

RESUME

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Research Interest

Enhanced nutrient use efficiency, Climate smart agriculture, Carbon sequestration, Organic agriculture,

Education

Masters of Science in Agriculture (Soil Science), 2003- Institute of Agriculture and Animal Science, Post Graduate Program, Rampur, Tribhuvan University.

Bachelor of Agriculture with soil science as elective, 2001- Institute of Agriculture and Animal Science, Rampur Campus, Tribhuvan University.

Appointments

Campus Chief- Paklihawa Campus- 2081 Magh 2 to date

Assoc. Professor, Institute of Agriculture and Animal Science, Paklihawa Campus, Tribhuvan University- October 2021 to date.

Asst. Professor, Institute of Agriculture and Animal Science, Paklihawa Campus, Tribhuvan University- Aug 2008 to Sept.2021.

Scientist (S-1), Nepal Agriculture Research Council, Aug. 2004 to July 2008.

Publications

Scimago and Scopus indexed Journals:

Gairhe, J.J., Adhikari, M., Ghimire, D., Khatri-Chhetri, A. & Panday, D. (2021). Intervention of Climate- Smart Practices in Wheat under Rice-Wheat Cropping System in Nepal. *Climate* 9(2). <https://doi.org/10.3390/cli9020019>

Mallik, A. , Adhikari, K. R. , Pathak, R. , Kohar, G. R., **Gairhe, J. J.** (2024). Impact of Inorganic and Organic Nutrient Sources on Soil Quality and Cabbage (*Brassicaoleracea* Var. Capitata) Yield. *Journal of Xi'an University of Architecture & Technology*. XVI (6).

International Journals:

Gairhe, J. J., Bhattarai, P., Gyanwali, P., Khanal, R., Mainali, R., Poudel, S., Pokhrel, M., & Sharma, P. K. (2024). Effect of various biochar on selected soil properties and

- agronomical parameters of okra (*Abelmoschus esculentus* L.) at Rupandehi, Nepal. *Archives of Agriculture and Environmental Science*, 9(1), 134-142, <https://dx.doi.org/10.26832/24566632.2024.0901019>
- Ghimire, P., Acharya, A., Devkota, C. & **Gairhe, J. J.** (2021). Effect of Nitrogen Levels on Use Efficiencies and Yield of Wheat at Bharatpur, Chitwan, Nepal. *The Geographic Base*. DOI: <https://doi.org/10.3126/tgbv8i01.43477>
- Pandey, R., Pandey, D., Bashyal, C. & **Gairhe, J. J.** (2024). Impact of added Phosphorus and Phosphorus Solubilizing Bacteria in Yield and Yield Attributes of Mungbean (*Vigna Radiata* L.). *International Journal of Environment, Agriculture and Biotechnology*. 9(2)
- Pant, R., Gurung, D., Bohara, B., Kafle, N., & **Gairhe, J.J.** (2022). Spatial Analysis of Soil Characteristics Under Different Land Uses in Arun Rural Municipality and Shadananda Municipality of Bhojpur District. *International Research Journal of Advanced Engineering and Science*. 7(2), pp. 249-254.
- Aryal, K., Adhikary, K. R., **Gairhe, J. J.**, Tripathi, B. P. & Kandel, B. P. (2019). Assessment of native nutrient supplying capacity of soil for site specific nutrient management to increase early rice (*Oryza sativa* L.) productivity in Morang, Nepal. *Crop Res.* 54 (1 & 2), 1-7.
- Thapa, S. & **Gairhe, J.J.** (2020). Mapping spatial distribution of main season rice fields in eastern Nepal using multi-temporal landsat 8 images. *Big Data In Agriculture (BDA)* 3(1).01-05. <http://doi.org/10.26480/bda.01.2021.01.05>.
- Gairhe, J.J.**, Khanal, S. & Thapa, S. (2021). Soil Organic Matter (SOM): Status, Target and Challenges in Nepal. *Malaysian Journal of Sustainable Agriculture*, 5(2): 90-94. <http://doi.org/10.26480/mjsa.02.2021.90.94>

National Journals:

- Gairhe, J.J.**, Thapa, S. & Aryal, K. (2024). Application of GIS Technology in Assessment of Climatic, Topographic Parameters and Soil Fertility Mapping of Gaumukhi, Pyuthan, Nepal. *The Lumbini Agriculture Journal* 3. 14-28.
- Gairhe, J. J.** & Thapa, S. (2020). System of Rice Intensification (SRI): Boon or Burden? *The Journal of Agriculture and Environment*. Ministry of Agriculture and Livestock Development, Government of Nepal. 21, 216-228.
- Paudel, M.**, Adhikari, K.R., Subedi, B., **Gairhe, J.J.**, Vista, S.P. & Lamichhane, S. (2020). Assessment of the relationship between soil pH and macronutrients at Baseshwor, Sindhuli. *J. Inst. Agric. Anim. Sci.* 36, 241-248.
- Gairhe J.J.**, & Adhikari, M. (2018). Intervention of Climate Smart Agriculture Practices in Farmers Field to Increase Production and Productivity of Winter Maize in Terai Region of Nepal. *J. Inst. Agric. Anim. Sci.* 35, 59-66.
- Phulara, G., **Gairhe, J. J.**, Gaihre, Y. K., & Amgain, L. P. (2023). Site-Specific Fertilizer Management through Nutrient Expert: Productivity, Profitability and Efficiency of Wheat. *Journal of Tikapur Multiple Campus*. 6. 204-219.

