

## ICAR NBSS&LUP PUBLICATIONS 2015-2016

### Research Publications having NAAS rating > 6.0

1.	Rao, S.S., Tanwar, S.P.S., Regar, P.L. 2016. Effect of deficit irrigation, phosphorous inoculation and cycocel spray on root growth, seed cotton yield and water productivity of drip irrigated cotton in arid environment. <i>Agricultural Water Management</i> , <b>169</b> :14-25.	8.60
2.	Singh, Raman Jeet, Meena, Roshan Lal, Sharma, N.K., Suresh Kumar, Kuldeep Kumar, Dileep Kumar 2016. Economics, energy, and environmental assessment of diversified crop rotations in sub- Himalayas of India. <i>Environmental Monitoring and Assessment</i> , <b>188</b> :79.	7.63
3.	Bhattacharya, Ranjan; Ghosh, B.N., Mishra, P.K., Mandal, B., Rao Ch. Srinivas, Sarkar, D., Das, K., Anil, K.S, Lalitha, M., Hati, K.M. and Franzluebbers, A.J. 2015. Soil Degradation in India: Challenges and Potential Solutions, <i>Sustainability</i> , <b>7</b> :3528–3570	7.34
4.	Yadav, R.K., Minhas, P.S., Lal, Khajanchi, Chaturvedi, R.K., Yadav, Gajender and Verma, T.P. 2015. Accumulation of metals in soils, ground water and edible parts of crops grown under long-term irrigation with sewage mixed industrial effluents. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>95(2)</b> :200-206.	7.19
5.	Nath, A.J., Bhattacharyya, T., Ray, S.K., Deka, Jyotirupa, Das, Ashesh Kumar Das and Huma, Devi. 2016. Assessment of rice farming management practices based on soil organic carbon pool analysis. <i>Tropical Ecology</i> , <b>57</b> : 607-611.	7.17
6.	Reza, S.K., Nayak, D.C., Chattopadhyay, T., Mukhopadhyay, S., Singh, S.K. and Srinivasan, R. 2016. Spatial distribution of soil physical properties of alluvial soils: a geostatistical approach. <i>Archives of Agronomy and Soil Science</i> , <b>62</b> :972-981.	7.12
7.	Tiwary, P., Bhattacharyya, T., Mandal, C., Dasgupta, D. and Telpande, B. 2015. Pedometric mapping of soil organic carbon loss using soil erosion maps of Tripura. <i>Current Science</i> , <b>108</b> :1326-1339.	6.97
8.	Bandyopadhyya, K.K., Sahoo, R.N., Ravender Singh, Pradhan, S., Singh, S., Gopal Krishna, Pargal, S. and Mahapatra, S.K. 2015. Characterization and crop planning of rabi fallows using remote sensing and GIS. <i>Current Science</i> , <b>108</b> :2051-2062.	6.97
9.	Bhattacharyya, T, Wani, S.P., Chandran, P., Tiwary, P., Pal, D.K., Sahrawat, K.L. and Velayutham, M. 2016. Soil Information System: web-based information technology for agricultural land use planning, <i>Current Science</i> , <b>110</b> : 241-245.	6.97
10.	Rajan, K., Natarajan, A., Kasturi Tilakam, Anil Kumar, K.S., Dinesh, D., Alam, N.M., Khola, O.P.S. and Gowda, R.C. 2016. Clay dispersion induced by changes in some soil properties in undulating	6.97

