed Reports of Southern Region Projects*. Eds. B. Scott, B. Schumann, and G. Fenton, pp. 25-26. NSW Agriculture, Wagga Wagga, Australia.

Reviewed Proceedings (*graduate student):

21. **Islam, M.A.** and Munkaila, M. 2023. Planting configurations and irrigation regimes affect yield, quality, and economic returns of alfalfa-grass mixtures. *Proceedings of the Western Alfalfa and Forage Symposium*, December 10-12, 2023, Sparks, NV. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA.
20. **Islam, M.A.** and Baidoo, M.* 2022. Alfalfa response to phosphorus and potassium in association with calcium and magnesium and harvest time. 2022 World Alfalfa Congress, November 14-17, 2022, San Diego, California. <https://calhaysymposium.com/>.
19. **Islam, M.A.** and Ashilenje, D.* 2022. Comparison of Grass-legume Mixtures and Nitrogen Effects on Trace Gas Emission and Soil Microbial Biomass. The 8th International Greenhouse Gas & Animal Agriculture Conference, July 31-August 5, 2022, Glasgow, UK. <https://www.22wcass.org>.
18. **Islam, M.A.** and Ashilenje, D.* 2022. Grass-legume Mixtures and Nitrogen Fertilizers Can Affect Trace Gas Emission and Soil Microbial Biomass. The 8th International Greenhouse Gas & Animal Agriculture Conference, June 5-9, 2022, Orlando, Florida. <https://conference.ifas.ufl.edu/ggaa/>.
17. **Islam, M.A.** and Ashilenje, D.* 2021. Grass-Legume Mixtures for Diversified and Profitable Forage Production. *Proceedings of the XXIV International Grassland Congress/XI International Rangeland Congress (Virtual)*, October 25-29, 2021, Nairobi, Kenya. <https://uknowledge.uky.edu/cgi/viewcontent.cgi?article=4238&context=igc>.
16. **Islam, M.A.**, Baidoo, M.*, Brummer, J., and Min, D. 2018. Effects of potassium, cultivar, and harvest time on sustainable alfalfa production. *Proceedings of the 2nd World Alfalfa Congress*, November 11-14, 2018, Cordoba, Argentina.

15. **Islam, M.A.** and Aryal, P*. 2016. Planting Time and Grass Mixtures Affect Forage Kochia Establishment. Proceedings of the International Range Congress, July 3-4, 2016, Saskatchewan, Canada.
14. Adjewiwo, A.T.* and **Islam, M.A.** 2015. Grass, legumes, and grass-legume mixtures: Yield, nutritive value, and soil water use. Proceedings of the Western Alfalfa and Forage Symposium, December 3-4, 2015, Reno, NV. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA.
13. **Islam, M.A.** 2015. Tall Fescue: Forage and Seed Production Economics. Proceedings of the 23rd International Grassland Congress, November 20-24, 2015, New Delhi, India. Ed. A.K. Roy. IGC 2015, New Delhi, India.
12. **Islam, M.A.**, Nachtman, J., Obour, A.K., and Edwards, J. 2015. Agronomic Performance of High Value Crops in High Tunnel in Wyoming, USA. Proceedings of the International Conference on Agronomy and Horticulture, August 25-27, 2015, Shanghai, China. ICAH 2015, Shanghai, China.
11. **Islam, M.A.** 2013. Fenugreek has potential to use as a forage crop. Proceedings of the Western Alfalfa and Forage Symposium, December 11-13, 2013, Reno, NV. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA.
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Peer-Reviewed Extension Publications (Bulletins)

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Peer-Reviewed Extension Publications (Bulletins; *In Review/Submitted/Accepted*)

1. Baidoo, M.* and **Islam, M.A.** 2024. Integrating Potassium, Cultivar, and Harvest Time for Improved Alfalfa Forage Production. University of Wyoming Extension Bulletin. University of Wyoming, Laramie (*In review*).

University of Wyoming Ag Experiment Station Field Days Bulletins (Externally Reviewed)

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105. Shilpakar, C.* and **Islam, M.A.** 2022. Performance of Newly Developed Alfalfa and Sainfoin Cultivars under Irrigated and Rain-Fed Conditions. 2022 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
104. Munkaila, M.* and **Islam, M.A.** 2022. Productivity of Alfalfa-grass Mixtures under Full and Deficit Irrigation. 2022 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
103. **Islam, M.A.**, Munkaila, M.*, Baidoo, M.*, and Shilpakar, C.* 2022. Evaluation of Roundup Ready alfalfa for adaptability to Wyoming conditions. 2022 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
102. Yakubu, A.*, Shilpakar, C.*, Munkaila, M.*, and **Islam, M.A.** 2022. Response of Alfalfa Forage Yield to Micronutrient under Semi-Arid Conditions. 2022 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
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94. Shilpakar, C.* and **Islam, M.A.**, 2021. Effect of grass-legume mixtures on forage productivity and carbon sequestration. 2021 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
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90. Shilpakar, C.* and **Islam, M.A.** 2020. Establishment of cool-season perennial grasses and legumes in disturbed environments. 2020 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
89. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2020. Evaluating Alfalfa Cultivars for Adaptability and Forage Yield Production under Wyoming's Conditions. 2020 Field Days Bulletin, University of Wyoming Agricultural Experiment Station.
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 49. Savage, A.C., Sivanpillai, R., and **Islam, M.A.** 2018. Monitoring crop growth variations in a Wyoming field using growing season satellite data. Proceedings of the 2018 GIS in the Rockies Conference September 19-20, 2018. Denver, CO (GIS in the Rockies).
 48. **Islam, M.A.** 2018. Response of Alfalfa to Soil Potassium, Cultivars, and Harvesting Intervals. Proceedings of the International Congress and Expo on Agriculture and Horticulture August 13-14, 2018. Amsterdam, Netherlands (Scientific Federations, UK).
 47. Baidoo, M.* and **Islam, M.A.** 2018. Effect of Potassium and Harvest Time on Forage Accumulation and Potassium Uptake of Alfalfa. Proceedings of the Western Society of Crop Science Annual Meetings June 19-20, 2018. Laramie, WY (Western Society of Crop Science).
 46. Baidoo, M.* and **Islam, M.A.** 2018. Potassium and Harvest Time Affect Production and Nutritive Value of Alfalfa. Proceedings of the Western Society of Crop Science Annual Meetings June 19-20, 2018. Laramie, WY (Western Society of Crop Science).
 45. Ashilenje, D.S.* and **Islam, M.A.** 2018. Plant community structure and nitrogen dynamics underlie sustained productivity of grass-legume forage mixtures in Wyoming. Proceedings of the Western Society of Crop Science Annual Meetings June 19-20, 2018. Laramie, WY (Western Society of Crop Science).
 44. Ashilenje, D.S.* and **Islam, M.A.** 2018. Benefits of grass-legume mixture extend to nitrogen gains and alleviation of greenhouse gas emissions in Wyoming. Proceedings of the Western Society of Crop Science Annual Meetings June 19-20, 2018. Laramie, WY (Western Society of Crop Science).
 43. Khatiwadal, B., Acharya, S.N., Larney, F., Lupwayi, N.Z., Smith, E., and **Islam, M.A.** 2018. Ability of sainfoin and cicer milkvetch populations to rejuvenate existing pastures in western Canada. Proceedings of the Western Society of Crop Science Annual Meetings June 19-20, 2018. Laramie, WY (Western Society of Crop Science).
 42. **Islam, M.A.** 2018. The silent decline in soil potassium levels and its effect on alfalfa productivity in the Central and Western U.S. Proceedings of the North American Alfalfa Improvement Conference Annual Meetings June 4-6, 2018. Logan, UT (NAAIC, Trifolium, & Grass Breeders).
 41. Ashilenje, D.S.* and **Islam, M.A.** 2017. Profiling canopy light interception and growth forms to predict forage yield and nutritive value for meadow brome-grass-alfalfa mixtures. Proceedings of the ASA-CSSA-SSSA International Annual Meetings October 22-25, 2017. Tampa, FL (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 40. **Islam, M.A.** 2017. Legume adoption practices in the central great plains of USA for sustainable agricultural production in the face of climate change. Proceedings of the 2nd International Conference on Plant Science and Physiology June 26-29, 2017 Bangkok, Thailand (Conference Series Limited, UK).
 39. **Islam, M.A.** 2017. Understanding Plant Diversity and Physiology for Resilient Production Systems and Environmental Benefits. Proceedings of the 2nd International Conference on

- Plant Science and Physiology June 26-29, 2017 Bangkok, Thailand (Conference Series Limited, UK).
38. **Islam, M.A.** 2017. Silent Decline in Soil Potassium May Influence Sustainable Production of Alfalfa. Proceedings of the International - Conference Frontiers of Potassium January 25-27, 2017 Rome, Italy (International Plant Nutrient Institute).
 37. **Islam, M.A.** 2016. Legume Adoption Practices in the Central Great Plains of USA and Their Benefits in the Face of Climate Change. Proceedings of the International Conference on Envisioning Our Common Future December 22-23, 2016 Dhaka University, Bangladesh.
 36. **Islam, M.A.** 2016. Plant Diversity for Resilient Production and Environmental Benefits in the Changing World. Proceedings of the International Conference on Changing the World through Japan's Scientific Endeavors "Japan's Rapidly Aging Society" November 12, 2016 Harvard University, Boston, MA (Japan-US Science Forum in Boston).
 35. **Islam, M.A.** 2016. Managing Plant Diversity for Resilient Forage Systems and Environmental Benefits in the Mountain West. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 7-9, 2016 Phoenix, AZ (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 34. Nilahyane, A.*, **Islam, M.A.**, Garcia y Garcia, A., and Mesbah, A.O. 2016. Response of Corn for Silage to Water in a Semi-Arid Environment. Proceedings of the American Society of Agricultural and Biological Engineers (ASABE) Annual Meetings July 17-20, 2016. Orlando, FL.
 33. Dhakal, D.* and **Islam, M.A.** 2015. Grass-Legume Mixtures for Improved Yield, Quality, Persistence, and Economic Return. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 15-18 2015. Minneapolis, MN (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 32. Nilahyane, A.*, **Islam, M.A.**, Garcia y Garcia, A., and Mesbah, A.O. 2015. Effect of Irrigation and Nitrogen Rates on Yield and Quality of Corn for Silage. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 15-18 2015. Minneapolis, MN (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 31. Nilahyane, A.*, **Islam, M.A.**, Garcia y Garcia, A., Sylvester, A., and Herbert, S. 2015. Growth and physiological responses of maize to water stress. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 15-18 2015. Minneapolis, MN (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 30. **Islam, M.A.** 2014. Economics of Tall Fescue Production. Proceedings of the Japan Society for the Promotion of Science-US Alumni Association 5th Multidisciplinary Science Forum International Annual Meetings 7 November 2014. University of Florida, Gainesville, FL (Japan Society for the Promotion of Science).
 29. **Islam, M.A.** 2014. Forage and seed production economics of tall fescue. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 2-5 2014. Long Beach, CA (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
 28. Nilahyane, A.*, Garcia y Garcia, A., and **Islam, M.A.** 2014. Effect of Irrigation and Nitrogen Rates on Yield of Corn for Silage. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 2-5 2014. Long Beach, CA (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).

27. **Islam, M.A.**, Saha, M.C., and Wehmeyer, B.A. 2013. Drought stress affects agronomic performance of tall fescue genotypes. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 3-6 2013. Tampa, FL (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
26. Dhakal, D.* and **Islam, M.A.** 2013. Grass-legume mixtures to mitigate nitrogen need and improve soil properties in the Great Plains of Wyoming. Proceedings of the ASA-CSSA-SSSA International Annual Meetings November 3-6 2013. Tampa, FL (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
25. Carter, C.*, Garcia y Garcia, A., **Islam, M.A.**, and Hansen, K. 2013. Effect of deficit irrigation on water use and water use efficiency of alfalfa. Proceedings of the American Society of Agricultural and Biological Engineers (ASABE) Annual Meetings July 21-24 2013. Kansas city, MO.
24. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., Baumgartner, R.E., Bandara, M., and Acharya, S.N. 2013. Fenugreek may have potential for multipurpose use. Proceedings of the Western Society of Crop Science Annual Meetings June 11-12 2013. Pendleton, OR (Western Society of Crop Science).
23. **Islam, M.A.** and Wehmeyer, B.A. 2013. Biofuel and forage potential of cool-season grass genotypes. Proceedings of the Japan Society for the Promotion of Science-US Alumni Association 3rd Multidisciplinary Science Forum International Annual Meetings 1 February 2013. Chapman University, Orange, CA (Japan Society for the Promotion of Science).
22. **Islam, M.A.**, and Violett, R. 2012. Effect of Nitrogen and Clipping on Forage and Seed Yield of Tall Fescue. Proceedings of the ASA-CSSA-SSSA International Annual Meetings October 21-24 2012. Cincinnati, OH (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
21. Kimura, E.*, Krall, J.M., Hess, B.W., and **Islam, M.A.** 2012. Establishing Forage Legumes with Companion Crop. Proceedings of the WSCS Annual Meetings July 11-13 2012. Washington State University, Pullman, WA (Western Society of Crop Science).
20. **Islam, M.A.** and Kimura, E.* 2011. Scarification method and storage time affect hard seed and germination of forage legumes. Proceedings of the Japan Society for the Promotion of Science-US Alumni Association Multidisciplinary Science Forum International Annual Meetings 28 October 2011. Western Michigan University Kalamazoo, MI (Japan Society for the Promotion of Science).
19. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., and Baumgartner, R.E., Bandara, M., and Acharya, S.N. 2011. Evaluation of fenugreek for forage and seed yield potential in Wyoming. Proceedings of the ASA-CSSA-SSSA International Annual Meetings October 16-19 2011. San Antonio, TX (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
18. Kimura, E.*, Krall, J.M., Hess, B.W., and **Islam, M.A.**, 2011. Effect of scarification method and storage time on hard seed and germination of forage legumes. Proceedings of the Western Society of Soil Science and Western Society of Crop Science Joint Annual Meetings 20-22 June 2011. University of Wyoming, Laramie, WY (Western Societies of Soil Science and Crop Science).
17. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., and Baumgartner, R.E. 2011. Assessment of fenugreek for adaptation to Southeast Wyoming. Proceedings of the American Forage and Grassland Council Annual Conference 12-15 June 2011. French Lick, IN (American Forage and Grassland Council).

16. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., Baumgartner, R.E., and Bandara, M. 2011. Assessment of fenugreek: A new specialty crop. Proceedings of the Japan Society for the Promotion of Science-US Alumni Association Multidisciplinary Science Forum International Annual Meetings 11-12 March 2011. Seattle, WA. (US Japan Society for the Promotion of Science).
15. **Islam, M.A.**, Saha, M.C., Baumgartner, R.E., and Nachtman, J.J. 2010. Seed yield potential of tall fescue germplasm in the Great Plains of Wyoming. Proceedings of the ASA-CSSA-SSSA International Annual Meetings October 31-November 3 2010. Long Beach, CA. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
14. Kimura, E.*, Krall, J.M., Hess, B.W., and **Islam, M.A.** 2010. Seed scarification and a companion crop may enhance forage legume establishment in the Central West regions of USA. Proceedings of the ASA-CSSA-SSSA International Annual Meetings October 31-November 3 2010. Long Beach, CA. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
13. **Islam, M.A.**, Saha, M.C., and Baumgartner, R.E. 2010. Yield performance of cool-season grasses under irrigated and dryland conditions in the Great Plains of Wyoming. Proceedings of the American Forage and Grassland Council Annual Conference 21-23 June 2010. Springfield, MO (American Forage and Grassland Council).
12. Kimura, E.* and **Islam, M.A.** 2010. Enhancing forage legumes establishment through seed scarification and use of companion crop in the high plains of Wyoming. Proceedings of the American Forage and Grassland Council Annual Conference 21-23 June 2010. Springfield, MO (American Forage and Grassland Council).
11. **Islam, M.A.**, Saha, M.C., Baumgartner, R.E., Cecil, J.T., and Nachtman, J.J. 2009. Forage and grain yield potential of small grains in the Great Plains of Wyoming. Proceedings of the ASA-CSSA-SSSA International Annual Meetings 1-5 November 2009. Pittsburgh, PA. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
10. **Islam, M.A.**, Cecil, J.T., Saha, M.C., Baumgartner, R.E., and Nachtman, J.J. 2009. Small Grains Crops in the Great Plains of Wyoming May Have a Potential as Annual Forages. Proceedings of the Western Society of Crop Science Annual Meetings 22-24 June 2009. Fort Collins, CO (WSCS).
9. **Islam, M.A.** 2008. Pasture renovation: Value of fertilization and reseeding. Proceedings of the Society for Range Management Wyoming Section and Soil and Water Conservation Society joint annual meeting, 18-20 November 2008. Cheyenne, WY (SRM-SWCS).
8. **Islam, M.A.** 2008. Pasture renovation: Establishment, reseeding, and interseeding. Proceedings of the Society for Range Management Wyoming Section and Soil and Water Conservation Society joint annual meeting, 18-20 November 2008. Cheyenne, WY (SRM-SWCS).
7. **Islam, M.A.**, Butler, T.J., Hopkins, A.A., Biermacher, J.T., Cook, B.J., and Bouton, J.H. 2008. Stocker grazing performance of annual versus perennial cool-season grass system. Proceedings of the Geological Society of America (GSA), Soil Science Society of America (SSSA), American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and the Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM (GCAGS) International Annual Meetings 5-9 October 2008. Houston, TX (Houston Geological Society).

