January-June 2018 Volume 31 Number 1

# Agricultural Economics Research Review

P G Chengappa: Development of agriculture value chains as a strategy for enhancing farmers' income

Seema Bathla, Anjani Kumar and Pramod K Joshi: Regional income inequalities and public investments in rural India

**Hukum Chandra:** Localized estimates of the incidence of indebtedness among rural households in Uttar Pradesh: an application of small area estimation technique

Ramu Govindasamy, Surendran Arumugam, Isaac Vellangany and Burhan Ozkan: Willingness to pay a high-premium for fresh organic produce: an econometric analysis

Pavithra S, Gracy C P, Raka Saxena and Ganesh Gowda Patil: Innovations in agricultural marketing: a case study of e-tendering system in Karnataka, India

Surabhi Mittal, Vinod K Hariharan, Subash S P: Price volatility trends and price transmission for major staples in India

Sachin Kumar Sharma and Abhijit Das: EU-Brazil proposal on farm support: strengthening agricultural reforms or undermining them?

Baban Bayan: Impacts of dairy cooperatives in smallholder dairy production systems: a case study in Assam

Varsha Khandker and Vasant P Gandhi: Post-adoption experience of hybrid rice in India: farmers' satisfaction and willingness to grow

A Narayanamoorthy, M Bhattarai and P Jothi: An assessment of the economic impact of drip irrigation in vegetable production in India

**Ghanshyam Pandey and Thiagu Ranganathan:** Changing land-use pattern in India: has there been an expansion of fallow lands?

Gyanendra Mani, Ashish Kundra and Azimul Haque: Kiwi value chain in Arunachal Pradesh: issues and prospects

R Karunakaran and Roba Huka: Leadership skills in primary multipurpose cooperative societies in Ethiopia

S Varadha Raj, R S Saranya, D Suresh Kumar and M Chinnadurai: Farm-level economic impact of rice blast: a Bayesian approach

Dhiraj K Singh: Determinants of dairy farmers' choice of marketing channels in Bihar, India





ISSN 0971-3441

# Agricultural Economics Research Review

[Journal of Agricultural Economics Research Association (India)]

Volume 31

Number 1

January-June 2018

### CONTENTS

कन्द्रीय पुस्तकालय Contipullity ्रिसिक्किम विश्वविद्यालय Sikkim University

#### Presidential address

Development of agriculture value chains as a strategy for enhancing farmers' income $P\ G\ Chengappa$	1
Research articles	
Regional income inequalities and public investments in rural India Seema Bathla, Anjani Kumar and Pramod K Joshi	13
Localized estimates of the incidence of indebtedness among rural households in Uttar Pradesh: an application of small area estimation technique  Hukum Chandra	29
Willingness to pay a high-premium for fresh organic produce: an econometric analysis Ramu Govindasamy, Surendran Arumugam, Isaac Vellangany and Burhan Ozkan	45
Innovations in agricultural marketing: a case study of e-tendering system in Karnataka, India Pavithra S, Gracy C P, Raka Saxena and Ganesh Gowda Patil	53
Price volatility trends and price transmission for major staples in India Surabhi Mittal, Vinod K Hariharan, Subash S P	65
EU-Brazil proposal on farm support: strengthening agricultural reforms or undermining them? Sachin Kumar Sharma and Abhijit Das	75
Impacts of dairy cooperatives in smallholder dairy production systems: a case study in Assam Baban Bayan	87
Post-adoption experience of hybrid rice in India: farmers' satisfaction and willingness to grow Varsha Khandker and Vasant P Gandhi	95
An assessment of the economic impact of drip irrigation in vegetable production in India A Narayanamoorthy, M Bhattarai and P Jothi	105
Changing land-use pattern in India: has there been an expansion of fallow lands?  Ghanshyam Pandey and Thiagu Ranganathan	113

### Contents contd....

### Research notes

Kiwi value chain in Arunachal Pradesh: issues and prospects  Gyanendra Mani, Ashish Kundra and Azimul Haque	123
Leadership skills in primary multipurpose cooperative societies in Ethiopia.  R Karunakaran and Roba Huka	131
Farm-level economic impact of rice blast: a Bayesian approach  S Varadha Raj, R S Saranya, D Suresh Kumar and M Chinnadurai	141
Determinants of dairy farmers' choice of marketing channels in Bihar, India  Dhiraj K Singh	149
Book review	157
Obituary	159
Guidelines for submission of manuscript	160

### **Author Index**

Arumugam, Surendran	45	Huka, Roba	131	Pandey, Ghanshyam	113
Bathla, Seema	13	Hukum Chandra	29	Patil, Ganesh Gowda	53
Bayan, Baban	87	Joshi, Pramod K	13	Pavithra, S	53
Bhattarai, M	105	Jothi, P	105	Ranganathan, Thiagu	113
Chengappa, P G	1	Karunakaran, R	131	Saranya, R S	141
Chinnadurai, M	141	Khandker, Varsha	95	Saxena, Raka	53
Das, Abhijit	75	Kumar, Anjani	13	Sharma, Sachin Kumar	75
Gandhi, Vasant P	95	Kundra, Ashish	123	Singh, Dhiraj K	149
Govindasamy, Ramu	45	Mani, Gyanendra	123	Subash S P	65
Gracy, C P	53	Mittal, Surabhi	65	Suresh Kumar, D	141
Haque, Azimul	123	Narayanamoorthy, A	105	Varadha Raj, S	141
Hariharan, Vinod K	65	Ozkan, Burhan	45	Vellangany, Isaac	45