	salt affected landscapes of southern Karnataka. India. <i>Current Science</i> , <b>110</b> : 874-883.	
11.	Bhattacharyya, T., Chandran, P., Ray, S.K., Pal, D.K., Mandal, C. and Mandal, D.K. 2015. Distribution of zeolitic soils in India. <i>Current Science</i> , <b>109</b> :1305-1313.	6.97
12.	Das, B.S., Sarathjith, M.C., Santra, P., Sahoo, R.N., Srivastava, R., Routray, A. and Ray, S.S. 2015. Hyperspectral remote sensing: opportunities, status and challenges for rapid soil assessment in India. <i>Current Science</i> , <b>108</b> (5): 860-868.	6.97
13.	Hegde Rajendra, Natarajan A., Meena R. S., Niranjana K. V., Thayalan S. and Singh S.K. 2015. Status of soil degradation in an irrigated command area in Chikkarasinakere Hobli, Mandya district, Karnataka. <i>Current Science</i> , <b>108</b> : 1501-1511.	6.97
14.	Lalitha, M. and Praveen Kumar 2015. Soil carbon fractions influenced by temperature sensitivity and land use management. <i>Agroforestry Systems</i> , <b>p.1-4</b> (DOI 10.1007/s10457-015-987-9).	6.91
15.	Nisha Sahu, Singh, S.K., Obi Reddy, G.P., Nirmal Kumar, Nagaraju, M.S.S. and Srivastava, Rajeev. 2016. Large-Scale Soil Resource Mapping using IRS-P6 LISS-IV and Cartosat-1 DEM in Basaltic Terrain of Central India. <i>J. Indian Soc. Remote Sens.</i> DOI 10.1007/s12524-015-0540-7.	6.68
16.	Rao, S.S., Dinesh Kumar, S., Wadodkar, M.R., Nagaraju, M.S.S., Chattaraj, S., William, Joseph, Rajankar, P., Sengupta, T., Venugopalan, M.V. Das, S.N., Joshi, A.K., Sharma, J.R. and Amminedu, E. 2016. Performance of global soil moisture product in cropgrowing region of central India. <i>Journal of the Indian Society of Remote Sensing</i> , DOI: 10.1007/s12524-015-0496-7.	6.68
17.	Srivastava, Rajeev, Sarkar, Dipak, Mukhopadhyay, S.S., Sood, Anil, Manjeet Singh, Nasre, R.A. and Dhale, S.A. 2015. Development of hyperspectral model for rapid monitoring of soil organic carbon under precision farming in the Indo-Gangetic Plains of Punjab, India, <i>J. Indian Society of Remote Sensing</i> , <b>43</b> (4):751–759.	6.68
18.	Yadav, R.P., Panwar, Panwar, Arya, S. and Mishra, P.K. 2015. Revisit of Shivalik region in different north western states of India. <i>Journal of Geological Society of India</i> , <b>86</b> : 351-360.	6.55
19.	Bhattacharyya, T., Chandran, P., Ray, S.K., Mandal, C., Tiwary, P., Pal, D.K., Maurya, U.K., Nimkar, A.M., Kuchankar, H., Sheikh, S., Telpande, B.A. and Kolhe, A. 2015. Walkley-Black recovery factor to reassess soil organic matter: Indo-gangetic plains and black soil region of India case studies. <i>Communications in Soil Science and Plant Analysis</i> , <b>46</b> :2628–2648.	6.53
20.	Ramachandran, S. and Biswas, D. R. (2015). Nutrient management on crop productivity and changes in Soil organic carbon and soil fertility in a 4 -year old maize-wheat cropping in Indo -Gangetic	6.51

	Plains of India". <i>Journal of Plant Nutrition</i> , DoI:10.1080/01904167.2015.10870.	
21.	Reza, S.K., Baruah, U., Sarkar, D. and Singh, S.K. 2016. Spatial variability of soil properties using geostatistical method: a case study of lower Brahmaputra plains, India. <i>Arabian Journal of Geosciences</i> (Springer publication, DOI 10.1007/s12517-016-2474-y).	6.00