6. **Islam, M.A.,** Butler, T.J., and Huo, C. 2008. Effect of different herbicides on switchgrass establishment and growth. Proceedings of the American Forage and Grassland Council and the Society for Range Management Joint Annual Meeting 26-31 January 2008. Louisville, Kentucky (American Forage and Grassland Council and Society for Range Management).
5. **Islam, M.A.** and Butler, T.J. 2008. Germplasm evaluation of rhizoma peanut for growth and forage potential. Proceedings of the American Forage and Grassland Council and the Society for Range Management Joint Annual Meeting 26-31 January 2008. Louisville, Kentucky (American Forage and Grassland Council and Society for Range Management).
4. **Islam, M.A.** and Butler, T.J. 2007. Effect of *Rhizobia* inoculants on annual medics. Proceedings of the ASA-CSSA-SSSA International Annual Meetings 4-8 November 2007. New Orleans, LA. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
3. **Islam, M.A.** and Butler, T.J. 2007. Evaluation of wild bean for forage potential. Proceedings of the AFGC Annual Meeting 24-26 June 2007. Pennsylvania State College, PA (American Forage and Grassland Council).
2. **Islam, M.A.,** Butler, T.J., Bushong, J.T., and Rowland, M.W. 2006. Effect of *Rhizobia* inoculants on wild bean. Proceedings of the ASA-CSSA-SSSA International Annual Meetings 12-16 November 2006. Indianapolis, IN. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).
1. Bushong, J.T., Butler, T.J., **Islam, M.A.,** and Rowland, M.W. 2006. Annual medics (*Medicago* spp.) response to *Rhizobia* inoculation. Proceedings of the ASA-CSSA-SSSA International Annual Meetings 12-16 November 2006. Indianapolis, IN. (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America).

Grants, Presentations, Research, and Professional Service:

Grants:

Successful: \$14,255,297

USDA Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), Wyoming	
Department of Agriculture. 2023-2025	\$100,000
Islam, M.A. Evaluation of Peas in Rotation with Annual Crop for Monitoring Productivity and Soil Health.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2023	\$5,020
Islam, M.A. Pea evaluation in rotation with papa criolla potatoes	
Hatch/Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2022-2023	
\$118,500	
Islam, M.A. NIRS DS3 Analyzer for forage quality and soil analyses.	
Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2022-2023	
\$4,500	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2022-2023	\$9,800
Islam, M.A. Increasing yield, quality, and economy of alfalfa hay through grass species selection and planting configuration.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2022-2023	\$9,800
Islam, M.A. Investigating the impacts of grazing decisions on soil carbon concentrations.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2022-2023	\$9,800

Islam, M.A. Evaluation of winter wheat-fallow and/or winter wheat-cover crop-fallow vs. perennial grass/legume system.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2022-2023	\$9,800
Islam, M.A. Evaluation of pea in rotation with papa criolla potatoes in Wyoming environments.	
Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2022-2023	\$4,800
Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2021-2022	\$4,800
Islam, M.A. Research Support for Optimizing and Characterizing Sustainable Beef Cattle Production in Forage Based Systems on Western Rangelands.	
USDA-NIFA AFRI Sustainable Agricultural Systems (SAS). 2021-2026	\$10,000,000
Picasso, V., Berti, M., Islam, M.A., et al. Fostering Resilience and Ecosystem Services in Landscapes by Integrating Diverse Perennial Circular Systems.	
Robert Lang Graduate Fellowship, COANR, UW. 2021-2022	\$9,000
Islam, M.A. Increasing yield, quality, and economy of alfalfa hay through grass species selection and planting configuration.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2021-2022	\$9,000
Islam, M.A. Investigating the impacts of grazing decisions on soil carbon concentrations.	
Barenbrug USA. 2021-2022	\$3,000
Islam, M.A. Grass genotype/line testing for growth and yield potential.	
Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2021-2022	\$4,000
Islam, M.A. Research Support for Optimizing and Characterizing Sustainable Beef Cattle Production in Forage Based Systems on Western Rangelands.	
Grassland Oregon Seed. 2021-2022	\$4,000
Islam, M.A. Sainfoin and falcata alfalfa evaluation in Wyoming.	
Hatch/Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2021	\$45,315
Islam, M.A. 9110 Ag-Probe system with UTV for soil sampling.	
Hatch Multistate, Wyoming Agricultural Experiment Station Competitive Grants Program. 2021	\$9,295
Islam, M.A. Upgrading Near Infrared Reflectance Spectroscopy (NIRS) for Forage Quality Analysis.	
US Department of Energy and Navarro Research and Engineering. 2021-2024	\$150,000
Islam, M.A., Kastens, M., McGraw, J., Holbrook, D., and Heward, T. Regenerate Grazing for Carbon Sequestration in Shirley Basin, Wyoming.	
USDA Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), Wyoming Department of Agriculture. 2021-2024	\$46,985
Islam, M.A. Forage pea production in rotation with papa criolla potato.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2020-2021	\$9,000
Islam, M.A. Increasing yield, quality, and economy of alfalfa hay through grass species selection and planting configuration.	
Grassland Oregon Seed. 2020-2021	\$4,000
Islam, M.A. Sainfoin and falcata alfalfa evaluation in Wyoming.	
Barenbrug USA. 2020-2021	\$3,000

Islam, M.A. Grass genotype/line testing for growth and yield potential.	
USDA-NIFA ASAFS Program. 2019-2021.	\$457,339
Afshar, R.K., Islam, M.A. , Qin, R., and Liang, X. Increasing yield, quality, and economy of alfalfa hay through grass species selection and planting configuration under full and limited irrigation conditions.	
USDA NIFA Crop Protection and Pest Management (CPPM). 2019-2022	\$324,998
Jabbour, R., Rand, T.A., Peairs, F., Islam, M.A. , Ritten, J., and Lee, B. Integration of Early Harvest with Biological Control for Sustainable Alfalfa Production.	
Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), USDA Wyoming Department of Agriculture. 2019-2021	\$50,000
Islam, M.A. Evaluation of Yacon in Rotation with Fenugreek in Wyoming Environments.	
Grassland Oregon Seed. 2019-2020	\$4,000
Islam, M.A. Sainfoin and falcata alfalfa evaluation in Wyoming.	
Energy GA Fellowships, UW. 2018-2020	\$56,816
Islam, M.A. Reclamation of disturbed areas used by gas industries in Wyoming by using some promising grass and legume genotypes.	
South Dakota State University. 2018-2019	\$12,489
Islam, M.A. Forage sorghum hybrid multi-location trials.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2018-2019	\$9,000
Islam, M.A. Developing a potassium fertility management program on alfalfa.	
Edward H. and Susan King Lloyd Graduate Research Award, UW. 2018-2019	\$3,000
Islam, M.A and Baidoo, M. Potassium and harvest management in alfalfa.	
UW School of Energy Resources. 2018-2019	\$83,000
Stahl, P.D., Eberle, C.A., Norton, J.B., Islam, M.A. , and Coupal, R.H. Use of Coal Residues as a Soil Amendment.	
Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), USDA Wyoming Department of Agriculture. 2017-2019	\$24,500
Islam, M.A. Evaluation of chickpeas in Wyoming Environments.	
Y Cross Ranch Tuition and Fee Award, COANR, UW. 2017-2018	\$8,000
Islam, M.A. Effect of potassium on alfalfa productivity.	
South Dakota State University. 2017-2019	\$9,662
Islam, M.A. Forage sorghum hybrid multi-location trials.	
USDA-NIFA Alfalfa and Forage Research Program. 2016-2019	\$250,000
Islam, M.A. , Burmmer, J., and Min, D. The silent decline in soil potassium levels and its effect on alfalfa productivity in the central and western US.	
UW School of Energy Resources. 2016-2019	\$242,000
Stahl, P.D., Coupal, R.H., Islam, M.A. , McLaughlin, J.F., and Norton, J.B. Use of coal residues as soil amendments.	
UW AES Global Perspectives Grant. 2016	\$4,000
Islam, M.A. Identification and evaluation of germplasm for development of improved forage cultivars.	
UW CES Internal Grant. 2015-2016	\$2,197
Islam, M.A. Request for funds for replacing outdated computer, and portable projector, portable projection screen, and portable mike system.	
UW AES Grant (AD-416 and AD-417 WYO-457-10). 2015	\$2,604

Islam, M.A. Multistate Project Number W-2012 “Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes.”	
Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), USDA Wyoming Department of Agriculture. 2015-2017	\$24,500
Islam, M.A. Regional assessment of fenugreek for producer’s propagation.	
Agriculture Producer Research Grant Program (APRGP), USDA Wyoming Department of Agriculture and UW AES. 2015-2017	\$40,000
Islam, M.A. Evaluation of Birdsfoot Trefoil – A Non-bloating Forage Legume –in Wyoming.	
Agriculture Producer Research Grant Program (APRGP), USDA Wyoming Department of Agriculture and UW AES. 2015-2017	\$40,000
Dhekney, S., Jabbour, R., Islam, M.A., and Horn, B. Engineering alfalfa weevil resistance in commercial alfalfa cultivars: a valuable tool for integrated pest management of alfalfa weevil.	
Western SARE Graduate Student Grants. 2014-2016	\$24,998
Islam, M.A. and Adjesiwor, A. Economic and Environmental Sustainability of Irrigated Grass-Legume Mixtures.	
UW Summer Graduate Research/Graduate Student Enhancement. 2014	\$5,000
Islam, M.A. Productivity, quality, water-use efficiency, and benefit-cost ratios of irrigated grass-legume mixtures.	
Agriculture Producer Research Grant Program (APRGP), USDA Wyoming Department of Agriculture and UW AES. 2014-2017	\$40,000
Islam, M.A., Groose, R.W., Garcia y Garcia, A., and Nachtman, J.J. Wyoming production of locally-bred winter pea to integrate crop and livestock production in Wyoming.	
Agriculture Producer Research Grant Program (APRGP), USDA Wyoming Department of Agriculture and UW AES. 2013-2016	\$40,000
Islam, M.A. Effect of planting time and fertilizer management on quinoa production in Wyoming.	
Specialty Crop Block Grant Program – Farm Bill (SCBGP-FB), USDA Wyoming Department of Agriculture. 2013-2016	\$20,000
Islam, M.A. Evaluation of kinwa (quinoa) as a leafy green crop for adaptation to Wyoming.	
Agriculture Producer Research Grant Program (APRGP), USDA Wyoming Department of Agriculture and UW AES. 2013-2016	\$40,000
Horn, B., Islam, M.A. (Research Advisor), Jeliaskov, V., and Garcia y Garcia, A. Perennial cool-season grasses for hay production and fall grazing under full and limited irrigation.	
Japan Society for Promotion of Science BRIDGE Fellowship Program. 2013-2014	\$11,250
Islam, M.A. and Hirata, M. Creating a research and education network for developing sustainable milk, beef, and biofuel production from grasslands in diverse environments.	
Academic and Student Programs, UW. 2013-2014	\$830
Islam, M.A. Funding request for student demonstration and plant identification for forage crop science.	
Energy GA Fellowships, UW. 2013-2015	\$43,194
Islam, M.A. Potential of forage kochia to reclaim disturbed areas and areas of low reclamation potential used by gas industries in Wyoming.	
ShREC Graduate Assistantship Program. 2013-2015	\$32,858

Islam, M.A., Jeliaskov V., Garcia y Garcia, A., Ritten, J., and Horn, B. Productivity, quality, water use efficiency, and benefit-cost ratios of irrigated grass-legume mixtures.	
SAREC Graduate Assistantship Program. 2013-2015	\$32,858
Kniss, A., Mealor, B., Islam, M.A., Obour, A., Lee B., Paisley, S., and Claypool, D. Winter forage crops as a supplement to corn stalk grazing in integrated crop/livestock systems in Southeast Wyoming.	
Forage Genetics International. 2012-2023	\$22,500
Islam, M.A. Roundup Ready Alfalfa Testing.	
Wyoming Crop Improvement Association. 2012-2017	\$5,000
Islam, M.A. Forage Yield and Seed Yield Potential of Novel Tall Fescue under Irrigated Condition in the Big Horn Basin of Wyoming.	
Allied Seed L.L.C. 2012-2016	\$1,050
Islam, M.A. Alfalfa variety yield trials.	
WY Department of Agriculture Specialty Crop Grant Program. 2012-2015	\$22,394
Obour, A., Islam, M.A., and Nachtman, J. Agronomic and economic evaluation of organic and conventional soil fertility management in High Tunnels.	
International Crop Science Congress Travel Grant. 2012	\$2,000
Islam, M.A. Request funds for attending the 6 th International Crop Science Congress in Brazil.	
UW CES Internal Grant. 2012-2013	\$1,544
Islam, M.A. Request for funds for replacing outdated computer.	
The Noble Foundation. 2012-2013	\$6,100
Islam, M.A. Research grant for tall fescue evaluation in the Great Plains of Wyoming.	
The Noble Foundation. 2012-2013	\$5,000
Islam, M.A. Research grant for tall fescue seed production evaluation in the Great Plains of Wyoming.	
Academic and Student Programs, UW. 2012-2013	\$850
Islam, M.A. Funding request for student demonstration and plant identification for forage crop science.	
Edward H. and Susan King Lloyd Graduate Research Award, UW. 2012-2013	\$3,600
Wehmeyer, B. and Islam, M.A (faculty advisor). Forage and biofuel potential of tall fescue germplasms.	
Wyoming Reclamation and Restoration Center Graduate Assistantship Program, UW. 2011-2013.	\$64,000
Islam, M.A., Waldron, B., and Stahl, P. Potential of forage kochia to reclaim steep topographic areas and areas of low reclamation potential used by gas industries.	
Forage Genetics International, Dairyland Seed Co., Inc., and Land O'Lakes, Inc. 2011-2016	\$6,450
Islam, M.A. Alfalfa variety yield trials.	
UW AES Grant (AD-416 and AD-417 WYO-457-10). 2011	\$2,604
Islam, M.A. Multistate Project Number NCCC031 "Ecophysiological aspects of forage management.	
Western Region SARE Professional Development Proposal. 2011-2013	\$99,208
Project Coordinators: Shewmaker, G.E., Fransen, S.C., Bohle, M., Cash, D.; Project Cooperators: Hannaway, D., Cheyney, C.C., Brazee, B., Islam, M.A., Brummer, J., Griggs,	

T.C., and Gray, C.W. Forage and Pasture Educational Program for Professionals in the Northwest.

Bohnenblust-Kolp Scholarship, Department of Plant Sciences, UW. 2011 \$2,650
Islam, M.A. and Wehmeyer, B.A. Biofuel Production Potential of Tall Fescue Germplasm.

The Noble Foundation. 2010-2011 \$5,000
Islam, M.A. Research grant for tall fescue seed production evaluation in the Great Plains of Wyoming.

UW AES Competitive Grants Program. 2011-2012 \$40,000
Garcia y Garcia, A. and **Islam, M.A.** Towards the recommendation of scientifically-based irrigation scheduling strategies in Wyoming: A case study for forage alfalfa crop production.

USDA NIFA Climate Change (planning grant). 2010-2013 \$50,000
Islam, M.A. (PD), Norton, U., Ritten, J., Groose, R., Santra, D., Norton, J., Garcia y Garcia, A., Sivanpillai, R., Gray, S., Del Grosso, S., Paisley, S., and Krall, J.J. Legume adoption practices in western central United States: Economic and environmental benefits in face of increased climatic variability.

USDA NIFA-Organic Agric. Research & Extension Initiative. 2010-2015 \$1,019,972
MacAdam, J., Brummer, J., **Islam, M.A.**, Eun, J., Gray, C.W., Heleba, D., McMahon, D., Reeve, J., Shewmaker, G., and Young, A. Improved organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil.

UW CES Internal Grant. 2010 \$1,550
Islam, M.A. Request for funds for replacing outdated computer and printer.

UW AES Grant (AD-416 and AD-417 WYO-457-10). 2010 \$2,604
Islam, M.A. Multistate Project Number NCCC031 "Ecophysiological aspects of forage management.

