

Dr. Rajasree G
Professor (Agronomy)
Department of Agronomy
College of Agriculture, Vellayani P.O
Thiruvananthapuram-695 522,
Kerala, India

Address: VN 37-B, Vyasaganar,
Near MG College, Kesavadasapuram, Pattom P.O,
Thiruvananthapuram,
Pin-695004, Kerala, India
Phone: +91 9447856817
Email: rajasree.g@kau.in
rajasrinair@gmail.com

Summary

My research interest in the area of nutrient management especially organic and integrated nutrient management has started with my doctoral research. Later as part of my career as Agronomist at State Planning Board my research interests got re focussed on soil fertility interventions. I was lucky, to have associated with planning in agricultural sector with agro ecological perspective, and to be a part of the project team on multi institutional project of Govt. Of Kerala "Soil Based Plant Nutrient Management Plan for Agro-ecosystems of Kerala" Co Ordinated by Kerala State Planning Board. The out come of the said project has led to the renowned publication *Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*" an edited volume which depicts the fertility status of the State on agro ecological basis and I was lucky to be the third editor and co author of few chapters of the publication. My current interest of research is in the field of cropping system studies and to develop package of recommendation for maize, and millets like sorghum.

Research Highlights

- Studied the fodder production potential of summer rice fallows
 - Studied the effect of combined application of organic and inorganic fertilizers and standardised the split application schedule of organic sources for maximising productivity in bitter gourd
 - Studied the soil fertility interventions and standardized the nutrient management schedule for Nendran banana in Western Ghat region of South Kerala
 - Studied the climate change pattern and water balance of southern zone of Kerala
 - Standardized the nutrient management including foliar nutrition of minisett cassava
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Experience

- Worked as Agriculture Officer on Deputation as Assistant Project Manager at Kerala Horticulture Development Programme from 1998 to 2000.
 - Joined Kerala Agricultural University as Assistant Professor (Agronomy) in the year 2000
 - Worked as Agronomist in Kerala State Planning Board on Deputation from Kerala Agricultural University from 2007 February to 2014 January
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Education

- Graduated in Agricultural Science from Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola (1991)
 - Post Graduation in Agronomy from Kerala Agricultural University (1994)
 - Ph.D in Agronomy from Kerala Agricultural University (1999)
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Area of Specialization

Nutrient Management, Crop production-tuber crops, maize and millets, Cropping system studies

Awards & Recognitions

Awarded G.K.Vydy silver medal for having secured the highest percentage of marks in the subject of Agronomy at B.Sc Ag. level from PDKV Akola in 1991

Research Projects

- SPB funded project Assessment of crop weather relations and formulation of advisories for southern region of Kerala"-NARP (SR) Vellayani- KAU- Co-P.I- 2008-2013
- Development of crop-weather advisory system for problem area- Funded by State Planning Board, Govt. of Kerala to RRS, Moncombu, KAU- Co-PI 2009-2013
- Dept. of Agriculture funded multi institutional project " Soil based plant nutrient management plan for Agro Ecosystems of Kerala- Sanctioned vide G.O (MS) No. 185 /2010/AD dtd.17.7.2010 to KAU and other 13 institutions-Assistant Co-Ordinator
- KAU Plan - Climate Change Adaptation - Strengthening Agromet Advisory Services- P.I (2015-2019)
- KAU Plan – Lead farmers as climate managers- P.I from Aug. 2015-2019
- EAP- Income and livelihood improvement of banana farmers in Southern Western Ghat tracts through soil fertility intervention- WGDP project- P.I from 2015-2018
- Nutrient management for maximising productivity in miniset cassava cultivation-KAU Plan project- 2019-21

Publications

Journal Articles

1. Rajasree, G. and Pillai, R. G. 1994.Evaluation of fodder quality of legumes under lime and phosphorus nutrition in summer rice fallows, *Forage Res.* **20**(1) :19-23 (1994)
2. Rajasree, G. and Pillai, R. G. 2002. Influence of nitrogen nutrition on soil microbial population. *Ann. Agric. Res.* **23**(2), 2002:331
3. Rajasree.G and Pillai, R. G 2001.Influence of lime and phosphorus on yield and yield attributes of fodder legumes and their comparative performance in summer rice fallow.*J Trop. Agric.* (2001) **39** :67-70