## 2015-16

### Reaserch Publications having NAAS rating < 6.0

22.	Bhattacharyya, T., Mandal, C., Mandal, D.K., Jagdish Prasad, Tiwary, P., Venugopalan, M.V. and Pal, D.K. 2015. Agro-eco sub- region based crop planning in the black soil regions and Indo- gangeticplains – Application of soil information system. <i>Proceedings of Indian National Science Academy</i> , <b>81</b> :1151-1170.	5.89
23.	Moharana, P.C., Biswas, D.R. and Datta, S.C. 2015. Mineralization of Nitrogen, Phosphorus and Sulphur in soils as influenced by rock phosphate enriched compost and chemical fertilizers. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> :283-293.	5.23
24.	Naidu, L.G.K., Lalitha, M., Dharumarajan, S., Srinivas, S. and Ramamurthy, V. 2015. Delineation of prime and marginal lands in Karnataka for sustainable land use. <i>Journal of Indian Society of Soil Science</i> , <b>63</b> :373-378.	5.23
25.	Naidu, L.G.K., Ramamurthy, V., Niranjana, K.V., Satyavathi, P.L., Srinivas, S., Dhanorkar, B.A., Ravindra Chary, G. and Reddy, R.S. 2015. Evaluation of regional benchmark soils and agro-climate <i>vis- à-vis</i> soils of technology generation sites for agrotechnology transfer-a case study of Andhra Pradesh. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> :144-158.	5.23
26.	Reza, S.K., Baruah, U. and Singh, S.K. 2015. Accumulation and translocation of heavy metals in soil and crop irrigated with Paper milleffluents. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> :242- 244.	5.23
27.	Reza, S.K., Baruah, U. and Singh, S.K. 2015. Multivariate approaches for soil fertility characterization of lower Brahmaputra valley, Assam, India. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> : 379 □ 383.	5.23
28.	Sharma, R.P. and Singh, R.S. 2015. Carbon stock and its management in soils of Bhilwara district, Rajasthan. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> :304-309.	5.23
29.	Singh, Rameshwar, Singh, R.S. and Gupta, P.K. 2015. Moisture Release Behaviour of Orange-Growing Soils Developed from	5.23

	Different Parent Materials in Jhalawar District of Rajasthan. <i>Journal of the Indian Society of Soil Science</i> , <b>63</b> (2):159-165.	
30.	Yadav, R.P., Prasad, Ram and Arya, Swarn Lata 2015. Effect of different horti-pastoral systems in amelioration soil compaction in Shivalik region. <i>Indian Journal of Soil Conservation</i> , <b>44</b> (1): 255-259.	5.20
31.	Obi Reddy G.P., Kurothe, R.S., Sena, D.R., Harindranath, C.S., Niranjana, K.V., Naidu, L.G.K., Singh, S.K., Sarkar, Dipak, Mishra, P.K. and Sharda, V.N. 2016. Assessment of soil erosion in tropical ecosystem of Goa, India using Universal Soil Loss Equation, geostatistics and GIS, <i>Indian Journal of Soil Conservation</i> , <b>44</b> (1):1- 7.	5.20
32.	Mandal D.K., Goswami S.N, Mandal C., Jagdish Prasad and Nirmal Kumar 2015. Economic loss estimation under rainfall aberration in semi-arid tropics of India. <i>Indian Journal of Soil Conservation</i> , <b>43</b> :182-186	5.20
33.	Nirmal Kumar, Karthikeyan, K. and Jagdish Prasad. 2016. Visual soil quality assessment – A review. <i>Journal of Soil and Water Conservation (India)</i> , <b>15</b> :6-13.	5.08
34.	Karthikeyan, K., Nirmal Kumar, Jagdish Prasad and Srivastava, Rajeev 2015. Soil quality and its assessment: A Review. <i>Journal of Soil and Water Conservation (India)</i> , <b>14</b> :100-108.	5.08
35.	Naidu, L.G.K., Dharumarajan, S., Lalitha, M., Vasundhara, R., Ramamurthy, V., Obi Reddy, G.P., Singh, R. S., Tailor, B., Rameshwar Singh, Baruah, U., Padmaiah, M., Suresh, G. and Varaprasad, K.S. 2015. Identification and delineation of potential castor growing areas in different Agro-eco sub regions of India. <i>Journal of Oilseeds Research</i> , <b>32</b> : 39-48.	5.02
36.	Ray, P., Singhal, S.K., Datta, S.P. and Rattan, R.K. 2015. Effect of zinc sulphate and organics on Zn content and yield of <i>Chenopodium</i> grown in different soils. <i>Proceedings of the National Academy of Sciences, India Section B, Biological Sciences</i> , DOI 10.1007/s40011- 015-0649.	5.00
37.	Jat, M.K., Purohit, H.S., Singh, R. and Chaudhary, S.K. 2015. Influence of integrated nutrient management practices on post harvest soil properties in sorghum-barley sequence. <i>Indian Journal of Ecology</i> , <b>42</b> (2):349-353.	4.96
38.	Anitha, M.S., Anil Kumar K.S. and Prashantha, G.M. 2015. Distribution of plant available boron in major soil types and their correlation with other properties of the soil. <i>Ecology Environment &amp; Conservation</i> , <b>21</b> :143-148.	4.89
39.	Mahendra Kumar, M. B., Subbarayappa, C. T., Ramamurthy, V., Shreenivas, B. V., Yogendra, N. G. and Vijay Kumar, C. 2015. Effect of graded levels of zinc and boron on availability of zinc and zinc fractions of Paddy. <i>Ecology Environment &amp; Conservation</i> , <b>21</b> :	4.89