UW AES Global Perspectives Grant. 2010 \$4,000
Islam, M.A. Assessment of fenugreek for adaptation to South East Wyoming.

DuPont Crop Protection, Wilmington, DE. 2010-2013 \$90,000
Mealor, B., Kniss, A., and **Islam, M.A.** Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands.

Apache Corporation, Clearmont, WY. 2010-2013 \$30,000
Mealor, B., Kniss, A., and **Islam, M.A.** Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands.

School of Energy Resources, University of Wyoming. 2010-2013 \$85,000
Mealor, B., Kniss, A., and **Islam, M.A.** Developing weed management strategies to improve desirable species establishment in reclamation of disturbed lands.

The Noble Foundation. 2010-2011 \$6,100
Islam, M.A. Research grant for small grains and tall fescue evaluation in the Great Plains of Wyoming.

USDA Wyoming Department of Agriculture. 2010-2012 \$17,103
Islam, M.A. and Krall, J.M. Assessment of fenugreek for adaptation to south east Wyoming.

Office of Research and Economic Develop. Major Equipment Grant. 2010-2011 \$21,210
Kniss, A., Franc. G., **Islam, M.A.**, Norton, U., Mealor, M., Belden, K. Growth Chambers for Plant Science Research.

The Noble Foundation. 2009-2010 \$4,800
Islam, M.A. Research grant for small grains and tall fescue evaluation in the Great Plains of Wyoming.

USDA Wyoming Department of Agriculture. 2009-2010	\$10,000
Islam, M.A., Krall, J.M., Cecil, J.T., and Natchman, J.J. Turfgrass evaluation for suitability in Wyoming climate.	
Wyoming Crop Improvement Association. 2009-2011	\$15,000
Islam, M.A., Violet, R., and Stroh, R. Forage Yield and Seed Yield Potential of Novel Tall Fescue under Irrigated Condition in the Big Horn Basin of Wyoming.	
Crop Science Society of America. 2007	\$2,000
Islam, M.A. Competitive travel funds from Crop Science Society of America and International Crop Science Congress to attend International Crop Science Congress in Korea.	
Japan Society for the Promotion of Science. 2002-2004	\$35,000
Islam, M.A. and Hirata, M. Evaluation of centipedegrass as a forage species; a research project between Australia and Japan with an extended research grant (Japanese ¥3,000,000).	
Acid Soil Action, NSW, Australia. 1998-2002	\$50,000
Islam, M.A. and Dowling, P.M. Evaluation of <i>Austrodanthonia</i> accessions for acid tolerance and growth potential (AU \$70,000).	
Rural Industries Research and Development Corporation. 2001	\$8,500
Islam, M.A. Competitive funds from Rural Industries Research and Development Corporation, Canberra and the University of Sydney to attend the International Grassland Congress, Brazil, and to scientific visit to USA and UK (AU \$11,000).	
<u>Unsuccessful (Selected last five years)</u>	
NSF Track II Team Proposal. 2023-2027	\$6,000,000
Berti, M., Islam, M.A., and Gasch, C. et al. Teaming Up Against Climate Change (TEAM-ACE): A Concerted Effort to Advance Research Capacity and Develop Resilient Agricultural and Food Systems for Sustainable Communities.	
USDA NIFA Alfalfa and Forage Program. 2022-2025	\$899,801
Liang, X., Islam, M.A., Brummer, J., and Qin, R. Alfalfa-grass systems and irrigation strategies for improving productivity, stand persistence, profitability, and soil health in the West.	
Foundation for Food and Agriculture Research. 2021-2023	\$450,000
Schlautman, B., Basche, A., Islam, M.A., Krug, A.S., et al. Designing a sainfoin “next generation perennial pulse crop.” Building the basis for a directed domestication.	
USDA NIFA Foundational Knowledge of Ag Production Systems. 2020-2023	\$279,802
Kniss, A., Jabbour, R. Islam, M.A., Meador, M., and Adjewi, A. Should We Harvest the Weeds? Toward a Mechanistic Understanding of Biodiversity Impacts on Forage Crop Productivity and Nutritive Value.	
USDA NIFA Foundational Knowledge of Ag Production Systems. 2019-2022	\$279,802
Kniss, A., Jabbour, R. Islam, M.A., and Adjewi, A. Should We Harvest the Weeds? Toward a Mechanistic Understanding of Biodiversity Impacts on Forage Crop Productivity and Nutritive Value.	
National Alfalfa & Forage Alliance. 2019-2021	\$40,000
Min, D. and Islam, M.A. Effect of planting time and harvest interval on yield and nutritive value of low lignin alfalfa.	
USDA NIFA Sustainable Agricultural Systems; LOI. 2019-2024	\$10,000,000
Islam, M.A., Vigil, M., Del Grosso, S., Holman, J., Obour, A., Carr, P., Boss, D., Creech, C., Sexton, P.J., Graham, C., Stone, J., Kniss, A.R., Ritten, J.P., and Parker, S.D. Diversification	

of Semiarid Dryland Wheat-Based Cropping Systems with Annual Forages to Improve Crop Yields, Soil Health, and Profitability.

NAFA the U.S. Alfalfa Farmer Research Initiative Grant 2018 **\$40,000**

Islam, M.A. Sustainable Alfalfa Production through Efficient Management of Sulfur, Boron, and Harvest

Northwest Wyoming Applied Research Grant Program, AES, UW. 2018-2020 **\$10,000**

Islam, M.A., Schell, S., Reynolds, C., Klein, R., Hopkin, F., Faxon, J., and White, G. Improving alfalfa seed production through surveying and testing artificial propagation methods of alkali bee populations in northwest Wyoming.

Alfalfa Pollinator Research Initiative, USDA Agricultural Research Service - The National Alfalfa & Forage Alliance. 2018 **\$48,814**

Islam, M.A., Schell, S., Reynolds, C., Klein, R., Hopkin, F., Faxon, J., and White, G. Conduct survey and test artificial propagation methods on alkali bee populations in northwest Wyoming to increase alfalfa seed production.

NAFA the U.S. Alfalfa Farmer Research Initiative Grant 2017 **\$50,000**

Islam, M.A. Effects of Sulfur and Boron Mining and Cutting Interval on Alfalfa Production and Quality

Energy GA Fellowships, UW. 2017 **\$43,194**

Islam, M.A. Evaluation of some promising grass and legume genotypes for reclamation of disturbed areas used by gas industries in Wyoming.

USDA AMS - Specialty Crop Multi-State Program. 2016 **\$793,889**

Islam, M.A., Jeliaskov, V., Obour, A., Min, D. Fenugreek has Potential as Alternative Forage, Food, and Medicinal Crop.

Grant Writing Workshops Attended:

Grant Writers' Seminars and Workshops, by Stephen W. Russell

University of Wyoming, June 26, 2008

CSREES Grants Writing Workshop

Oklahoma State University, Still Water, OK, May 2008

Presentations:

Invited Extension Presentations (total 113):

In 2024 (total 1)

1. **Islam, M.A.** and Munkaila, M. 2024. Alfalfa-grass mixtures: Planting configurations and irrigation regimes can affect yield, quality, and economic returns. Southwest Hay & Forage Conference, 24-26 January 2024, Ruidoso, NM. Attendance: 75.

In 2023 (total 7)

7. Atiemo, M.* and **Islam, M.A.** 2023. Annual vs. perennial systems effects on productivity and soil health. SAREC Field Day, August 9, 2023, Lingle, WY. Attendance: 50.
6. Dey, S.* and **Islam, M.A.** 2023. Annual pea in rotation with wheat. SAREC Field Day, August 9, 2023, Lingle, WY. Attendance: 50.
5. Dhakal, S.* and **Islam, M.A.** 2023. Cutting time and nitrogen effect on alfalfa production. SAREC Field Day, August 9, 2023, Lingle, WY. Attendance: 50.

4. **Islam, M.A.**, Dhakal, S.*, and Shilpakar, C.* 2023. Roundup Ready Alfalfa Updates. SAREC Field Day, August 9, 2022, Lingle, WY. Attendance: 50.
3. **Islam, M.A.** and Shilpakar, C.* 2023. Forage Research Updates at Lingle. SAREC Field Day, August 9, 2023, Lingle, WY. Attendance: 50.
2. Shilpakar, C.*, and **Islam, M.A.** 2023. Forage legumes mixtures and their effects on soil health. SAREC Field Day, August 9, 2023, Lingle, WY. Attendance: 50.
1. **Islam, M.A.** 2023. Fertility and Harvest Management in Alfalfa for Sustainable and Profitable Production. Fremont County Farm and Ranch Days, 8 February 2023, Riverton, WY. Attendance: 67.

In 2022 (total 6):

6. **Islam, M.A.** and Shilpakar, C.* 2022. Updates of Forage Research at Lingle. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.
5. Shilpakar, C.*, and **Islam, M.A.** 2022. Forage legumes and their effects on soil health. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.
4. **Islam, M.A.** and Munkaila, M.* 2022. Roundup Ready Alfalfa. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.
3. Munkaila, M.* and **Islam, M.A.** 2022. Grass-legume mixtures. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.
2. Yakubu, A.* and **Islam, M.A.** 2022. Micronutrient effects on Alfalfa. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.
1. Yakubu, A.* and **Islam, M.A.** 2022. Annual vs. perennial systems. SAREC Field Day, August 10, 2022, Lingle, WY. Attendance: 45.

In 2021 (total 3):

3. **Islam, M.A.** 2021. The Potassium Needs of Alfalfa, Part 2. Alfalfa U Virtual Events, February 16, 2021, High Plains Journal. Attendance: 148.
2. **Islam, M.A.** 2021. Grazing Management-Systems and Methods. Agriculture and Horticulture Online Convention, January 4-5, 2021. Online Panel Discussion Session 2A, Production Agriculture, January 8, 2021, University of Wyoming Extension. Attendance: 12.
1. **Islam, M.A.** 2021. Grazing Management-Systems and Methods. Agriculture and Horticulture Online Convention, January 4–15, 2021. Online Panel Discussion Session 1A, Production Agriculture, January 7, 2021, University of Wyoming Extension. Attendance: 19.

In 2019 (total 3):

3. **Islam, M.A.** 2019. An Update of Forage Research at Lingle. SAREC Field Day, August 21, 2019, Lingle, WY. Attendance: 55.
2. **Islam, M.A.** 2019. Assessing Roundup Ready Alfalfa. SAREC Field Day, August 21, 2019, Lingle, WY. Attendance: 50.
1. **Islam, M.A.** 2019. Alfalfa Research Updates in WY. The 7th Annual Wyoming Forage Field Day, May 30, 2019. Park County Fairgrounds, Powell, WY. Attendance: 90.

In 2018 (total 6):

6. **Islam, M.A.** 2018. Integrated Research and Extension Work on Forage Crops. University of Wyoming Extension Specialist Meeting Seminar, December 10, 2018. University of Wyoming, Laramie, WY. Attendance: 25.
5. **Islam, M.A.** 2018. Potassium and Harvest Management in Alfalfa. The 6th Annual Wyoming Forage Field Day, June 12, 2018. James C. Hageman Sustainable Agriculture Research and Extension Center, Lingle, WY. Attendance: 100.

4. **Islam, M.A.**, Ashilenje, D., Baidoo, M., and Shilpakar, C. 2018. Forage Research Updates in Lingle. The 6th Annual Wyoming Forage Field Day, June 12, 2018. James C. Hageman Sustainable Agriculture Research and Extension Center, Lingle, WY. Attendance: 50.
3. **Islam, M.A.** 2018. Organic Forage Production: Options and Considerations. The 5th Annual High Plains Organic Farming Conference, February 28, 2018. Laramie County Community College, Cheyenne, WY. Attendance: 35.
2. **Islam, M.A.** 2018. Agronomy in Alfalfa. Alfalfa U – Loveland CO High Plains Journal, February 6, 2018. Loveland, CO. (*breakout presentation 2*) Attendance: 28.
1. **Islam, M.A.** 2018. Agronomy in Alfalfa. Alfalfa U – Loveland CO High Plains Journal, February 6, 2018. Loveland, CO. (*breakout presentation 1*) Attendance: 40.

In 2017 (total 2):

2. **Islam, M.A.** 2017. Alternative Forage Crop Options (forage sorghums, sainfoin, nitrate (prussic acid) poisoning of hybrid forage sorghum). High Plains Crop Convention, November 21, 2017. UWE Goshen County, Torrington, WY. Attendance: 21
1. **Islam, M.A.** 2017. Organic Forage Production: Can Alfalfa be Grazed Without Fear of Bloat? The 3rd Annual High Plains Organic Farming Conference, February 22, 2017. Laramie County Community College, Cheyenne, WY. Attendance: 45.

In 2016 (total 5):

5. **Islam, M.A.** 2016. Grass-legume Mixture for Forage Yield and Economic Benefits. Wyoming Forage Field Day, June 14, 2016. ShREC, WY. Attendance: 95.
4. **Islam, M.A.** 2016. Quinoa: A Potential Specialty Crop for Wyoming. Wyoming Master Gardener Association and Wyoming Farmers Market Association State Conference. April 1, 2016. Riverton, WY. Attendance: 23.
3. **Islam, M.A.** 2016. Fenugreek – A Specialty Crop: Some Pros and Cons. Wyoming Master Gardener Association and Wyoming Farmers Market Association State Conference. April 1, 2016. Riverton, WY. Attendance: 21.
2. **Islam, M.A.** 2016. Forage Variety Selection. Master Hay Grower, March 3, 2016. Cokeville, WY. Attendance: 27.
1. **Islam, M.A.** 2016. Agronomy in Alfalfa. Alfalfa U – Loveland CO High Plains Journal, February 25, 2016. Loveland, CO. Attendance: 54.

In 2015 (total 8):

8. Dhakal, D. and **Islam, M.A.** 2015. Grass-legume Mixture for Improved Forage Yield and Quality, Soil Properties, and Economic Return. SAREC Field Day, August 20, 2015. Lingle, WY. Attendance: 37.
7. Dhakal, D. and **Islam, M.A.** 2015. Grass-legume Mixture Trials under Pivot: An Update. ShREC Field Day, July 14, 2015. Sheridan, WY. Attendance: 35.
6. Dhakal, D. and **Islam, M.A.** 2015. Grass-legume Mixture for Improved Forage Yield, Forage Quality, Stand Persistence, and Economic Return. Wyoming Forage Field Day, June 11, 2015. Basin, WY. Attendance: 60.
5. **Islam, M.A.** 2015. Alternative Dryland Forage Crops. Northeast Wyoming Dryland Forage Workshop, March 27, 2015. Moorcroft, WY. Attendance: 35.
4. **Islam, M.A.** 2015. Dryland Alfalfa Varieties. Northeast Wyoming Dryland Forage Workshop, March 27, 2015. Moorcroft, WY. Attendance: 35.
3. **Islam, M.A.** 2015. Forage Variety Selection. Master Hay Grower, March 25, 2015. Fremont County Fair Grounds, Riverton, WY. Attendance: 20.

2. **Islam, M.A.** 2015. Grass Variety Selection. Master Hay Grower, March 24, 2015. Albany County Fairgrounds, Laramie, WY. Attendance: 29.
1. **Islam, M.A.** 2015. Variety Selection of Forage Crops. Hay Workshop, February 20, 2015. Pinedale, WY. Attendance: 45.

In 2014 (total 11):

11. **Islam, M.A.** 2014. Annual Forages: Species, Varieties, and Importance. Wyoming Beef Production Convention, November 18, 2014. Torrington, WY. Attendance: 40.
10. **Islam, M.A.** and Stump, W. 2014. Quinoa, A potential crop for Wyoming? Specialty Crop Workshop, November 1, 2014. Wheatland, WY. Attendance: 45.
9. **Islam, M.A.** 2014. Forage Crop Trials in Wyoming. LREC Field Day, August 28, 2014. Laramie, WY. Attendance: 45.
8. **Islam, M.A.** 2014. Quinoa Variety Trials in Wyoming. LREC Field Day, August 28, 2014. Laramie, WY. Attendance: 35.
7. **Islam, M.A.** 2014. Roundup Ready Alfalfa and Forage Trials: An Update. SAREC Field Day, August 21, 2014. Lingle, WY. Attendance: 37.
6. **Islam, M.A.** 2014. Economics of Tall Fescue Forage and Seed Production. PREC Field Day, July 17, 2014. Powell, WY. Attendance: 25.
5. **Islam, M.A.** 2014. Forage Establishment: Factors to Consider. Wyoming Forage Field Day, July 10, 2014. Eden Valley Community Center, Farson, WY. Attendance: 80.
4. **Islam, M.A.** 2014. Grass-Legume Mixtures and Grass Hay Production Studies. ShREC Field Day, June 14, 2014. Sheridan, WY. Attendance: 39.
3. **Islam, M.A.** 2014. Forage Variety Selection. Master Hay Grower, February 3, 2014. Agriculture Resource and Learning Center, Casper, WY. Attendance: 17.
2. **Islam, M.A.** 2014. Forage Crops Under Irrigation in Wyoming. Cattleman's Update, February 3, 2014. Albany County Fairgrounds, Laramie, WY. Attendance: 31.
1. **Islam, M.A.** 2014. Nutrient Management in Forage Crops. 2014 Wyoming Certification Rendezvous, January 22, 2014. Casper, WY. Attendance: 42.