July-December 2018 Volume 31 Number 2

# Agricultural Economics Research Review

Aditya K S, Md Tajuddin Khan and Avinash Kishore: Adoption of crop insurance and impact: insights from India

Naveen P Singh, Jaiprakash Bisen, Venkatesh P and Aditya K S: GST in India: reflections from food and agriculture

Pushpa L Trivedi and Vishal V Nair: Price discovery and arbitrage linkage in the Indian agricultural commodity futures market: a study of gram futures

Bitan Mondal and Smita Sirohi: Varietal growth and gains from trade in Indian dairy imports: a quantitative introspection

Sachin Kumar Sharma: WTO and policy space for agriculture and food security: issues for China and India

Murlidhar Meena, K A Khunt, H N Meena and H T Khorajiya: Assessing export competitiveness of Indian groundnut

S P Subash, Rajeev Ranjan Kumar and K S Aditya: Satellite data and machine learning tools for predicting poverty in rural India

Bibhunandini Das: Sources of technological knowledge and farm output: evidences from a large-scale farmers' survey

K Kannan, Pouchepparadjou A, Anil Kuruvila and Shaik Allaudin A: Groundwater markets in east coast of Puducherry Union Territorry: analysis of pricing and irrigation efficiency

Rajinder Peshin, Rakesh Sharma, Raj Kumar, Laxmi K Sharma, Sudhakar Dwivedi, Rakesh Nanda, Vinod Gupta, Kernel S Risam: Technology adoption by small-scale full-time and part-time family farm households in the subtropics of Jammu & Kashmir

Shisha Dkhar and Utpal Kumar De: Public expenditure on agriculture and economic growth: a case study of Meghalaya Dahun

Purushottam Sharma, B U Dupare and Ram Manohar Patel: Technology adoption, its impact and determinants: the case of soybean in Madhya Pradesh

**Mousumi Kumar and Sankhajit Roy:** Max-min fuzzy programming approach for compromise farming: a case study

Rajdeep Singh and J M Singh: Mushroom growing in Punjab: cost components, and determinants affecting its productivity



# Agricultural Economics Research Review

[Journal of Agricultural Economics Research Association (India)]

Volume 31

Number 2

July-December 2018

### **CONTENTS**

सिक्किम विश्वविद्यालय Sikkim University

### Research articles

Adoption of crop insurance and impact: insights from India  *Aditya K S, Md Tajuddin Khan and Avinash Kishore**	163
GST in India: reflections from food and agriculture  Naveen P Singh, Jaiprakash Bisen, Venkatesh P and Aditya K S	175
Price discovery and arbitrage linkage in the Indian agricultural commodity futures market: a study of gram futures  Pushpa L Trivedi and Vishal V Nair	187
Varietal growth and gains from trade in Indian dairy imports: a quantitative introspection Bitan Mondal and Smita Sirohi	197
WTO and policy space for agriculture and food security: issues for China and India Sachin Kumar Sharma	207
Assessing export competitiveness of Indian groundnut  Murlidhar Meena, K A Khunt, H N Meena and H T Khorajiya	221
Satellite data and machine learning tools for predicting poverty in rural India S P Subash, Rajeev Ranjan Kumar and K S Aditya	231
Sources of technological knowledge and farm output: evidences from a large-scale farmers' survey Bibhunandini Das	241
Groundwater markets in east coast of Puducherry Union Territorry: analysis of pricing and irrigation efficiency  K Kannan, Pouchepparadjou A, Anil Kuruvila and Shaik Allaudin A	251
Technology adoption by small-scale full-time and part-time family farm households in the subtropics of Jammu & Kashmir Rajinder Peshin, Rakesh Sharma, Raj Kumar, Laxmi K Sharma, Sudhakar Dwivedi, Rakesh Nanda, Vinod Gupta, Kernel S Risam	259
Public expenditure on agriculture and economic growth: a case study of Meghalaya  Dahun Shisha Dkhar and Utpal Kumar De	271

### Contents contd....

Technology adoption, its impact and determinants: the case of soybean in Madhya Pradesh Purushottam Sharma, B U Dupare and Ram Manohar Patel	
Research notes	
Max-min fuzzy programming approach for compromise farming: a case study  Mousumi Kumar and Sankhajit Roy	291
Mushroom growing in Punjab: cost components, and determinants affecting its productivity Rajdeep Singh and J M Singh	299
Book review	305
Abstract of PhD thesis	307
Guidelines for submission of manuscript	309

## **Author Index**

Aditya, K S	163, 175, 231	Kumar, Mousumi	291	Roy, Sankhajit	291
Bisen, Jaiprakash	175	Kumar, Raj	259	Shaik Allaudin, A	251
Das, Bibhunandini	241	Kumar, Rajeev Ranjan	231	Sharma, Laxmi K	259
De, Utpal Kumar	271	Kuruvila, Anil	251	Sharma, Purushottam	281
Dkhar, Dahun Shisha	271	Meena, H N	221	Sharma, Rakesh	259
Dupare, B U	281	Meena, Murlidhar	221	Sharma, Sachin Kumar	207
Dwivedi, Sudhakar	259	Mondal, Bitan	197	Singh, J M	299
Gupta, Vinod	259	Nair, Vishal V	187	Singh, Naveen P	175
Kannan, K	251	Nanda, Rakesh	259	Singh, Rajdeep	299
Khan, Md Tajuddin	163	Patel, Ram Manohar	281	Sirohi, Smita	197
Khorajiya, H T	221	Peshin, Rajinder	259	Subash, S P	231
Khunt, K A	221	Pouchepparadjou, A	251	Trivedi, Pushpa L	187
Kishore, Avinash	163	Risam, Kernel S	259	Venkatesh, P	1.75