	477-480.	
40.	Mahendra Kumar, M.B., Subbarayappa, C.T., Ramamurthy, V., Shreenivas, B.V., and Vijay Kumar, C. 2015. Characterization of surface soils in irrigated land management unit-1 (Command area) of Mysore District, Karnataka. <i>Ecology Environment &amp; Conservation</i> , <b>21</b> :471-476.	4.89
41.	Patil, S., Anil Kumar, K.S., Eresha and Shruthi, T.M. 2016. Characterization of soils and correlation of soil organic carbon stocks with soil properties in west coast of southern Karnataka. <i>Ecology Environment &amp; Conservation</i> , <b>22</b> :41-46.	4.89
42.	Sahu, Asha, Singh, S.K., Sahu, Nisha and Manna, M.C. 2016. Suitability of extractants for predicting availability of cadmium in Inceptisol, Alfisol and Vertisol. <i>Ecology Environment &amp; Conservation</i> , <b>22</b> (1):155-162.	4.89
43.	Srinivas, S., Srinivas, C.V., Nair, K.M., Naidu, L.G.K., Sarkar, D. and Singh, S.K. 2016. A climatic water balance model „WatBal“ for bioclimatic classification and agro-climatic analysis. <i>Ecology Environment &amp; Conservation</i> , <b>22</b> : 177-184.	4.89
44.	Bhaskar, B.P., Bobade, S.V., Gaikwad, S.S., Sarkar, D., Anantwar, S.G. and Bhattacharyya, T. 2015. Soil informatics for agricultural suitability assessment in Seoni district, Madya Pradesh, India. <i>Indian Journal of Agricultural Research</i> , <b>49</b> :315-320.	4.86
45.	Ramamurthy, V., Venugopalan, M.V., Parhad, V.N. and Prasad, J. 2015. Effect of seed priming on emergence and yield of late sown wheat on Typic Haplusterts of Central India. <i>Indian Journal of Agricultural Research</i> , <b>49</b> : 245-249.	4.86
46.	Nath, A.J., Bhattacharyya, T., Deka, Jyotirupa, Das, Ashesh Kumar Das and Ray, S.K. 2015. Management effect on soil organic carbon pools in lowland rain-fed paddy growing soil. <i>Journal of Tropical Agriculture</i> , <b>53</b> :131-138.	4.75
47.	Jagadish, M.R., Biradar, P.I., Nethravathi, B., Parvathy, S., Anil Kumar, K.S. and Viswanath, S. 2015. Nutrient dynamics through litter fall and decomposition in bamboo agroforestry systems in humid tropics of Karnataka, India. <i>The Ecoscan (Special Issue)</i> , <b>7</b> : 497-501.	4.65
48.	Katiyar, D.K., Walia, C.S., Singh, R. and Verma, T.P. 2015. Charaterization and management of salt affected soils of Sultanpur district, Uttar Pradesh. <i>Annals of Plant and Soil Research</i> , <b>17</b> (1):91-95.	4.39
49.	Gopal, Ram, Verma, T.P., Singh, S.P., Singh, Rameshwar and Katiyar, D.K. 2015. Land resource inventory for Village Level Land Use Planning. <i>Annals of Plant and Soil Research</i> , <b>16</b> (2):143-147.	4.39
50.	Patil, S., Anil Kumar, K.S. and Eresha. 2015. Depth-wise	4.39