In 2013 (total 8):

8. **Islam, M.A.** 2013. Roundup Ready Alfalfa Variety Trials. SAREC Field Day, August 22, 2013. Lingle, WY. Attendance: 25.
7. Dhakal, D. and **Islam, M.A.** 2013. Grass-legume Mixture: Production and Benefits. SAREC Field Day, August 22, 2013. Lingle, WY. Attendance: 25.
6. **Islam, M.A.** 2013. Species Selection for Irrigated Pastures. Pasture Management Professional Development Workshop, August 20-22, 2013. Fort Collins, CO. Attendance: 40.
5. **Islam, M.A.** 2013. Alfalfa Production and Management. Wyoming Forage Field Day, June 27, 2013. Lingle, WY. Attendance: 91.
4. Carter, C., Garcia-y-Garcia, A., Hansen, K., and **Islam, M.A.** 2013. Irrigation Practices in Alfalfa: Irrigation Methods, Water Use, and Economics. Wyoming Forage Field Day, June 27, 2013. Lingle, WY. Attendance: 91.
3. **Islam, M.A.** 2013. Establishment and Management of Alfalfa. Sheridan Research & Extension Center Field Day, June 15, 2013. Sheridan, WY. Attendance: 18.
2. **Islam, M.A.** 2013. Alfalfa: Establishment and Management. Sweetwater County Weed & Pest Workshop, March 20, 2013. Farson, WY. Attendance: 37.
1. **Islam, M.A.** 2013. New Forages Show Promise in Wyoming. Fremont County Farm & Ranch Days, January 30, 2013. Riverton, WY. Attendance: 25.

In 2012 (total 12):

12. **Islam, M.A.** 2012. Fenugreek research update. Field Day, Laramie Research and Extension Center, 30 August, 2012, Laramie, WY. Attendance: 45.
11. **Islam, M.A.** and Jolivet, M. 2012. Forage kochia research update. Field Day, Laramie Research and Extension Center, 30 August, 2012, Laramie, WY. Attendance: 45.
10. **Islam, M.A.** and Dhakal, D. 2012. Grass-legume mixture research update. Field Day, Laramie Research and Extension Center, 30 August, 2012, Laramie, WY. Attendance: 45.
9. **Islam, M.A.** and Wehmeyer, B. 2012. Tall fescue research update. Field Day, Laramie Research and Extension Center, 30 August, 2012, Laramie, WY. Attendance: 45.
8. **Islam, M.A.** 2012. Roundup ready alfalfa test and results. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, 23 August, 2012, Lingle, WY. Attendance: 35.
7. **Islam, M.A.** 2012. Alfalfa response to sulfur and boron. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, 23 August, 2012, Lingle, WY. Attendance: 35.
6. **Islam, M.A.** 2012. Alfalfa variety trials. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, 23 August, 2012, Lingle, WY. Attendance: 35.
5. **Islam, M.A.** 2012. Benefits from grass-legume mixtures. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, 23 August, 2012, Lingle, WY. Attendance: 35.
4. **Islam, M.A.** 2012. Genetics, variety development, and species selection. Pasture Management Professional Development Workshop, University of Idaho Nancy M. Cummings Research, Extension, and Education Center, August 21-23, 2012, North of Salmon, Idaho,. Attendance: 50.
3. Carter, C., Garcia, A, and **Islam, M.A.** 2012. Irrigation practices: Flood vs. sprinkler systems and cost analysis and economics. Wyoming Forage Field Day, Mile High Ranch, 28 June, 2012, Riverton, WY. Attendance: 55.
2. **Islam, M.A.** 2012. Forage variety selection. Wyoming Forage Field Day, Mile High Ranch, 28 June, 2012, Riverton, WY. Attendance: 55.
1. **Islam, M.A.** 2012. Forage establishment and management practices. Wyoming Forage Field Day, Mile High Ranch, 28 June, 2012, Riverton, WY. Attendance: 55.

In 2011 (total 11):

11. **Islam, M.A.**, and Wehmeyer, B. 2011. Tall fescue under irrigated conditions - update. Field Day, Sustainable Agricultural Research and Extension Center, 11 August, 2011, Laramie, WY. Attendance: 42.
10. **Islam, M.A.**, and Cecil, W. 2011. Fenugreek establishment and yield. Field Day, Laramie Research and Extension Center, 11 August, 2011, Laramie, WY. Attendance: 42.
9. **Islam, M.A.**, and Wehmeyer, B. 2011. Tall fescue under dryland conditions - update. Field Day, Sustainable Agricultural Research and Extension Center, 11 August, 2011, Laramie, WY. Attendance: 42.
8. **Islam, M.A.**, and Cecil, W. 2011. Fenugreek update. Field Day, Sustainable Agricultural Research and Extension Center, 21 July, 2011, Lingle, WY. Attendance: 35.
7. **Islam, M.A.** 2011. Forage legumes establishment. Field Day, Sustainable Agricultural Research and Extension Center, 21 July, 2011, Lingle, WY. Attendance: 35.
6. **Islam, M.A.** 2011. Grass-legume mixture: Benefits and economics. Field Day, Sustainable Agricultural Research and Extension Center, 21 July, 2011, Lingle, WY. Attendance: 35.

5. **Islam, M.A.** 2011. Turfgrass variety trials: Irrigated vs. dryland. Field Day, Sustainable Agricultural Research and Extension Center, 21 July, 2011, Lingle, WY. Attendance: 35.
4. **Islam, M.A.** 2011. Sainfoin: Establishment and production. Field Day, Powell Research and Extension Center, 14 July, 2011, Powell, WY. Attendance: 48.
3. **Islam, M.A.** 2011. Forage yield and seed yield potential of novel tall fescue. Field Day, Powell Research and Extension Center, 14 July, 2011, Powell, WY. Attendance: 48.
2. **Islam, M.A.** and Violett R. 2011. Forage yield and seed yield potential of novel tall fescue under irrigated condition in the Big Horn Basin of Wyoming. Wyoming Crop Improvement Association Annual Meetings, 3-4 February, 2011, Powell Research and Extension Center, Powell, WY. Attendance: 45.
1. **Islam, M.A.** 2011. Cool season grass evaluation: Some recent results. WESTI Ag Days, 1 February, 2011, Worland Community Center Complex, Worland, WY. Attendance: 11.

In 2010 (total 11):

11. **Islam, M.A.** 2010. Legume and grass trials: Some recent results. Wyoming Stock Growers Association Winter Roundup, Progressive Rancher Forum, 14 December, 2010, Parkway Plaza Hotel & Convention Centre, Casper, WY. Attendance: 39.
10. **Islam, M.A.** 2010. Fenugreek – A specialty crop establishment in South East Wyoming. Field Day, Laramie Research and Extension Center, 6 August 2010, Laramie, WY. Attendance: 35.
9. **Islam, M.A.** 2010. Mapping drought quantitative trait loci (QTL) in tall fescue. Field Day, Laramie Research and Extension Center, 6 August 2010, Laramie, WY. Attendance: 35.
8. Kimura, E. and **Islam, M.A.** 2010. Establishing forage legumes in Central West Regions/High Plains. Field Day, Laramie Research and Extension Center, 6 August 2010, Laramie, WY. Attendance: 35.
7. **Islam, M.A.**, Krall, J.M., and Nachtman, J.J. 2010. Fenugreek – A specialty crop establishment in South East Wyoming. Field Day, Sustainable Agricultural Research and Extension Center, 22 July 2010, Lingle, WY. Attendance: 50.
6. **Islam, M.A.** 2010. Cool-season grass evaluation at the Sustainable Agricultural Research and Extension Center. Field Day, Sustainable Agricultural Research and Extension Center, 22 July 2010, Lingle, WY. Attendance: 50.
5. **Islam, M.A.** 2010. Turfgrass performance under irrigated and dryland conditions. Field Day, Sustainable Agricultural Research and Extension Center, 22 July 2010, Lingle, WY. Attendance: 50.
4. Kimura, E. and **Islam, M.A.** 2010. Establishing forage legumes in Central West Regions/High Plains. Field Day, Sustainable Agricultural Research and Extension Center, 22 July 2010, Lingle, WY. Attendance: 50.
3. **Islam, M.A.** 2010. CRP farm renovation: Management and practices. Field Day, Del Tinsley Farm, 21 July 2010, Wheatland, WY. Attendance: 55.
2. **Islam, M.A.** 2010. Forage yield and seed yield potential of novel tall fescue under irrigated condition. Field Day, Powell Research and Extension Center, 8 July 2010, Powell, WY. Attendance: 45.
1. **Islam, M.A.** 2010. Forage crops: Establishment and management - some pros & cons. Forage Workshops in the Northeast Wyoming, 9-11 March 2010 Gillette, WY. Attendance: 35 (Keynote speaker, 4 hours talk).

In 2009 (total 11):

11. **Islam, M.A.** 2009. Mapping drought quantitative trait loci (QTL) in tall fescue. Field Day, Laramie Research and Extension Center, 28 August 2009, Laramie, WY. Attendance: 40.
10. Kimura, E. and **Islam, M.A.** 2009. Establishing forage legumes in Central West Regions/High Plains. Field Day, Laramie Research and Extension Center, 28 August 2009, Laramie, WY. Attendance: 40.
9. **Islam, M.A.** 2009. Best management practices for fertility and pest control in alfalfa for hay. Wyoming Ag-Business Convention, 4-5 August 2009, Sheridan, WY. Attendance: 55.
8. **Islam, M.A.** 2009. Best management practices for fertility and pest control in grass for hay. Wyoming Ag-Business Convention, 4-5 August 2009, Sheridan, WY. Attendance: 55.
7. **Islam, M.A.** 2009. Forage crop evaluation at the Sustainable Agricultural Research and Extension Center. Field Day, Sustainable Agricultural Research and Extension Center, 23 July 2009, Lingle, WY. Attendance: 55.
6. Kimura, E. and **Islam, M.A.** 2009. Establishing forage legumes in Central West Regions/High Plains. Field Day, Sustainable Agricultural Research and Extension Center, 23 July 2009, Lingle, WY. Attendance: 55.
5. **Islam, M.A.** 2009. Forage yield and seed yield potential of novel tall fescue under irrigated condition. Field Day, Powell Research and Extension Center, 9 July 2009, Powell, WY. Attendance: 50.
4. **Islam, M.A.** 2009. Creeping and meadow foxtail: Adaptation, use, and management. Medicine Bow Conservation District Annual Winter Workshop, 27 February 2009, Medicine Bow, WY. Attendance: 50.
3. **Islam, M.A.** and Groose, R.W. 2009. New developments in forage legumes, especially in alfalfa. Range and Pasture Management Workshop, Powell Research and Extension Center, 24 February 2009, Powell, WY. Attendance: 45.
2. **Islam, M.A.** and Norton, J.B. 2009. Interseeding legumes in hay and pasture. Fremont County Farm and Ranch Days, 5 February 2009, Riverton, WY. Attendance: 65.
1. **Islam, M.A.** and Groose, R.W. 2009. New developments in forage legumes. WESTI Ag Days, 3-4 February 2009, Worland, WY. Attendance: 60 (2 talks).

In 2008 (total 5):

5. **Islam, M.A.** 2008. Pasture renovation: Value of fertilization and reseeding. The Society for Range Management Wyoming Section and Soil and Water Conservation Society joint annual meeting, 18-20 November 2008, Cheyenne, WY. Attendance: 105.
4. **Islam, M.A.** 2008. Pasture renovation: Establishment, reseeding, and interseeding. The Society for Range Management Wyoming Section and Soil and Water Conservation Society joint annual meeting, 18-20 November 2008, Cheyenne, WY. Attendance: 100.
3. **Islam, M.A.** 2008. Grazing performance of annual versus perennial cool-season grass system. University of Wyoming Animal Science Seminar Series, 7 November 2008, UW, Laramie, WY. Attendance: 60.
2. **Islam, M.A.** 2008. Economics: is annual or perennial a better grass system? Field Demonstration for College Students' Field Trip with teachers (South Dakota State University) at the Noble Foundation, Ardmore, OK, May 13, 2008. Attendance: 10.
1. **Islam, M.A.**, Butler, T.J., Hopkins, A.A. and Bouton, J.H. 2008. Grazing performance: Conventional annual rye vs. perennial tall fescue systems. Field Demonstration for NCCC-31 Meeting at the Noble Foundation, Ardmore, OK, March 13, 2008. Attendance: 55.

In 2007 (total 3):

3. **Islam, M.A.** and Butler, T.J. 2007. Tifton 85 bermudagrass: a superior warm-season grass to Coastal bermudagrass. Field Day at the Ole Butler's Farm, Vashti, TX, July 12, 2007. Attendance: 70.
2. **Islam, M.A.** 2007. Comparison of economics between cool-season annual and perennial grazing system. College Students' Field Trip Tour Class (A Multi-University Approach to Grazinglands) presentation and discussion at the Noble Foundation, Ardmore, OK, June 14, 2007. Attendance: 35.
1. **Islam, M.A.** 2007. Is cool-season perennial grass system better than traditional cool-season annual grass system for grazing? Field day at the Noble Foundation, Ardmore, OK, January 19, 2007. Attendance: 50.

Wyoming Forage Field Day (Organized and Hosted at different locations based on producers' questions and demands; average attendance over 100 each year; since 2012)

(Programs include workshop/presentation, producers' panel discussion, forage plots demonstration, forage equipment and products demonstration; programs can be viewed at [Wyoming Forage Field Day](#))

8. Laramie Research and Extension Center, Laramie, WY, June 18, 2020 (postponed until 2023 due to COVID-19 pandemic).
7. Park County Fairgrounds, Powell, WY, May 30, 2019. Attendance: 90.
6. James C. Hageman Sustainable Agriculture Research and Extension Center, Lingle, WY, June 12, 2018. Attendance: 140.
5. Sheridan Research and Extension Center, Sheridan, WY, June 14, 2016. Attendance: 130.
4. Big Horn County Fairgrounds, Basin, WY, June 11, 2015. Attendance: 105.
3. Eden Valley Community Center, Farson, WY, July 10, 2014. Attendance: 110.
2. James C. Hageman Sustainable Agriculture Research and Extension Center, Lingle, WY, June 27, 2013. Attendance: 125.
1. Mile High Ranch, Riverton, WY, June 28, 2012. Attendance: 115.