4. Pillai, S. P. and G. Rajasree 2012. Climate variability and its possible impact on rice production in Southern Kerala, *Curr. Adv. Agric. Sci.* 4(1): 25-28, June 2012, ISSN 0975-2315
5. Scaria, D and Rajasree, G. 2016. Effect of varieties, spacing and seasons on baby corn yield In coconut gardens of southern Kerala *Adv. Life Sci.*5(17) : 6983-6986 ISSN 2278-3849,
6. Scaria, D., Rajasree, G. and Sudha, B. 2016. Effect of varieties and spacing on growth, yield and economics of cultivation of baby corn (*Zea mays* L.) as intercrop in coconut gardens. *Res. On Crops* 17 (4):673-678
7. Namitha, V. V., Rajasree, G. and Divakar, S. 2019. Effect of integrated nutrient management practices on the nutrient content and organoleptic properties of baby corn (*Zea mays* L.). *Int. J Agric. Sci.* 11 (15) : 8868-8870
8. Namitha, V.V., Rajasree, G., and Divakar, S. 2019. Effect of integrated nutrient management practices on the nutrient content and organoleptic properties of baby corn (*Zea mays* L). *Int. J. Adv. Res. Rev.* 4(8): 18-21.
9. Sruthy, K.T. and Rajasree, G. 2020. Effect of nursery techniques on early growth attributes of minisett-cultivated cassava (*Manihot esculenta* Crantz) . *Int. J Farm Sci.*10 (1): 76-80.
10. Sruthy, K.T. and Rajasree, G. 2020. Minisett techniques in cassava (*Manihot esculenta* Crantz)—A review. *Int. J. Curr. Microbiol. Applied Sci.* 9 (3): 2731-2735
11. Anupama, A., Rajasree, G and Emmanuel, A. 2020. Effect of organic nutrition on chemical and biological properties of red loam soils under baby corn (*Zea mays* L) cultivation. *Int. J. Farm Sci.*10 (3-4):61-64
12. Devaraj, A. Isaac, S. R. and Rajasree, G. 2020. Influence of spacing and nutrient levels on yield, physiological parameters and nutrient uptake in short duration varieties of red gram (*Cajanus cajan* (L.) Millsp). *J Pharmacog. Phytochem.*9(5), 2020, 1463-1467
13. Anupama, A. and Rajasree G. 2021. Effect of organic nutrition on quality and shelf life of baby corn (*Zea mays* L.) *Int. J Chem Stud.* 9(1), 2021:1077-1080
14. Emmanuel, A., Rajasree, G. and Anupama, A. 2021. Effect of baby corn-vegetable intercropping systems on light interception by canopy and competition indices. *Int. J. Farm Sci.* 11 (3):26-30
15. Limisha, N. P., Rajasree, G., and Isaac, S .R. 2021. Growth and dry matter yield of taro (*Colocasia esculenta* (L) Schot) as influenced by organic nutrient management. *The Pharma Innovation J.* 10 (12): 824-828
16. Limisha, N. P. and Rajasree, G. 2022. Effect of organic nutrient management on growth attributes and cormel yield of taro (*Colocasia esculenta* (L) Schot). *Int. J. Farm Sci.* 12 (1): 1-7.
17. Dhanalakshmi, V.N., Rajasree, G and Chitra, N. 2022. Assessment of biological properties of Potting Medium under different Minisett Corm sizes and Integrated Nutrient Management Practices in Elephant Foor Yam [*Amorphophallus paeoniifolius* (Dennst.) Nicolson], *Int. J Curr. Microbiol. Appl. Sci.* 11 (7): 199-205
18. K.S Sreena, Pillai P Shalini and G. Rajasree. 2023. Tuberisation pattern of tannia (*Xanthosoma sagittifolium* (L.) Schott) in response to crop management practices in the South-Central Laterites of Kerala, India, *Int. J Environ. Climate Change* 13 (9): 1876-1889.
19. Limisha, N. P., Rajasree, G., and Isaac, S. R. (2023). Growth Characters and yield of Taro [*Colocasia esculenta* (L.) Schott] as Influenced by Organic Nutrient Management. *J. Indian Society of Coastal Agric. Res.* 40 (2),79–89. <https://doi.org/10.54894/JISCAR.40.2.2022.117105>