- Pandey, P., Adhikari, K. R., **Gairhe, J. J.**, Adhikari, B. B., Shrestha, R. K. & Khanal, D. (2023). Rice Straw Management Practices in Rupandehi District, Nepal. *J. Inst. Agric. Anim. Sci.* 37, 82-90.
- Gairhe J.J.**, Bhusal, T.N. & Neupane, H. (2015). Influence of priming and nitrogen on growth behaviour of buckwheat in rainfed condition of midhills of Nepal. *J. Inst. Agric. Anim. Sci.* 33-34, 47-54.
- Gairhe J. J.** & Sturrock C. J. (2010). Influence of fungal exudates on generating habitat porosity. *J. Inst. Agric. Anim. Sci.* 31, 69-76.
- Gairhe J.J.**, Amgain, L.P. & Shah, S. C. (2008). Organic matter content and physical properties of soil in relation to crop productivity status of Chitwan valley. *J. Inst. Agric. Anim. Sci.* 29, 53-60.

Research Report

1. Gairhe, J.J. (2022). Evaluation of enhanced efficiency N fertilizers for increasing productivity of rice in central Terai of Nepal. Project completion report submitted to international Fertilizer Development Centre (IFDC). Asia Regional Office, Dhaka, Bangladesh. (Acknowledged letter attached).
2. Gairhe, J.J. (2017). *Evaluation of climate smart agriculture practices and technologies for cereal crops in farmers' fields*. Project completion report submitted to International Maize and Wheat Improvement Center (CIMMYT), New Delhi, India. (Acknowledged letter attached).
3. Gairhe, J.J., Dahal, K.R. & Pant, H.K. (2021). *Site specific nitrogen fertilizer recommendation and evaluation of enhanced efficiency N fertilizer for increasing productivity of wheat in Western and Central Terai of Nepal*. Project completion report submitted to international Fertilizer Development Centre (IFDC). Asia Regional Office, Dhaka, Bangladesh. (Acknowledged letter attached).
4. Pant, H.K., **Gairhe, J.J.**, & Bhandari, T. (2021). *Determine optimum nitrogen rate for irrigated rice in Central Terai and mid-hill condition in Nepal*. Project completion report submitted to international Fertilizer Development Centre (IFDC). Asia Regional Office, Dhaka, Bangladesh. (Acknowledged letter attached).
5. Gairhe, J.J. (2011). *Effects of seed priming and nitrogen on the yield and yield attributing characters of buckwheat under midhill rainfed conditions of Nepal*. Project completion report submitted to Research Centre, Rectors' office, TU, Kirtipur, Kathmandu, Nepal. (acknowledged letter attached)

Reference Book

Gairhe, J.J. (2019). *Understanding of soil science: a fundamental approach*. Janma Jaya Gairhe, Bhairawawa, Nepal.

Local Bulletin

- Gairhe, J.J. (2024). Madiphant Palpako matoko urbarashakti isthiti bisleshan (in nepali). In J.J. Gairhe (Eds.) *Paklihawa Krishi Bulletin Volume 2* (pp. 1-6). Research Management Cell, Paklihawa Campus.

- Gairhe, J.J. (2023). Nepalma matoko urbarashaktiko abastha ra mato bigyan prayogshalako upalabdihata: ek bibechana(in nepali). In P. Paudel (Eds.) Paklihawa Krishi Bulletin (pp. 10-13). Research Management Cell, Paklihawa Campus.
- Gairhe, J.J. (2020). Digo krishi ko aadhar: ekikrit mato bebasthapan. In B. Chhetri (Eds.) *Agriculture Abawan*, 5(5) (pp. 30-32). Kathmandu, Nepal.
- Gairhe, J.J. (2019). Contemporary issues of soil fertility management in Nepal. In P. budhathoki (Eds.), *Arohan-3* (pp. 10-13). ANNFSU Paklihawa, Rupandehi, Nepal.
- Gairhe, J.J. (2013). Khetipatima matopani bebasthapan(in nepali). In R. Acharya (Eds.) *Gairhe Darpan* (pp. 138-142). Gairhe(Gaire) Kalyan Samaj, Tanahu.
- Gairhe, J.J. (2011). *Organic Vegetable Production Technology (In Nepali)*. SECOD, Sundarbazaar, Lamjung, Nepal.
- Gairhe, J.J. (2011). Nutrient Management in rice. In B. B. Adhikari and K. Dahal (Eds.), *Participatory Rice Research, Development and Dissemination(Technical collection)* (pp. 27-30). IRRI/IAAS.TU

Training and workshops

- Commemoration of World Soil Day " Caring for soils: Measure, Monitor, Manage" jointly organized by Nepal Soil Science Research Centre (NSSRC) and Department of Agriculture. December 4 – 5, 2024, Kathmandu, Nepal.
- International Conference on "Innovations in Soil Fertility and Precision Nutrient Management. September 30 – October 2, 2024, Kathmandu, Nepal.
- International Conference on "Global Approaches in Agricultural, Biological, Environmental and Life Sciences for Sustainable Future (GABELS-2024), Buddha Hall, D.A.V. College, Kathmandu, Nepal. June 08-10, 2024.
- Workshop on Strategies to enhance “Soil Organic Matter through Collaborative Efforts” by Practical Action, Nepal. January 13- 14, 2020, Kathmandu.
- *Climate-Smart Village Approach in Nepal* by CGIAR, CCAFS, CIMMYT-September12-14, 2016, Kathmandu, Nepal
- *Climate Change, Agriculture and Food Security Opportunities for Regional Collaboration* by CGIAR, CCAFS, CIMMYT- November 19-21, 2014 Ho Chi Minh City, Vietnam.

Proclamation

I assure with full responsibility that the information provided above are true to the best of my knowledge and belief.