Oral Presentations at Professional Meetings (since 2006; total 108; 37 are international; *graduate student):

108. Kareem, M.*, Idowu, J, Ortega-Carranza, J., **Islam., M.A.**, and Li, X. 2026. Effects of Soil Amendment, Green Manure, and Tillage Practices on Soil Microbiome Structure in Sorghum. The ASA-CSSA-SSSA International Annual Meetings, November 1-4, 2026. Portland, OR. Attendance: 45.
107. Tetteh, R.*, Idowu, O.J., Cramer, C.S., Marsalis, M.A., and **Islam, M.A.** 2026. Soil Health Impacts of Perennial Grasses Used in Rotation with Onion Under Irrigated Arid Conditions. The ASA-CSSA-SSSA International Annual Meetings, November 1-4, 2026. Portland, OR. Attendance: 39.
106. **Islam, M.A.** and Mukaila, M.* 2026. Planting Design and Irrigation in Alfalfa–Grass Mixtures. Tear Down the Walls Annual Meeting at University of Wyoming, August 17-18 2026. Laramie, WY. Attendance: 30.
105. **Islam, M.A.** and Mukaila, M.* 2026. Planting configuration and irrigation effects on alfalfa–grass mixture performance. 2026 Western Society of Crop Science Annual Conference, June 23-24, 2026, Fairbanks, AK. Attendance: 45

104. Holbrook, D., Shilpakar, C.*, **Islam, M.A.**, Heward, T., Nazzoro, V., and Trettin, D. 2024. Regenerative grazing and carbon sequestration on natural and reclaimed landscapes in Shirley Basin, Wyoming. Waste Management Conference, March 10-14, 2024, Phoenix, AZ.
103. **Islam, M.A.** and Mukaila, M.* 2023. Planting configurations and irrigation regimes affect yield, quality, and economic returns of alfalfa-grass mixtures. 2023 Western Alfalfa and Forage Symposium, December 10-12, 2023, Sparks, NV. Attendance: 120
102. Shilpakar, C.*, Yang, D., Holbrook, D., and **Islam, M.A.** 2023. Effect of land management, above-ground, and below-ground properties on soil carbon in reclaimed grassland. The ASA-CSSA-SSSA International Annual Meetings, October 29-November 1, 2023. St. Louis, MO. Attendance: 35
101. Shilpakar, C.* Holbrook, D., and **Islam, M.A.** 2023. Land cover change in reclaimed grassland based on USFS landscape change monitoring system time series (1985-2020). Western Society of Crop Science Annual Meetings, June 26-28, 2023. Honolulu, HI. Attendance: 63
100. Dey, S.* and **Islam, M.A.** 2023. Performance of potato cultivars in rotation with winter pea. Western Society of Crop Science Annual Meetings, June 26-28, 2023. Honolulu, HI. Attendance: 63
99. **Islam, M.A.** and Baidoo, M.* 2022. Alfalfa Response to P and K in Association with Calcium, Magnesium, and Harvest Time. 2022 World Alfalfa Congress, November 14-17, 2022, San Diego, California. Attendance: 400
98. **Islam, M.A.** and Ashilenje, D.* 2022. Grass-legume Mixtures and Nitrogen Fertilizers Can Affect Trace Gas Emission and Soil Microbial Biomass. The 8th International Greenhouse Gas & Animal Agriculture Conference, June 5-9, 2022, Orlando, Florida. Attendance: 50
97. Baidoo, M.* and **Islam, M.A.** 2021. Phosphorus and Potassium Effect on Alfalfa in Relation to Calcium and Magnesium under Different Harvest Times. The ASA-CSSA-SSSA International Annual Meetings, November 7-10, 2021. Salt Lake City, UT. Attendance: 40.
96. Qin, R., Torabian, S., Wang, G., Keshavarz Afshar, R., Liang, X., **Islam, M.A.**, and Brummer, J. E. 2021. Forage biomass under different alfalfa-grass configurations and irrigation regimes. The ASA-CSSA-SSSA International Annual Meetings November 7-10, 2021. Salt Lake City, UT. Attendance: 40.
95. **Islam, M.A.** and Ashilenje, D.* 2021. Grass-legume mixtures for diversified and profitable forage production. Joint International Grassland & International Rangeland Kenya 2021 Virtual Congress, October 25-29, 2021. Attendance: 35.
94. **Islam, M.A.** and Baidoo, M.* 2021. Alfalfa Response to Phosphorus and Potassium in Association with Calcium, Magnesium, and Harvest Management. Northwest Forage Workers Conference and WERA 1014 Meeting, July 27, 2021. Prosser, WA. Attendance: 20.
93. **Islam, M.A.** and Baidoo, M.* 2021. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. Alfalfa Response to Phosphorus and Potassium in Association with Calcium, Magnesium, and Harvest Management. Virtual meetings, July 21, 2021. Attendance: 21.
92. Baidoo, M.* and **Islam, M.A.** 2021. Alfalfa Response to Phosphorus and Potassium in Association with Calcium, Magnesium, and Harvest Management. The Western Society of Crop Science Annual Meetings (Virtual) June 22-23, 2021. Attendance: 30.

91. Shilpakar, C.* and **Islam, M.A.** 2021. Qualitative vegetation analysis of reclaimed grassland in Shirley Basin, Wyoming. The Western Society of Crop Science Annual Meetings (Virtual) June 22-23, 2021. Attendance: 30.
90. Baidoo, M.* and **Islam, M.A.** 2020. Potassium, Cultivar, and Harvest Management Effects on Alfalfa Productivity. The ASA-CSSA-SSSA International Annual Meetings (Virtual) November 9-13, 2020. Attendance: 32.
89. **Islam, M.A.** 2020. Effect of species, planting time, and growing conditions on establishment and performance of cool-season grasses and legumes. W3012 - Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes Virtual Meeting, July 30, 2020. Attendance: 19.
88. **Islam, M.A.** 2020. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. Effect of species, planting time, and growing conditions on establishment and performance of cool-season grasses and legumes. Virtual meetings, July 22-23, 2020. Attendance: 20.
87. Shilpakar, C.* and **Islam, M.A.** 2020. Effect of species, planting time, and growing conditions on establishment and performance of cool-season grasses and legumes. The Western Society of Crop Science Annual Meetings (Virtual) July 7-8, 2020. Attendance: 29.
86. Baidoo, M.* and **Islam, M.A.** 2020. Forage Yield Response of Alfalfa to Potassium, Cultivar, and Harvest Time. Proceedings of the Western Society of Crop Science Annual Meetings (Virtual) July 7-8, 2020. Attendance: 29.
85. Lee, B.P., Ritten, J.P., **Islam, M.A.**, Herreid, J.S.*, and Jabbour, R. 2020. Harvest Timing for Alfalfa Weevil Control. The Western Agricultural Economics Association Annual Meeting June 28-30, 2020. Santa Fe, NM. Attendance: 21.
84. Herreid, J.S.*, Lee, B.P., **Islam, M.A.**, Ritten, J.P., and Jabbour, R. 2020. Effects of harvest timing on alfalfa weevil. The Entomological Society of America Pacific Branch Annual Meeting April 19-22, 2020. Spokane, WA. Attendance: 23.
83. **Islam, M.A.** and Baidoo, M.* 2019. Potassium and Harvest Time Affect Forage Production, Nutritive Value, and Potassium Uptake of Alfalfa. The ASA-CSSA-SSSA International Meetings November 10-13, 2019. San Antonio, TX. Attendance: 32.
82. **Islam, M.A.** 2019. WERA 1014 Regional Project Report: On-going/Completed Research. University of Idaho, Nancy M. Cummings Research, Extension, and Education Center, Salmon, ID, October 15-16, 2019. Attendance: 27.
81. **Islam, M.A.** 2019. Effect of Potassium and Harvest Time on Forage Production, Nutritive Value, and Potassium Uptake of Alfalfa: An Update. W2012 - Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes Meetings, July 25-26, 2019. MSU Northern Agriculture Research Center, Havre, MT. Attendance: 25.
80. **Islam, M.A.** 2019. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. University of Wisconsin, July 17-18 2019. Madison, WI. Attendance: 22.
79. **Islam, M.A.** 2018. Diversified Forage Cropping Systems: Impacts on Resiliency, Productivity, and Profitability. Department of Plant Sciences Seminar December 7, 2018. University of Wyoming, Laramie, WY. Attendance: 23.
78. Baidoo, M.* and **Islam, M.A.** 2018. Response of Alfalfa Cultivars to Potassium Application and Harvest Time. The ASA-CSSA International Annual Meetings November 7, 2018. Baltimore, MD. Attendance: 37.

77. **Islam, M.A.** 2018. Response of Alfalfa to Soil Potassium, Cultivars, and Harvesting Intervals. The International Congress and Expo on Agriculture and Horticulture August 14, 2018. Amsterdam, Netherlands. Attendance: 55.
76. **Islam, M.A.** 2018. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. University of Arkansas, June 21 2017. Fayetteville, AR. Attendance: 20.
75. Baidoo, M.* and **Islam, M.A.** 2018. Effect of Potassium and Harvest Time on Forage Accumulation and Potassium Uptake of Alfalfa. The Western Society of Crop Science Annual Meetings June 20, 2018. Laramie, WY. Attendance: 35.
74. Ashilenje, D.S.* and **Islam, M.A.** 2018. Plant community structure and nitrogen dynamics underlie sustained productivity of grass-legume forage mixtures in Wyoming. The Western Society of Crop Science Annual Meetings June 20, 2018. Laramie, WY. Attendance: 35.
73. Khatiwadala, B., Acharya, S.N., Larney, F., Lupwayi, N.Z., Smith, E., and **Islam, M.A.** 2018. Ability of sainfoin and cicer milkvetch populations to rejuvenate existing pastures in western Canada. The Western Society of Crop Science Annual Meetings June 20, 2018. Laramie, WY. Attendance: 35
72. **Islam, M.A.** 2018. The silent decline in soil potassium levels and its effect on alfalfa productivity in the Central and Western U.S. The North American Alfalfa Improvement Conference Annual Meetings June 6, 2018. Logan, UT. Attendance: 95.
71. **Islam, M.A.** 2017. WERA 1014 Regional Project Report: On-going/Completed Research. University of Nevada, December 1 2017. Reno, NV. Attendance: 20.
70. **Islam, M.A.** 2017. Plant Diversity and Physiology for Efficient and Sustainable Agricultural Production: USA, Japan, and Global Perspectives. The 2nd Japan-US Science Forum International Conference November 18, 2017. Harvard University, Boston, MA. (*Invited presentation*) Attendance: 75.
69. Ashilenje, D.S.* and **Islam, M.A.** 2017. Profiling canopy light interception and growth forms to predict forage yield and nutritive value for meadow bromegrass-alfalfa mixtures. ASA-CSSA-SSSA International Meetings. October 23, Tampa, FL. (*Oral PhD Student Competition*) Attendance: 53.
68. **Islam, M.A.** 2017. Evaluation of birdsfoot trefoil: Planting method, harvesting frequency, and cultivar. W2012 - Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes Meetings, August 7-10, 2017. Eastern Oregon Agricultural Research Center, Oregon State University, Burns, OR. Attendance: 22.
67. **Islam, M.A.** 2017. Forage Research at UW, USA: Germplasm Search, Evaluation, and Cultivar Development. Department Seminar, The University of Sydney, Sydney Institute of Agriculture, Australia. July 28, 2017 Australian Technology Park, Sydney, Australia. (*Invited presentation*) Attendance: 35.
66. **Islam, M.A.** 2017. Legume adoption practices in the central great plains of USA for sustainable agricultural production in the face of climate change. The 2nd International Conference on Plant Science and Physiology June 27, 2017 Bangkok, Thailand (Conference Series Limited, UK). (*Invited presentation*) Attendance: 45.
65. **Islam, M.A.** 2017. Understanding Plant Diversity and Physiology for Resilient Production Systems and Environmental Benefits. The 2nd International Conference on Plant Science and Physiology June 26, 2017 Bangkok, Thailand (Conference Series Limited, UK). (*Invited Keynote Speaker*) Attendance: 45.

64. **Islam, M.A.** 2017. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. University of Lincoln, Nebraska, June 20-22 2017. Lincoln, NE. Attendance: 27.
63. **Islam, M.A.** 2016. Managing Plant Diversity for Resilient Forage Systems and Environmental Benefits. Symposium - Resiliency in Forages and Grazinglands ASA-CSSA-SSSA International Meetings. November, 8, Phoenix, AZ. (*Invited presentation*) Attendance: 52.
62. **Islam, M.A.** 2016. Grazing Alfalfa without a Fear of Bloat: A Seminar on Sabbatical Work in Canada. Department of Plant Sciences Seminar, October 28, 2016. UW, WY. Attendance: 33.
61. **Islam, M.A.** 2016. WERA 1014 Regional Project Report: On-going/Completed Research. Colorado State University, Jefferson County Extension Office, October 19-20 2016. Golden, CO. Attendance: 29.
60. **Islam, M.A.** 2016. Grass-Legume Mixtures: Yield, Quality, and Benefit. W2012 - Enhancing management, production, and sustainability of grazing ruminants in extensive landscapes Meetings, August 7-10, 2016. Panhandle Research and Extension Center, UNL, NE. Attendance: 25.
59. **Islam, M.A.** and Aryal, P.* 2016. Planting Time and Grass Mixtures Affect Forage Kochia Establishment. International Rangeland Congress, July 17-22, 2016. Saskatoon, Saskatchewan, Canada. (*Invited presentation*) Attendance: 47.
58. **Islam, M.A.** 2016. Forage Crop Research at UW, USA: Germplasm Search, Evaluation, and Cultivar Development. Agriculture and Agri-Food Canada Lethbridge Research Center Seminar. April 21, 2016. Lethbridge, Canada. (*Invited presentation*) Attendance: 46.
57. **Islam, M.A.** 2016. Summer Experience in Japan: People, Culture, Education, and Research. Department of Plant Sciences Seminar, February 19, 2016. UW, WY. Attendance: 31.
56. **Islam, M.A.** and Adjesiwor, A.T.* 2015. Grass, legumes, and grass-legume mixtures: Yield, nutritive value, and soil water use. Western Alfalfa and Forage Symposium December 3-4 2015. Reno, NV. (*Invited presentation*) Attendance: 97.
55. Dhakal, D.* and **Islam, M.A.** 2015. Grass-Legume Mixtures for Improved Yield, Quality, Persistence, and Economic Return. ASA-CSSA-SSSA International Annual Meetings November 16 2015. Minneapolis, MN. Attendance: 50.
54. Nilahyane, A.*, **Islam, M.A.**, Garcia y Garcia, A., and Mesbah, A.O. 2015. Effect of Irrigation and Nitrogen Rates on Yield and Quality of Corn for Silage. ASA-CSSA-SSSA International Annual Meetings November 16 2015. Minneapolis, MN. (*Robert F Barnes Graduate Student Oral Contest for PhD students in the C-6 division.) Attendance: 50.
53. **Islam, M.A.** 2015. WERA 1014 Regional Project Report: On-going/Completed Research. Oregon State University, Corvallis, October 20-23 2015. Corvallis, OR. Attendance: 30.
52. **Islam, M.A.** 2015. Agronomic Performance of High Value Crops in High Tunnel in Wyoming, USA. An invited presentation at the International Conference of Agronomy and Horticulture, Shanghai August 26 2015. Shanghai, China. Attendance: 25.
51. **Islam, M.A.** 2015. Forage Crop Research in Wyoming, USA. An invited presentation at the Hokkaido Agricultural Research Center, Sapporo August 5 2015. Hokkaido, Japan. Attendance: 11.
50. **Islam, M.A.** 2015. Forage Crop Production and Soil Health: Some Biological Perspectives. An invited presentation at the Muroran Marine Station, Hokkaido University June 25 2015. Hokkaido, Japan. Attendance: 25.

49. **Islam, M.A.** 2015. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. Texas Tech University, May 26-28 2015. Lubbock, TX. Attendance: 25.
48. **Islam, M.A.** 2014. Fenugreek and Its Multipurpose Use. An invited presentation at the UW Botany Department December 12 2014. Laramie, WY. Attendance: 30.
47. **Islam, M.A.** 2014. Forage Crop Production and Culture in Japan. The Japan Society for the Promotion of Science-US Alumni Association 5th Multidisciplinary Science Forum International Annual Meetings November 7 2014. University of Florida, Gainesville, FL. Attendance: 45.
46. **Islam, M.A.** 2014. WERA 1014 Regional Project Report: On-going/Completed Research. University Inn, Utah State University, October 27-28 2014. Logan, UT. Attendance: 35.
45. **Islam, M.A.** 2014. Fenugreek: A Specialty Crop with Many Uses. An invited presentation at the Colorado State University October 16 2014. Fort Collins, CO. Attendance: 20.
44. **Islam, M.A.** 2014. Grass-Legume Mixtures. Tear Down the Walls Annual Meeting at Western Nebraska Community College, August 13-14 2014. Sidney, NE. Attendance: 25.
43. **Islam, M.A.** 2014. Wyoming NCCC-31 Report-Ecophysiological Aspects of Forage Management. Kellogg Biological Station, June 17-19 2014. Hickory Corners, MI. Attendance: 32.
42. **Islam, M.A.** 2014. Wyoming Chapter Gamma Sigma Delta. GSD Conclave at University of Nebraska-Lincoln, June 2-4 2014. Lincoln, NE. Attendance: 42.
41. **Islam, M.A.** 2014. Grass and Forage Research at the University of Wyoming, USA. An invited presentation at the Miyazaki University March 19 2014. Miyazaki, Japan. Attendance: 12.
40. **Islam, M.A.** 2014. Fenugreek has potential for multipurpose use. An invited presentation at the Tokyo University March 10 2014. Tokyo, Japan. Attendance: 17.
39. **Islam, M.A.** 2014. Multipurpose use of forage crops: Germplasm search and evaluation for cultivar development. An invited presentation at the Hokkaido University March 7 2014. Hokkaido, Japan. Attendance: 19.
38. **Islam, M.A.** 2014. Multipurpose use of forage crops: Germplasm search and evaluation. An invited presentation at the 267th Asia Seminar at the Hiroshima University February 24 2014. Hiroshima, Japan. Attendance: 29.
37. **Islam, M.A.** 2013. Fenugreek has potential to use as a forage crop. Western Alfalfa and Forage Symposium December 11-13 2013. Reno, NV. Attendance: 93.
36. **Islam, M.A.** 2013. Multipurpose use of forage crops: Germplasm search, evaluation, and cultivar development. Plant Sciences Seminar November 8 2013. Department of Plant Sciences, University of Wyoming, Laramie, WY. Attendance: 29.
35. **Islam, M.A., Saha, M.C., and Wehmeyer, B.A.** 2013. Drought stress affects agronomic performance of tall fescue genotypes. ASA-CSSA-SSSA International Annual Meetings November 3-6 2013. Tampa, FL. Attendance: 69.
34. **Dhakal, D.* and Islam, M.A.** 2013. Grass-legume mixtures to mitigate nitrogen need and improve soil properties in the Great Plains of Wyoming. ASA-CSSA-SSSA International Annual Meetings November 3-6 2013. Tampa, FL. Attendance: 67.
33. **Islam, M.A.** 2013. Forage Crop Research in Wyoming for Ruminant Use. W1012 - Improving Ruminant Use of Forages in Sustainable Production Systems for the Western US Meetings, October 14-17, 2013. Las Cruces, NM. Attendance: 21.
32. **Islam, M.A.** 2013. Research Update: Forage Research at SAREC. Pacific North West Forage Workers and WERA 1014 Conference, October 7-8, 2013. Laramie, WY. Attendance: 39.