Books/Edited publications/Bulletins/Chapters in Books/Conference papers

Books

1. KSPB [Kerala State Planning Board] 2009. Strategies and Action Plans for Strengthening Soil Testing Services in the State-Prepared by Dr. Rajasree G, Dr Rajasekharan, P, Agriculture Division, Published by Kerala State Planning Board, Thiruvananthapuram, p.206
2. KSPB[Kerala State Planning Board] 2011. A status report on Agricultural Mechanisation in Kerala.-Prepared by Dr. Rajasree G, Dr Rajasekharan, P, Agriculture Division, Published by Kerala State Planning Board, Thiruvananthapuram, p.105
3. KSPB [Kerala State Planning Board]. 2014. *Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala- Edited Volume*, In: Rajasekharan,P., .Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514.
4. KSPB [Kerala State Planning Board]. 2014. *Cropping Systems in Kerala-* John, J., Rajasekharan, P., Rajasree. G and Bindu, P. Published by Kerala State Planning Board, Thiruvananthapuram

Proceedings as Editor

1. KSPB and KAU [Kerala State Planning Board and Kerala Agricultural University].2012. In: *Proceedings on the National Workshop on Potential and Strategies for Hi-Tech Agriculture in 12th Five Year Plan-* Suseela, P., Rajasekharan, P., and Rajasree, G. (eds), September 2012, Thiruvananthapuram

Bulletins

1. John, J., Rajasree, G. and Nair, L. P. 2013. Bulletin No. 1- *Disease and Insect Pest Incidence and Adoption Indices of Plant Protection Technologies in Major crops of Kerala in different Agro Ecological Units-District wise analysis-* Published by Kerala State Planning Board, Thiruvananthapuram
2. John, J., Bindu, P., and Rajasree, G. 2013. Technical Bulletin- *Researchable Issues of Agriculture in Different Agro Ecological Units of Kerala-* Published by Kerala State Planning Board, Thiruvananthapuram

Book Chapters

1. Pillai, R. G., Rajasree, G., Devi, G. L., and Sheela, K. R. 1994. Coconut based forage production system compared with others in the humid tropical conditions of Kerala. In: *Agroforestry systems for degraded lands*, Vol.1, Singh, P., Pathak, P. S., and Roy, M. M. (eds), *Proceedings of the International Conference on Sustainable development of degraded lands through Agroforestry in Asia and Pacific*, New Delhi, Nov.25-30.
2. Nair, S. C., Rajasree. G., and Bindumol. 2004. Efficiency of Phosphate concentrate and super phosphate at two levels on yield characters of rice in the neutral to alkaline soils

of Chittoor-Palakkad, Kerala, In: *Phosphate Rich Organic Manure: An Alternate to Phosphatic Fertilisers*. Shaktawat,M.S., Singh, M., Aery,N.C, Swami, B.N. and Katewa, M.K (eds), Himanshu Publications, NewDelhi, 2004 , ISBN 81-7906-062-4

3. Rajasekharan, P. and Rajasree, G. 2013. Integrated Farming Systems-Significance and Relevance in Agro Ecological Situation of Kerala . In: *Integrated Farming System – Towards a strategy for agriculture development in Kerala*, Published by Kerala State Planning Board, Thiruvananthapuram
4. John, J., Rajasree, G., Rajasekharan, P. and Podikunju, B. 2013. - Cropping Systems in Different Agro Ecological Units of Kerala. In : *Integrated Farming System –Towards a strategy for agriculture development in Kerala*, Published by Kerala State Planning Board, Thiruvananthapuram
5. Rajasekharan, P. and Rajasree, G. 2013. Demonstration models of Integrated Farming Systems under ATMA in Kerala. In: *Integrated Farming System –Towards a strategy for agriculture development in Kerala*, Published by Kerala State Planning Board, Thiruvananthapuram
6. Rajasekharan, P. and Rajasree, G. 2013. Way forward. In: *Integrated Farming System –Towards a strategy for agriculture development in Kerala*, Published by Kerala State Planning Board, Thiruvananthapuram
7. Rajasekharan, P. and Rajasree, G. 2014. Genesis of Kerala Soil Fertility Initiative. In:*Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*, Rajasekharan, P., Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514
8. Rajasekharan, P. and Rajasree, G. 2014. Agricultural Development in Kerala –An Overview. In:*Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*, Rajasekharan, P., Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514
9. Rajasekharan, P. and Rajasree, G. 2014. Fertilizer Policy and implications on Agriculture. In:*Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*, Rajasekharan, P., Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514
10. Venugopal, V. K., Rajasree, G., Nair, S. A. N., and Abraham, S. 2014. Soil Testing Services in Kerala. In:*Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*, Rajasekharan, P., Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514