31. **Islam, M.A.**, and Saha, M.C. 2013. Agronomic traits in tall fescue populations under irrigated and rain-fed conditions. The 22nd International Grassland Congress, September 15-19, 2013. Sydney, Australia. Attendance: 127.
30. **Islam, M.A.** 2013. Tall Fescue Response to Dryland and Irrigated Conditions. Tear Down the Walls Annual Meeting, August 14-15, 2013. Colby, KS. Attendance: 29.
29. **Islam, M.A.** 2013. Forage Research in Wyoming. NCCC 31 - Ecophysiological Aspects of Forage Management Meetings, June 4-6, 2013. Lexington, KY. Attendance: 27.
28. **Islam, M.A.** and Wehmeyer, B.A. 2013. Biofuel and forage potential of cool-season grass genotypes. The Japan Society for the Promotion of Science-US Alumni Association 3rd Multidisciplinary Science Forum International Annual Meetings February 1 2013. Chapman University, Orange, CA. Attendance: 35.
27. **Islam, M.A.**, and Violett, R. 2012. Effect of Nitrogen and Clipping on Forage and Seed Yield of Tall Fescue. ASA-CSSA-SSSA International Annual Meetings October 21-24 2012. Cincinnati, OH. Attendance: 27.
26. **Islam, M.A.** 2012. Wyoming WERA-1014 Report: Pacific North West Forage Workers and WERA 1014 Conference, October 1-3, 2012, Kimberly, ID. Attendance: 30.
25. **Islam, M.A.** 2012. CAP Proposal: Reviewers' comments, discussion, and future plan. "Tear Down the Walls" Annual Meeting, August 15-16, 2012, James C. Hageman Sustainable Agriculture Research and Extension Center (SAREC), University of Wyoming, WY. Attendance: 37.
24. **Islam, M.A.** 2012. Fenugreek in semiarid environment. "Tear Down the Walls" Annual Meeting, August 15-16, 2012, James C. Hageman Sustainable Agriculture Research and Extension Center (SAREC), University of Wyoming, WY. Attendance: 35.
23. **Islam, M.A.** 2012. Wyoming NCCC-31 Report: Ecophysiological aspects of forage management. NCCC-31 National Annual Meetings, 19-21 June 2012, Ramada Mall of America, Bloomington, MN. Attendance: 25.
22. **Islam, M.A.** 2012. An Update of Forage Legumes Research in Wyoming. Animal Science Seminar Series, January 27, 2012, Department of Animal Sciences, UW, WY. Attendance: 35.
21. **Islam, M.A.** and Kimura, E. 2011. Scarification method and storage time affect hard seed and germination of forage legumes. Japan Society for the Promotion of Science-US Alumni Association Multidisciplinary Science Forum International Annual Meetings 28 October 2011. Western Michigan University Kalamazoo, MI. Attendance: 65.
20. **Islam, M.A.** 2011. Fenugreek: What is it? Can we grow it in Wyoming? UW Department of Plant Sciences Seminar Series, 21 October 2011, Department of Plant Sciences, University of Wyoming. Attendance: 31.
19. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., and Baumgartner, R.E., Bandara, M., and Acharya, S.N. 2011. Evaluation of fenugreek for forage and seed yield potential in Wyoming. ASA-CSSA-SSSA International Annual Meetings October 16-19 2011. San Antonio, TX (American Society of Agronomy, Crop Science Society of America, Soil Science Society of America). Attendance: 35.
18. **Islam, M.A.** 2011. Sustaining legumes in grasslands to reduce nitrogen fertilization: A multi-regional assessment. "Tear Down the Walls" Annual Meeting -ASA High Plains Dryland Cropping Systems Community Meeting, August 11-12, 2011, USDA-ARS Platte Conference Room, Fort Collins, CO. Attendance: 21.

17. **Islam, M.A.** 2011. Wyoming WERA-1016 Report: Adaptation, quality and management of sustainable cellulosic biofuel crops in the West, WERA-1016 National Annual Meetings, June 20 – 22, 2011, WSU-IAREC Prosser, WA. Attendance: 28.
16. **Islam, M.A.** 2011. Wyoming NCCC-31 Report: Ecophysiological aspects of forage management. NCCC-31 National Annual Meetings, 30-31 March 2011, Purdue University Beck Center, IN. Attendance: 23.
15. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., Baumgartner, R.E., and Bandara, M. 2011. Assessment of fenugreek: A new specialty crop. Japan Society for the Promotion of Science-US Alumni Association Multidisciplinary Science Forum International Annual Meetings 11-12 March 2011. Seattle, WA. Attendance: 60.
14. **Islam, M.A.**, Saha, M.C., Baumgartner, R.E., and Nachtman, J.J. 2010. Seed yield potential of tall fescue germplasm in the Great Plains of Wyoming. ASA-CSSA-SSSA International Annual Meetings, 31 October – 3 November 2010. Long Beach, CA. Attendance: 90.
13. Kimura, E., Krall, J.M., Hess, B.W., and **Islam, M.A.** 2010. Seed scarification and a companion crop may enhance forage legume establishment in the Central West regions of USA. ASA-CSSA-SSSA International Annual Meetings, 31 October - 3 November 2010. Long Beach, CA. Attendance: 90.
12. Kimura, E. and **Islam, M.A.** 2010. Enhancing forage legumes establishment through seed scarification and use of companion crop in the high plains of Wyoming. American Forage and Grassland Council Annual Meetings, 21-23 June 2010, Springfield, MO. Attendance: 100. (*Emerging Scientist Competition; won 3rd place*).
11. **Islam, M.A.** 2010. Wyoming NCCC-31 Report: Ecophysiological aspects of forage management. NCCC-31 National Annual Meetings, 31 March – 1 April 2010, Hilton Garden Inn, Blacksburg, VA. Attendance: 19.
10. **Islam, M.A.** 2009. Wyoming NCCC-31 Report: Ecophysiological aspects of forage management. NCCC-31 National Annual Meetings, 24 June 2009, Grand Rapids, MI. Attendance: 21.
9. **Islam, M.A.**, Butler, T.J., Hopkins, A.A., Biermacher, J.T., Cook, B.J. and Bouton, J.H. 2008. Grazing performance of annual versus perennial grass system. Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, and the Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM International Annual Meetings, 5-9 October 2008, Houston, TX. Attendance: 71.
8. Biermacher, J.T., **Islam, M.A.**, Butler, T.J., Hopkins, A.A., Cook, B.J., Reuter, R. and Bouton, J.H. 2008. Value of tall fescue infected with a novel endophyte in the winter forage stocker grazing enterprise. The Western Agricultural Economics Association's Annual Meeting, 25-27 July, 2008, Big Sky, MT. Attendance: 70.
7. **Islam M.A.** 2008. Stocker grazing performance of annual and perennial grass systems. Inter-divisional Seminar at the Noble Foundation, 19 May, 2008, Ardmore, OK. Attendance: 88.
6. **Islam, M.A.**, Butler, T.J., Hopkins, A.A., Biermacher, J.T., Cook, B.J. and Bouton, J.H. 2008. Comparison of cereal rye/annual ryegrass and tall fescue stocker grazing systems in the southern Great Plains of USA. Fifth International Crop Science Congress. 13-18 April 2008, Jeju, Korea. Attendance: 100.
5. **Islam M.A.** 2007. Grazing performance of annual versus perennial grass system. Inter-divisional Seminar at the Noble Foundation, 14 May, 2007, Ardmore, OK. Attendance: 78.

4. **Islam, M.A.**, Butler, T.J., Biermacher and Cook, B.J. 2007. Grazing economics of annual versus perennial grass system – Inter-divisional project. Field Day Meetings at the Noble Foundation, 12 April 2007, Ardmore, OK. Attendance: 75.
3. **Islam, M.A.**, Butler, T.J., Biermacher, J.T., Cook, B.J., Hopkins, A.A. and Bouton, J.H. 2006. Grazing economics of perennial versus annual grass system. Third National Conference on Grazing Lands, 10-13 December 2006. St. Louis, MO. Attendance: 60.
2. **Islam, M.A.**, Butler, T.J., Bushong, J.T. and Rowland, M.W. 2006. Effect of *Rhizobia* inoculants on wild bean. ASA-CSSA-SSSA International Annual Meetings 12-16 November 2006. Indianapolis, IN. Attendance: 75.
1. **Islam M.A.** 2006. Evaluation of wild bean. Inter-divisional Seminar at the Noble Foundation, 15 May, 2006, Ardmore, OK. Attendance: 70.

Poster Presentations at Professional Meetings/Field Days (since 2000; total 82; *Graduate Student):

82. Tetteh, R.*, Okunkenu, A.S., Fademi, I., Omer, M.N., Cramer, C.S., Ojkanmi, A., **Islam, M.A.**, Marsalis, M.A., and Idowu, O.J. 2025. Productivity of perennial grasses and their impacts on soil health indicators in arid soils. The ASA-CSSA-SSSA International Annual Meetings November 9-12, 2025. Salt Lake City, UT.
81. Dhakal, S.* Beiermann, C., and **Islam, M.A.** 2023. Optimizing alfalfa forage production: assessing the effects of cutting interval and cutting height on forage yield and nutritive value in aging alfalfa stand. Western Alfalfa & Forage Symposium, December 12-14, 2023, Sparks, NV.
80. Shilpakar, C.*, Holbrook, D. and **Islam, M.A.** 2023. Effect of Vegetation Cover and Biomass on Soil Carbon Stocks and Labile Organic Matter Fractions in Reclaimed Grassland. Western Society of Crop Science Annual Meeting, June 26-28, 2023, Honolulu, HI.
79. Dhakal, S.* and **Islam, M.A.** 2023. Evaluation of Barricade Grass Mixtures Under Wyoming Conditions. Western Society of Crop Science Annual Meeting, June 26-28, 2023, Honolulu, HI.
78. Lee, B., John, J., **Islam, M.A.**, Herreid, J., and Jabbour, R. 2023. Economic comparison of early harvest and insecticide use for alfalfa weevil management in alfalfa. Joint North Central and Southwestern Branch Meeting. 2023, Entomological Society of America, Oklahoma City, OK.
77. **Islam, M.A.** and Ashilenje, D.* 2022. Comparison of Grass-legume Mixtures and Nitrogen Effects on Trace Gas Emission and Soil Microbial Biomass. The 8th International Greenhouse Gas & Animal Agriculture Conference, July 31-August 5, 2022, Glasgow, UK.
76. Shilpakar, C.* and **Islam, M.A.** 2022. Effect of grass legume mixtures on below ground biomass and microbial population. SAREC Field Day, August 10, 2022. Lingle, WY.
75. Munkaila, M.* and **Islam, M.A.** 2022. Alfalfa-grass mixtures and irrigation affect forage accumulation. SAREC Field Day, August 10, 2022. Lingle, WY.
74. Yakubu, A.* and **Islam, M.A.** 2022. Response of alfalfa forage yield to micronutrients under semi-arid conditions. SAREC Field Day, August 10, 2022. Lingle, WY.
73. Baidoo, M.* and **Islam, M.A.** 2021. Potassium and Harvest Management Effect on Productivity of Old Stands of Alfalfa. The ASA-CSSA-SSSA International Annual Meetings November 7-10, 2021. Salt Lake City, UT.

72. Liang, X., Keshavarz Afshar, R., Qin, R., **Islam, M.A.**, Brummer, J. E., Cabot, P., and Quirino Souza Dayoub Zagato, L. 2021. Forage yield and nutritive value of different alfalfa-grass intercropping systems under two irrigation regimes. The ASA-CSSA-SSSA International Annual Meetings November 7-10, 2021. Salt Lake City, UT.
71. Shilpakar, C.* and **Islam, M.A.** 2021. Quantitative and Qualitative Vegetation Analysis of a Reclaimed Grassland. The ASA-CSSA-SSSA International Annual Meetings November 7-10, 2021. Salt Lake City, UT.
70. Munkaila, M.*, and **Islam, M.A.** 2021. Productivity of alfalfa-grass mixtures. SAREC Field Day, August 25, 2021. Lingle, WY.
69. Baidoo, M.* and **Islam, M.A.** 2021. Potassium and Cultivar Affect Forage Yield of Alfalfa. SAREC Field Day, August 25, 2021. Lingle, WY.
68. Shilpakar, C.* and **Islam, M.A.** 2021. Contribution of Grass-legume Mixtures on Forage and Soil Quality. SAREC Field Day, August 25, 2021. Lingle, WY.
67. Shilpakar, C.* and **Islam, M.A.** 2020. Competitive Ability of Cool-season Perennial Grasses against Downy Brome Grown in Different Soils. The Western Society of Crop Science Annual Meetings (Virtual) July 7-8, 2020.
66. Baidoo, M.* and **Islam, M.A.** 2020. Potassium Rate, Cultivar, and Harvest Management Affect Potassium Uptake in Alfalfa. The Western Society of Crop Science Annual Meetings (Virtual) July 7-8, 2020.
65. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2019. Forage Yield and Nutritive Value of Sorghum Cultivars Under Irrigated and Dryland Conditions. SAREC Field Day, August 21, 2019. Lingle, WY.
64. Shilpakar, C.* and **Islam, M.A.** 2019. Performance of some promising genotypes of cool season perennial grasses and legumes in disturbed environments. SAREC Field Day, August 21, 2019. Lingle, WY.
63. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2019. Tall fescue-Alfalfa Mixtures for Improved Forage Production. SAREC Field Day, August 21, 2019. Lingle, WY.
62. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2019. Assessing Roundup Ready Alfalfa Cultivars for Wyoming Conditions. SAREC Field Day, August 21, 2019. Lingle, WY.
61. Baidoo, M.*, and **Islam, M.A.** 2019. Potassium and Cultivar Affect Forage Yield of Alfalfa. SAREC Field Day, August 21, 2019. Lingle, WY.
60. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2019. Evaluating Chickpea Cultivars with Nitrogen Fertilization for Forage and Grain Production. SAREC Field Day, August 21, 2019. Lingle, WY.
59. **Islam, M.A.**, Baidoo, M.*, and Shilpakar, C.* 2019. Forage Production of Cool Season Perennial Grasses Planted in Fall Under Irrigated and Dryland Conditions. SAREC Field Day, August 21, 2019. Lingle, WY.
58. **Islam, M.A.** and Baidoo, M.* 2019. Soil Potassium Levels and Its Effect on Alfalfa Productivity. The SSSA International Soils Meeting January 8, 2019. San Diego, CA.
57. **Islam, M.A.**, Baidoo, M.*, Brummer, J., and Min, D. 2018. Effects of potassium, cultivar, and harvest time on sustainable alfalfa production. Proceedings of the 2nd World Alfalfa Congress, November 13, 2018, Cordoba, Argentina.
56. Baidoo, M.* and **Islam, M.A.** 2018. Effect of Potassium and Harvest Time on Potassium Uptake and Nutritive Value of Alfalfa. Proceedings of the ASA-CSSA International Annual Meetings November 6, 2018. Baltimore, MD.

55. Shilpakar, C.* and **Islam, M.A.** 2018. Perennial cool season grass, legume, and shrub for reclamation of disturbed areas in Wyoming. SAREC Field Day Demonstration, July 22, 2018. Linge, WY.
54. Baidoo, M.* and **Islam, M.A.** 2018. Potassium and harvest time affect production and nutritive value of alfalfa. SAREC Field Day, July 22, 2018. Linge, WY.
53. **Islam, M.A.**, Baidoo, M.*, and Ashilenje, D.* 2018. Evaluation of Forage Sorghum Under Irrigated and Dryland Conditions. SAREC Field Day, July 22, 2018. Linge, WY.
52. **Islam, M.A.**, Baidoo, M.*, and Ashilenje, D.* 2018. Evaluation of Chickpea for Grain and Forage Production in Wyoming. SAREC Field Day, July 22, 2018. Linge, WY.
51. **Islam, M.A.**, Ashilenje, D.*, Baidoo, M.*, and Shilpakar, C.* 2018. Tall fescue-alfalfa mixtures for improved forage yield and nutritive value. SAREC Field Day, July 22, 2018. Linge, WY.
50. **Islam, M.A.**, Ashilenje, D.*, Baidoo, M.*, and Shilpakar, C.* 2018. Evaluation of roundup ready alfalfa for adaptability to Wyoming conditions. SAREC Field Day, July 22, 2018. Linge, WY.
49. **Islam, M.A.**, Ashilenje, D.*, Baidoo, M.*, and Shilpakar, C.* 2018. Performance of cool season grasses under irrigated and dryland conditions in Wyoming. SAREC Field Day, July 22, 2018. Linge, WY.
48. Stahl, P., Eberle, C., **Islam, M.A.**, Norton, J., Coupal, R., and Yates, R. 2018. Use of Pyrolyzed Coal and Biochar as a Soil Amendment. SAREC Field Day, July 22, 2018. Linge, WY.
47. Baidoo, M.* and **Islam, M.A.** 2018. Potassium and Harvest Time Affect Production and Nutritive Value of Alfalfa. The Western Society of Crop Science Annual Meetings June 20, 2018. Laramie, WY.
46. Ashilenje, D.S.* and **Islam, M.A.** 2018. Benefits of grass-legume mixture extend to nitrogen gains and alleviation of greenhouse gas emissions in Wyoming. The Western Society of Crop Science Annual Meetings June 20, 2018. Laramie, WY.
45. **Islam, M.A.** 2018. The silent decline in soil potassium levels and its effect on alfalfa productivity in the Central and Western U.S. The North American Alfalfa Improvement Conference Annual Meetings June 4-6, 2018. Logan, UT.
44. **Islam, M.A.** and Ashilenje, D.* 2017. Roundup Ready alfalfa variety trial for adaptability to Wyoming conditions - Updates. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 24, 2017. Lingle, WY.
43. Ashilenje, D.S.* and **Islam, M.A.** 2017. Meadow Bromegrass-Legume Mixtures Enhance Forage Yield and Nutritive Value. Field Day, Sheridan Research and Extension Center, July 20, 2017. Sheridan, WY.
42. Nilahyane, A.* and **Islam, M.A.** 2017. Evaluation of Irrigation Water and Nitrogen Management for Silage Corn Production in Wyoming. Field Day, Powell Research and Extension Center, July 13, 2017. Powell, WY.
41. Nilahyane, A.* and **Islam, M.A.** 2017. Effect of Water Stress on Yield and Water Use of Corn for Silage Grown in Semiarid Environment of Wyoming. Field Day, Powell Research and Extension Center, July 13, 2017. Powell, WY.
40. Nilahyane, A.* and **Islam, M.A.** 2017. Response of Silage Corn to Irrigation Water and Nitrogen under Different Irrigation Systems. Field Day, Powell Research and Extension Center, July 13, 2017. Powell, WY.

39. **Islam, M.A.** 2017. Silent Decline in Soil Potassium May Influence Sustainable Production of Alfalfa. Frontiers of Potassium – An International Conference January 25-27, 2017. Rome, Italy.
38. **Islam, M.A.** 2016. Plant Diversity for Resilient Production and Environmental Benefits in the Changing World. International Conference on Changing the World through Japan's Scientific Endeavors "Japan's Rapidly Aging Society" November 12, 2016. Harvard University, Boston, MA.
37. Baskota, S.* and **Islam, M.A.** 2016. Evaluation of quinoa in Wyoming. Field Day, Laramie Research and Extension Center, August 27, 2016. Lingle, WY.
36. Baskota, S.* and **Islam, M.A.** 2016. Evaluation of fenugreek in Wyoming. Field Day, Laramie Research and Extension Center, August 27, 2016. Lingle, WY.
35. Baskota, S.* and **Islam, M.A.** 2016. Evaluation of quinoa in Wyoming. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 25, 2016. Lingle, WY.
34. Baskota, S.* and **Islam, M.A.** 2016. Evaluation of fenugreek in Wyoming. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 25, 2016. Lingle, WY.
33. **Islam, M.A.** and Ashilenje, D.* 2016. Roundup Ready alfalfa variety trial for adaptability to Wyoming conditions. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 25, 2016. Lingle, WY.
32. Sarkar, S.* and **Islam, M.A.** 2016. Birdsfoot Trefoil Response to Planting Method and Harvesting Frequency. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 25, 2016. Lingle, WY.
31. Nilahyane, A.* and **Islam, M.A.** 2016. Quality Response of Irrigated Silage Corn Grown under On-Surface and Sub-Surface Drip Irrigation Systems. Field Day, Powell Research and Extension Center, July 19, 2016. Powell, WY.
30. Nilahyane, A.* and **Islam, M.A.** 2016. Effect of Irrigation on Physiological Traits of Corn for Silage Grown under On-surface Drip Irrigation System. Field Day, Powell Research and Extension Center, July 19, 2016. Powell, WY.
29. Nilahyane, A.*, **Islam, M.A.**, Abdel O. Mesbah, A.O., Garcia y Garcia, A. 2016. Response of Corn for Silage to Water in a Semi-Arid Environment. ASABE Annual International Meeting, July 17-20, 2016. Orlando, FL.
28. **Islam, M.A.** 2015. Tall Fescue: Forage and Seed Production Economics. International Grassland Congress November 20-24, 2015. New Delhi, India.
27. Nilahyane, A., **Islam, M.A.**, Garcia y Garcia, A., Sylvester, A., and Herbert, S. 2015. Growth and Physiological Responses of Maize to Water Stress. ASA-CSSA-SSSA International Annual Meetings November 18, 2015. Minneapolis, MN.
26. Nilahyane, A., Garcia y Garcia, A., and **Islam, M.A.** 2015. Effect of Irrigation and Nitrogen Rates on Yield of Corn for Silage. Field Day, Powell Research and Extension Center, July 16, 2015. Powell, WY.
25. **Islam, M.A.** 2014. Economics of Tall Fescue Forage and Seed Production. The Japan Society for the Promotion of Science-US Alumni Association 5th Multidisciplinary Science Forum International Annual Meetings November 7, 2014. University of Florida, Gainesville, FL.

24. Nilahyane, A., Garcia y Garcia, A., and **Islam, M.A.** 2014. Effect of Irrigation and Nitrogen Rates on Yield of Corn for Silage. ASA-CSSA-SSSA International Annual Meetings November 5, 2014. Long Beach, CA.
23. **Islam, M.A.** 2014. Forage and seed production economics of tall fescue. ASA-CSSA-SSSA International Annual Meetings November 3, 2014. Long Beach, CA.
22. **Islam, M.A.**, Violet, R. 2014. Forage and seed yield potential of tall fescue under irrigated conditions. Field Day, Powell Research and Extension Center, July 17, 2014. Powell, WY.
21. **Islam, M.A.**, Violet, R., Killen, M., Christman, J. 2013. Tall fescue: Forage and seed yield potential under irrigated conditions. Field Day, Powell Research and Extension Center, July 19, 2013. Powell, WY.
20. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., Baumgartner, R.E., Bandara, M., and Acharya, S.N. 2013. Fenugreek may have potential for multipurpose use. Western Society of Crop Science Annual Meetings, June 11-12, 2013. Pendleton, OR.
19. Carter, C., Garcia y Garcia, A., **Islam, M.A.**, and Hansen, K. 2013. Effect of deficit irrigation on water use and water use efficiency of alfalfa. American Society of Agricultural and Biological Engineers (ASABE) Annual Meetings, July 21-24, 2013. Kansas city, MO.
18. **Islam, M.A.**, Krall, J.M., Cecil, W.K., Nachtman, J.J., Baumgartner, R.E., Bandara, M., and Acharya, S. 2012. Fenugreek: A potential legume for multipurpose use. Field Day, Laramie Research and Extension Center, August 30, 2012, Laramie, WY.
17. **Islam, M.A.**, Krall, J.M., Cecil, W.K., Nachtman, J.J., Baumgartner, R.E., Bandara, M., and Acharya, S. 2012. Fenugreek: A potential legume for multipurpose use. Field Day, James C. Hageman Sustainable Agriculture Research and Extension Center, August 23, 2012, Lingle, WY.
16. **Islam, M.A.**, Krall, J.M., Cecil, W.K., Nachtman, J.J., Baumgartner, R.E., Bandara, M., and Acharya, S. 2012. Fenugreek: A potential legume for multipurpose use. The 6th International Crop Science Congress, August 6-10, 2012. Bento Goncalves, RS, Brazil (International Crop Science Congress).
15. **Islam, M.A.**, Violet, R., Killen, M., Christman, J., Cecil, W., and Frost, S. 2012. Forage yield and seed yield potential of novel tall fescue under irrigated conditions. Field Day, Powell Research and Extension Center, July 17, 2012, Powell, WY.
14. **Islam, M.A.**, Groose, R., Norton, U., Garcia y Garcia, A., Santra, D., Sivanpillai, R., Ritten, J., Norton, J., Paisley, S., and Krall, J. 2012. Legume Adoption Practices in the Central Great Plains of the United States: Economic and Environmental Benefits in Face of Climate Change. The 4th International Conference on Climate Change, July 12-13, 2012. University of Washington, Seattle, WA (Common Ground Publishing, USA).
13. Kimura, E., Krall, J.M., Hess, B.W., and **Islam, M.A.** 2012. Establishing Forage Legumes with Companion Crop. The W-SCS Annual Meetings July 11-13 2012. Washington State University, Pullman, WA (Western Society of Crop Science).
12. Kimura, E.*, Krall, J.M., Hess, B.W., and **Islam, M.A.**, 2011. Effect of scarification method and storage time on hard seed and germination of forage legumes. Proceedings of the Western Society of Soil Science and Western Society of Crop Science Joint Annual Meetings 20-22 June 2011. University of Wyoming, Laramie, WY (Western Societies of Soil Science and Crop Science). *Received *award of first place* in students' poster competition.

11. **Islam, M.A.**, Krall, J.M., Nachtman, J.J., and Baumgartner, R.E. 2011. Assessment of fenugreek for adaptation to South East Wyoming. Proceedings of the American Forage and Grassland Council Annual Conference 12-15 June 2011. French Lick, IN.
10. **Islam, M.A.**, Saha, M.C., and Baumgartner, R.E. 2010. Yield performance of cool-season grasses under irrigated and dryland conditions in the Great Plains of Wyoming. The American Forage and Grassland Council Annual Meetings 21-23 June 2010. Springfield, MO.
9. **Islam, M.A.**, Saha, M.C., Baumgartner, R.E., Cecil, J.T. and Nachtman, J.J. 2009. Forage and grain yield potential of small grains in the Great Plains of Wyoming. The ASA-CSSA-SSSA International Annual Meetings 1-5 November 2009. Pittsburgh, PA.
8. **Islam, M.A.** Butler, T.J. and Huo, C. 2008. Effect of different herbicides on switchgrass establishment and growth. The American Forage and Grassland Council and the Society for Range Management Joint Annual Meeting, 26-31 January 2008, Louisville, KY.
7. **Islam, M.A.** and Butler, T.J. 2008. Germplasm evaluation of rhizoma peanut for growth and forage potential. The American Forage and Grassland Council and the Society for Range Management Joint Annual Meeting, 26-31 January 2008, Louisville, KY.
6. **Islam, M.A.** and Butler, T.J. 2007. Effect of *Rhizobia* inoculants on annual medics. The ASA-CSSA-SSSA International Annual Meetings, 4-8 November 2007, New Orleans, LA.
5. **Islam, M.A.** and Butler, T.J. 2007. Evaluation of wild bean for forage potential. The AFGC Annual Meeting, 24-26 June 2007, Pennsylvania State College, PA.
4. Bushong, J.T., Butler, T.J., **Islam, M.A.** and Rowland, M.W. 2006. Annual medics (*Medicago* spp.) response to *Rhizobia* inoculation. The ASA-CSSA-SSSA International Annual Meetings, 12-16 November 2006, Indianapolis, IN.
3. **Islam, M.A.** and Hirata, M. 2005. Leaf dynamics and tillering in centipedegrass compared with bahiagrass. The XX International Grassland Congress, 26 June - 1 July 2005, University College Dublin, Ireland.
2. **Islam, M.A.**, Dowling, P.M., Jacobs, B.C., Milham, P.J., Garden, D.L. and Conyers, M.K. 2001. Emergence and survival responses of *Austroanthonia* spp. and ecotypes to soil pH. The XIX International Grassland Congress, 11-21 February 2001, São Paulo, Brazil.
1. **Islam, M.A.**, Milham, P.J., Conyers, M.K., Dowling, P.M., Jacobs, B.C. and Garden, D.L. 2000. A method of acidifying soil for pot trials. The 4th International Conference on Soil Dynamics, 26 - 30 March 2000, University of South Australia, Adelaide, Australia.

Professional Service and Leadership:

International:

Editorial Board Member, *Grassland Science* (since 2012)

Guest Editor, *Sustainability*, Special Issue (an International Journal), Agroecology: Principles and Application for Efficient and Sustainable Agricultural Production (2017-2019)

Organizing Committee Member, International Conference and Expo on Agriculture and Horticulture, August 13-14, 2018, Amsterdam, Netherlands (Scientific Federations, UK)

Opening speech (Guest Speaker): Plant Science and Physiology - The Latest Development and Future Trends. The 2nd International Conference on Plant Science and Physiology, June 26, 2017, Bangkok, Thailand.

Chair: Served as a **Chair** of *Technical Session I* (Plant Physiology, Plant Disease and Plant Pathogens, Plant and Agricultural Biotechnology, and Traditional Medicine): in the 2nd

International Conference on Plant Science and Physiology, June 26, 2017, Bangkok, Thailand. (8 speakers from 6 countries).

Co-Chair: Served as a **Co-Chair** and **Judge** of a *Poster Presentation*. The 2nd International Conference on Plant Science and Physiology, June 27, 2017, Bangkok, Thailand. (8 presenters from 4 countries)

Chair: Served as a **Chair** of *Technical Session 4: Agriculture II* in the International Conference on Agronomy and Horticulture, August 26, 2015, Shanghai, China. (14 speakers from 14 countries).

Chair: Served as a **Chair** in the 5th International Crop Science Congress held in Jeju, Korea, April 13-18, 2008, with a total **1700** participants from over **65** countries.

Session title: Non-destructive diagnosis of crop status and grassland management

Date: April 17, 2008

Speakers: **total 5** from Australia, Canada, Iran, Japan, and Korea.

National and Regional:

President: Western Society of Crop Science, 2021-2023

Host: NCCC31 (Ecophysiological Aspects of Forage Management) Annual Meeting, University of Wyoming, Laramie, WY, June 15-17, 2022.

Co-Host: Western Society of Crop Science Annual Meeting, Colorado State University, Fort Collins, CO, June 21-22, 2022 (<https://www.crops.org/membership/branches/wscs>)

Moderator: Served as a **moderator** of *Professional Oral Presentations Section I*: Western Society of Crop Science Annual Meeting, June 21, 2022

Moderator: Served as a **moderator** of *Student Awards*: Western Society of Crop Science Annual Meeting, June 22, 2022

Moderator: Served as a **moderator** of *Concurrent Session VI* (Alternative Forages): Western Alfalfa and Forage Symposium, November 17, 2021, Reno, NV, (4 speakers from different states; over 100 attendees)

Co-Host: Western Society of Crop Science Annual Meeting (Virtual), June 22-23, 2021 (<https://www.crops.org/membership/branches/wscs>)

Moderator: Served as a **moderator** of *Professional Oral Presentations Session IV*: Western Society of Crop Science Annual Meeting (Virtual), June 23, 2021

NIFA Foundational Knowledge of Agricultural Production Systems Adhoc Panel Reviewer, August 26-28, 2020 (two proposals)

Co-Host: NCCC31 (Ecophysiological Aspects of Forage Management) Annual Meeting (Virtual), July 22-23, 2020.