11. Rajasekharan, P., Nair, K. M., and Rajasree. G. 2014. Way forward. In: *Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala*, Rajasekharan, P., Nair, K. M., Rajasree, G., Sureshkumar, P., and Narayanankutty, M.C (eds). Published by Kerala State Planning Board, Thiruvananthapuram, p.514
12. Rajasree, G., Moli, G. K., and Lal, P.A.S.2009. Resource Base. In: *Distict Human Development Report Ernakulam*, p.18-53. Published by UNDP and Kerala State Planning Board, Thiruvananthapuram
13. Pillai, S.P., Rajasree, G. and Ajith, K. 2015. Weather relations and crop health-recent observations. In : *Weather and Plant health Management in Kerala*. Rajasekharan, P. and Peethambaran, C. K (eds.), Published by Kerala State Planning Board, Thiruvananthapuram
14. Thomas, A., Rajasree. G., and Kaginalkar, A. 2015. Weather forecasting technology for crop management. In : *Weather and Plant health Management in Kerala*. Rajasekharan, P. and Peethambaran, C. K (eds.), Published by Kerala State Planning Board, Thiruvananthapuram

Conference papers

1. Rajasree, G., and Rajasekharan, P. 2007. Soil Testing Services in Kerala- A Performance Assessment, In: *Proceedings of the National Workshop on Fertility Evaluation for Soil Health Enhancement, 11-13 Sept, 2007*, Trivandrum, Published by Soil Survey Organisation, Dept. of Agriculture, Govt. of Kerala
2. Rajasekharan, P. and Rajasree. G. 2009. Satellite linked weather network and agriculture development in Kerala. In: *Workshop Volume on Ground Water Resource and Management in Kerala & Lakhsdweep, Retrospect, Perspect and Prospect, March 2009*, Published by Central Ground Water Board, Govt. of India
3. Rajasree, G. and Lal, P.A.S. 2011. A study on inter relation between seasonal rainfall and cassava production trends and identification of the terrain suitability based on spatial slope analysis to safeguard from climate vulnerabilities. In: *Abstract of National Seminar on Climate Change and Food Security: Challenges and Opportunities for Tuber Crops- Indian Society for Root Crops, Thiruvananthapuram, at CTCRI, Thiruvananthapuram, 20-22 January 2011*, Published by Indian Society for Root Crops, Thiruvananthapuram
4. Rajasree, G. and Lal, P.A.S. 2012. A geo spatial analysis of ground water prospect of Agro Ecological Units of Thiruvananthapuram District of Kerala to support resource planning and Ecological Management. In: *The compendium of Third International Agronomy Congress- Agriculture Diversification, Climate change management and livelihoods –IARI, New Delhi, Nov. 26-30, 2012*, Published by Indian Society o Agronomy, New Delhi

Popular articles/handouts/leaflets : 16 Nos

Student Guidance (Major Advisor)

M. Sc.

Completed: 8

Ongoing : 1

Ph. D

Completed : 2

Ongoing : 2

Other Institutional Responsibilities

Outside KAU

Organiation of seminars

Organized 14 Nos of State level/National level Seminars – 2007-2014

Member other State Level /District level Bodies

- Member of sub committee for preparation of Integrated District Development Plan for Kollam District under District Level Special Technical Advisory Committee- October 2004-Jan 2007
- State level Expert Committee for Quick Assessment of LEADS -2012- Member
- State level Task Force on Drought Mitigation for agriculture-Member-2013
- Member Research Council- Kerala University of Fisheries and Ocean Studies-2013
- Nominated as a member of Sub Committee for preparation of Integrated District Development Plan for Kollam District under District Level Special Technical Advisory Committee , from October 2004- 2006
- Member representative in State Level Core Committee for WBCIS and PMFBI-2017-2020
- 12th Five Year Plan State level Working Group on Environment - Co Convener-2012 and 2013
- 12th Five Year Plan State level Working Group on Agriculture-Sub Group on Food Security – Member-2012 and 2013
- 12th Five Year Plan State level Working Group on Agriculture-Sub Group on Planting Material Production- Member-2012 and 2013
- 12th Five Year Plan State level Working Group on Climate Change- Co Convener-2012 and 2013
- State level Working Group on Crop Health Management- Member and Convener-2012 and 2013

In KAU

1. Scientist in charge of the Farm and Agriculture Information cum sales counter, FSRS Sadanandapuram-Nov 2004-Jan 2007
2. Assistant Warden, Ladies Hostel, College of Agriculture, Ambalavayal-2021-2023
3. Member, DPR Review Committee, Climate Smart Coffee Programme, K-DISC-2022-23
4. Student Advisor to 10 Undergraduate students-2014-2017
5. Student Advisor to 10 Undergraduate students-2023-

Membership in Professional Associations

1. Life Member of Indian Society of Agronomy
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