Co-Host: Western Society of Crop Science Annual Meeting (Virtual), July 7-8, 2020 (<https://www.crops.org/membership/branches/wscs>)

President-Elect: Western Society of Crop Science, 2019-2021

Host: Western Society of Crop Science Annual Meeting, June 19-20, 2018, Laramie, WY (<https://www.crops.org/membership/branches/wscs>)

One of the **Co-Organizers** of 11 Western States (AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, and WY), Western Alfalfa & Forage Symposium (since 2013)

NIFA Foundational Knowledge of Agricultural Production Systems Panel Reviewer, Washington DC, September 12-14, 2017 (primary panelist for 3 proposals, 2nd panelist for 3 proposals, and 3rd panelist for 3 proposals; total 9 proposals)

Moderator: Served as a *moderator* of *Main Session* (Alfalfa Production and Pest Management I): Western Alfalfa and Forage Symposium, November 29, 2017, Reno, NV, (4 speakers from different states; *over 300 attendees*)

Chair: Served as a Chair of *Breakout #2 Session* (Alternative Forage Crops): Western Alfalfa and Forage Symposium, December 3-4, 2015, Reno, NV, (*8 speakers* from different states)

Judge C6- Robert F. Barnes graduate students competition at ASA-CSSA-SSSA meeting, Phoenix, AZ, November 7, 2016

Judge, *ACS-Student Speech Contest* (ACS449.3) at 2016 ASA-CSSA-SSSA meeting, Phoenix, AZ, November 6, 2016

Chair (2014-2015), NCCC31 (Ecophysiological Aspects of Forage Management)

Secretary (2013-2014), NCCC31 (Ecophysiological Aspects of Forage Management)

NIFA Climate Change Panel Reviewer, Washington DC, July 22-25, 2013 (primary panelist for 5 proposals, 2nd panelist for 5 proposals, and 3rd panelist for 5 proposals; total 15 proposals)

Chair, WERA-1014 (Intensive Pasture Management for Sustainable Livestock Production in the Western US), 2013-2014

Judge, The Robert F Barnes Graduate Student competition for Outstanding Graduate Oral Presentations, ASA-CSSA-SSSA Meetings, Division C6, Long Beach, CA, 2014

Convener and organizer, PNW Forage Workers and WERA-1014 Conference, UW, Laramie, WY, 2013

Convener and organizer, Tear Down the Walls Meeting, SAREC, Lingle, WY, 2012;

Judge, C-03 Graduate Student Poster Competition, ASA-CSSA-SSSA Meetings, Cincinnati, OH, 2012

Judge, National Student Research Symposium Poster Contest, Students of Agronomy, Soils and Environmental Sciences (SASES) ASA-CSSA-SSSA Meetings, San Antonio, TX, 2011

Judge, The Robert F Barnes Graduate Student competition for Outstanding Graduate Oral Presentations, ASA-CSSA-SSSA Meetings, Division C6, Long Beach, CA, 2010

Judge, National Student Research Symposium Poster Contest, Students of Agronomy, Soils and Environmental Sciences (SASES) ASA-CSSA-SSSA Meetings, Long Beach, CA, 2010

Judge for National Hay Show, Wyoming State Fair (2009-2019)

Member and Wyoming representative, WERA 1012; WERA 1014; WERA 1016 (2009-2023)

Grant Programs Reviewer Western Region Sustainable Agricultural Research and Education program, *Western SARE* (since 2009, reviewed 44 proposals)

Member and representative of Wyoming NCCC31 Ecophysiological Aspects of Forage Management (since 2008)

Member, Journals reviewers, participant in future meeting/plan (Division C-06); American Society of Agronomy, Soil Science Society of America, and Crop Science Society of America, (since 2005)

Member and Journal reviewer, American Forage and Grassland Council (since 2005)

University:

Department Head of two Departments, Department of Plant and Environmental Sciences and Department of Extension Plant Sciences, New Mexico State University (2023-present)

University Reappointment, Tenure and Promotion (RT&P) Committee, University of Wyoming (2022-2023)

Search Committee Chair (2022), Assistant/Associate Professor, Forage Production/Weed Management, Plant Sciences Department, UW

Search Committee Member (2022), Assistant Professor, Precision Livestock Management, Animal Science Department, UW

Assistant Department Head and Budget & Space Coordinator, Department of Plant Sciences, UW (2019-2023)

Search Committee Member (2021), Assistant Professor, Weed Science, Plant Sciences Department, UW

Search Committee Member (2020), the Rochelle Chair, Animal Science Department, UW

Faculty Senate Alternate, UW (2013-2023)

Faculty Senate, UW (Fall-Spring, 2016-2017)

College Tenure and Promotion (T&P) Committee, UW College of Agriculture and Natural Resources (2014-2017)

Search Committee Chair (2014-2016), Assistant Professor, Agronomist/Irrigation Specialist, Plant Sciences Department, UW

Search Committee Member (2012-2013), Assistant Professor, Small Grains Breeder/Agronomist, Plant Sciences Department, UW

President (2016-2017), *Secretary (2014-2015)*, *Secretary-Elect and Treasurer (2013-2014)* (Local Chapter), Gamma Sigma Delta, The Honor Society of Agriculture

Faculty Advisor of Recognized Student Organization (RSO), Agroecology Student Club at UW (2019-2023)

Faculty Advisor of Recognized Student Organization (RSO), Bangladesh Students' Association at UW (since 2014)

Search Committee Member (2012-2013), Assistant Professor, Soil Chemist, Ecosystem Science and Management Department, UW

Member Scholarship Committee: SEND (Student Engagement and Networking Drive) program, College of Agriculture and Natural Resources (2012-2023)

Member Forage Resources Management Team (2011-2020)

Member Ag College Scholarship (Brand of Excellence) Committee (2011-2023)

Member, Agroecology Undergraduate Curriculum Review Committee (2010-2014)

Search Committee Member (2011), Master Gardener coordinator, Dept. of Plant Sciences, UW

Search Committee Member (2010-2011), Assistant Professor, Ruminant Nutrition, Animal Science Department, UW

Search Committee Chair (2010), *Research Scientist Agronomist*, UW Sustainable Agriculture Research & Extension Center, Lingle

Search Committee Member (2008-09), Faculty Irrigation Specialist, UW Powell Research & Extension Center

Judge UW Popular Magazine, *Reflections* (2009-2023)

UW Forage Website (<http://www.uwyo.edu/plantsciences/UWplant/Forages/>) Development (since November 2009)

Editorial Board Member/Reviewer:

Editorial Board Member and Reviewer of the following journals:

Associate Editor (Agronomy Journal, 2018-2021)

Grassland Science (Editorial Board Member, since 2012)

Guest Editor (Sustainability, 2017-2019)

American Society of Agronomy (Agronomy Journal, Reviewer)

Crop Science Society of America (Crop Science, Reviewer)

Soil Science Society of America (SSSA Journal, Reviewer)
Rangeland Ecology & Management (Reviewer)
Journal of Agronomy (Technical Editor)
American Journal of Plant Physiology (Technical Editor)
International Journal of Agricultural Research (Technical Editor)
International Journal of Soil Science (Technical Editor)
Journal of Plant Sciences (Technical Editor)
Asian Journal of Plant Sciences (Technical Editor)
Asian Journal of Crop Science (Technical Editor)
Pakistan Journal of Biological Sciences (Technical Editor)
The Scientific World Journal (Guest Editor)

More than 100 journal papers have been reviewed since 2005; in 2018-23, 32 as Guest Editor (Sustainability) and 31 as Handling Editor and Reviewer (Grassland Science)

Additionally, served as a reviewer of the following:

External Tenure and Promotion Packet review (6; University of Maryland East Shore, MD, 2022; Oregon State University, OR, 2021; University of Nevada, Reno, 2020; University of Idaho, 2018; University of Agriculture Faisalabad, Pakistan, 2017; United Arab Emirates University, 2014; 2 declined due to time conflict from Washington State University, 2021 and Texas A&M, 2018)

AES Global Perspective Grant Review (8 2017-2023)

AES Competitive Grant Review (5 2016-2023)

UW Extension Bulletin Review (3 2014-2023)

Western SARE Grant Programs Review (44 2009-2023)

Reflections (Magazine) Article Review (11 2009-2023)

UW Field Days Bulletin Review (13 2013-2023)

Internal Departmental Review (9 2006-2023)

CRIS Project Review (1 2012)

Academic:

Teaching

Forage Crop Science - PLNT 4700 / PLNT 5700

-Designed the course and developed the course materials

Taught every fall

Fall 2022: total **10 students**

5 students; starting from junior to senior levels

5 students; Graduate (MS and PhD) levels

Fall 2021: total **4 students**

4 students; starting from junior to senior levels

Fall 2020: total **13 students**

9 students; starting from sophomore to senior levels

4 students; Graduate (MS and PhD) levels

Fall 2019: total **19 students**
 16 students; starting from sophomore to senior levels
 3 students; Graduate (MS and PhD) levels
 Fall 2018: total **14 students**
 10 students; starting from sophomore to senior levels
 4 students; Graduate (MS) levels
 Fall 2017: total **16 students**
 14 students; starting from sophomore to senior levels
 2 students; Graduate (MS) levels
 Fall 2016: total **17 students**; starting from sophomore to senior levels
 Fall 2015: total **22 students**
 17 students; starting from sophomore to senior levels
 5 students; Graduate (MS and PhD) levels

Internship in Agroecology - AECL 4930

Fall 2022: total **5 students**
 5 students; starting from junior to senior levels
 Spring 2022: total **5 students**
 5 students; starting from sophomore to senior levels
 Fall 2021: total **12 students**
 12 students; starting from sophomore to senior levels
 Spring 2021: total **1 student**
 1 student; Freshman level
 Fall 2020: total **9 students**
 9 students; starting from sophomore to senior levels

Guest Lectures

Capstone Agroecology Seminar (AECL 4990), Department of Plant Sciences, University of Wyoming

February 8, 2022: One undergraduate lecture – **12 students**
 1 hour lecture on “*Current Issues in Forage Science*” followed by ½ hour Q&A
 February 16, 2021: One undergraduate lecture – **13 students**
 1 hour lecture on “*Current Issues in Forage Science*” followed by ½ hour Q&A
 February 18, 2020: One undergraduate lecture – **22 students**
 1 hour lecture on “*Current Issues in Forage Science*” followed by ½ hour Q&A

College of Agriculture, Hokkaido University, Japan

July 7, 2015: One undergraduate lecture – **42 students**
 1½ hours lecture on “*Forage Production and Utilization in USA*”
 July 3, 2015: One graduate lecture – **22 students**
 1½ hours lecture on “*Sustainable Forage Production*”

Forage Crop Science - PLNT 3200 [CROP 2200, 3200]

-Designed the course and developed the course materials

Taught every fall

Fall 2014: *total 21 students; starting from sophomore to graduate levels*
 Fall 2013: *total 11 students; starting from sophomore to graduate levels*
 Fall 2012: *total 15 students; starting from sophomore to graduate levels*
 Fall 2011: *total 18 students; starting from sophomore to graduate levels*
 Fall 2010: *total 11 students; starting from sophomore to graduate levels*
 Fall 2009: *total 15 students; starting from sophomore to graduate levels*
 Fall 2008: *total 18 students; starting from sophomore to graduate levels*

Thesis Research (PLNT 5960) (Number of students at Master levels)

<u>Year</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
2022	1	1	1
2021	-	1	1
2020	1	1	1
2019	2	1	-
2018	-	2	-
2017	2	1	-
2016	-	2	2
2014	1	3	2
2013	1	2	2
2012	2	2	1
2011	1	2	2
2010	5	-	1
2009	-	-	3

Dissertation Research (PLNT 5980) (Number of students at PhD levels)

<u>Year</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
2022	1	2	1
2021	1	2	2
2020	-	-	1
2018	1	1	-
2017	-	1	1
2016	1	1	1
2015	1	1	1
2014	1	1	2
2013	1	1	1
2012	1	1	1
2011	-	-	1
2010	6	-	-
2009	-	-	5

Research in Crops (PLNT 5600) (Number of students at Graduate levels)

<u>Year</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
2022	-	1	-
2021	1	-	-
2018	-	1	-
2016	-	-	2

2014	-	-	1
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Research Apprenticeship (AECL 4920) (Number of students at Undergraduate levels)

<u>Year</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>
2018	-	-	1
2016	-	1	1
2015	-	-	1
2013	1	2	-
2010	-	-	1

Advising/Mentoring

Undergraduate students: 21 (2008-2017)

Aaron Hockman	Clayton M. Kawcak	Cody M. Smith
Deiter P. Goldenstein	Erin S. Kinsey	Jessie R. Carlson
Karsten A. Jordan	Laura E. Slaght	Luke S. Nieslanik
Matthew A. Lipp	Preston J. Talbert	Steven D. Miller
William M. Kalimeras	Hannah J. Hopp	John M. Elsom
Caleb Monk	Eugene L. Schmidt	Mckenna M. Schumacher
Wesley J. Taylor	Benjamin Trupp	Michele Ury Foist

Graduate students (M.S./Ph.D.):

M.S. Students: 12

Current

None

Graduated

12 students

Michael Atiemo (started summer 2023, graduated in fall 2025; currently doing PhD at Texas A&M)

Sulav Dhakal (started in spring 2023, graduated in fall 2025; currently doing PhD in PennState)

Mohammed Munkaila (started in fall 2020, graduated spring 2023; currently doing PhD at Texas A&M)

Chandan Shilpakar (started in summer 2018, graduated in fall 2020)

Michael Baidoo (started in fall 2017, graduated in spring 2019)

Saugat Baskota (started in fall 2015, graduated in summer 2017; completed Ph.D. at University of Idaho; currently a Senior Agronomist at Desert Control, Arizona)

Sayantan Sarkar (started in fall 2015, graduated in spring 2017; completed PhD at West Virgia University, currently a Research Scientist at Texas A&M)

Bryce A. Wehmeyer (started in summer 2011, graduated in spring 2016; currently working in CO as Greenhouse Manager)

Matthew T. Jolivet, Plant Sciences; currently working at NRCS

Albert T. Adjesiwor (started in fall 2013, graduated in spring 2015; currently an Assistant Professor at the University of Idaho)

Parmeshwor Aryal (started in fall 2013, graduated in summer 2015; currently a postdoc at the University of Florida)
Emi Kimura (started in spring 2009, graduated in spring 2011; currently an Associate Professor at Texas A&M)

Ph.D. Students: 7

Current

2 Students

Raymond Tetteh (started fall 2025)
Mariam Kareem (started fall 2024)

Graduated

5 students

Chandan Shilpakar (started in spring 2021, graduated in fall 2025; currently Assistant Professor at Lincoln University Missouri)
Michael Baidoo (started in fall 2019, graduated in spring 2022; currently Research Director, United Agronomy, North Dakota)
Dennis Ashilenje (started in fall 2015, graduated in summer 2018; currently Assistant Professor at a University in Kenya)
Abdelaziz Nilahyane (started in fall 2013, graduated in fall 2016; currently Assistant Professor at Mohammed VI Polytechnic University, Morocco)
Dhruba Dhakal (started in fall 2011, graduated in summer 2015; currently Agronomy Specialist at State University Missouri, Columbia)

M.S. Committees: 8

Brenna Litynski, Department of Plant Sciences
David Dorwin Leitz, Department of Animal Science
Sean Xiang Tang, Department of Ecosystem Science and Management
Ayesha Siddika, Family and Consumer Sciences, started in fall 2021, graduated in spring 2023
Tyler Zenon Jones, Department of Plant Sciences (graduated in spring 2022; currently working as Assistant Farm Manager, UW Sheridan Research and Extension Center)
Christina Marie Helseth, Department of Plant Sciences, graduated in fall 2020
Caleb M. Carter, Department of Plant Sciences (graduated in December 2013)
Emily A. Melson, Department of Animal Science

Ph.D. Committees: 7

Judith S. Herreid, Department of Plant Sciences (graduated in spring 2023)
Marshall Tanner Hart, Department of Plant Sciences (graduated in May 2022)
Wahid Dakhel, Ecosystem Science and Management (graduated in December 2016)
Beth Fowers, Department of Plant Sciences (graduated in December 2015)
Brekke L. Peterson, Department of Plant Sciences (graduated in December 2014)
Prakriti Bista, Department of Plant Sciences (graduated in August 2014)
Azize Homer, Department of Plant Sciences (graduated in May 2013)

Postdoctoral Fellow: 4

- Dr. Paul Gabriel (started spring 2026 – present)
- Dr. Dennis Ashilenje (fall 2018 – spring 2019; currently Assistant Professor at a University in Kenya)
- Dr. Abdelaziz Nilahyane (fall 2016 – summer 2017; currently Assistant Professor at Mohammed VI Polytechnic University, Morocco)
- Dr. Dhruba Dhakal (summer – fall 2015; currently Agronomy Specialist at State University Missouri, Columbia)

Visiting Scholars Hosted: 6

- Dr. Joseph Jimu Baloyi, Fulbright Visiting Scholar, Professor, Head, and Vice Dean, Animal Science, University of Venda, South Africa (March – October, 2021)
- Dr. Surya Acharya, Forage Breeder, Agriculture and Agri-Food Canada (June 2018)
- Dr. Toshihiko Yamada, Professor, Hokkaido University, Japan (March 2017)
- Dr. Lachlan Ingram, Senior Research Fellow in Sustainable Grassland Management, University of Sydney, Australia (July 2012)
- Dr. Wanyu Zhao, Xinjiang Institute of Ecology and Geography, Chinese Academy of Science, China (July-September 2012)
- Dr. Manjula Bandara, Senior Research Scientist, Alberta Agriculture and Rural Development, Brooks, Alberta, Canada (July 2010)