	distribution of major, secondary and micro nutrients in rubber- growing areas of west of western ghats and west coast of southern Karnataka. <i>Annals of Plant and Soil Research</i> , <b>17</b> :293-296.	
51.	Singh U., Tomar, S.S., Singh, Rameshwar and Choudhary, Sonali 2015. Yield, nutrient uptake economics of Indian mustard as influenced by varieties, sources and levels of sulphur. <i>Annals of Plant and Soil Research</i> , <b>17</b> (3): 266-268.	4.39
52.	Gajare, A.S., Mandal, D.K., Nirmal Kumar and Jagdish Prasad. 2015. Modeling water retention characteristics of major shrink swell soils of Jalgaon District, Maharashtra, India. <i>Agropedology</i> , <b>25</b> :43-53.	4.16
53.	Gangopadhyay, S.K., Obi Reddy, G.P. Mukhopadhyay, S. and Singh, S.K. 2015. Characterization of landforms and soils in complex toposequence of Subarnarekha catchment, Chhotanagpur plateau using remote sensing and GIS. <i>Agropedology</i> , <b>25</b> (1):95-109.	4.16
54.	Meena, R.S., Natarajan, A., Hegde, R., Dhanorkar, B.A., Koyal, Arti, Naidu, L.G.K. and Singh, S.K. 2015. Characterization and classification of upland soils of Chikkarsinkere Hobli, Maddur Taluk, Mandya District of Karnataka. <i>Agropedology</i> , <b>25</b> :154-160.	4.16
55.	Sharma, R.P., Singh, R.S. and Singh, S.K. 2015. Agricultural land use planning of Bhilwara district, Rajasthan. <i>Agropedology</i> <b>25</b> :20- 32.	4.16
56.	Mahajan, M.S., Patil, N.G., Chaturvedi, A., Bhaskar, B.P., Hajare, T.N., Saroj Deshmukh, Dubey, P.N. and Singh, S.K. 2015. Development of efficient farming systems through land use planning in Dhule district, Maharashtra, India. <i>Agropedology</i> , <b>25</b> (1):110-124.	4.16
57.	Patil, N.G., Chaturvedi, A. and Singh, S.K. 2015. Land Use Planning in India: Past and Future. <i>Agropedology</i> , <b>25</b> (1):1-19.	4.16
58.	Jangir, A., Singh, V., Srivastava, P.C., Shriram and Bhatnagar, A. 2015. Phosphorus and zinc uptake and protein, lysine and tryptophane contents in quality protein maize in relation to phosphorus and zinc fertilization in Mollisols. <i>Annals of Agricultural Research</i> , <b>36</b> :50-57.	4.01
59.	Pradhan, N., Prakash, P., Manimurugan, C., Tiwari, S.K., Sharma, R.P. and Singh, P.M. 2015. Screening of tomato genotypes using osmopriming with PEG 6000 under salinity stress. <i>Research in Environment and Life Sciences</i> , <b>8</b> :245-250.	3.74
60.	Dubey, P.N, Bhaskar, B.P., Chandran, P., Singh, B., and Mishra, B.K. 2016. Geochemistry of some ferruginous soils of Kerala, India. <i>Journal of Applied and Natural Science</i> , <b>8</b> :196- 207.	3.73

61.	Srinivas, S., Naidu, L.G.K., Venkatesh, D.H., Dharumarajan, S., Vasundhara, R., Ramamurthy, V., Hegde, R., Nair, K.M. and Singh, S.K. 2015. Development of software “Cropsuit” for evaluating land suitability for different crops. <i>International Journal of Tropical Agriculture</i> , <b>33</b> : 3063-3067.	3.49
62.	Gajare, A.S., Mandal, D.K., Mandal, C. and Jagdish Prasad. 2015. Cationic micronutrient status in cotton growing shrink-swell soils of Jalgaon district of Maharashtra. <i>Indian Journal of Fertilisers</i> , <b>11</b> :66-69.	-
63.	Lalitha, M. and Dhakshinamoorthy, M. 2015. Quantity-intensity characteristics of potassium (K) in relation to potassium availability under different cropping system in alluvial soils. <i>African Journal of Agricultural Research</i> , <b>10</b> :2097-2103.	-
64.	Bhaskar, B.P. 2015. Landscape planning for agridevelopment at regional scale: an example from cotton growing Yavatmal district, Maharashtra, India. <i>Journal of Agriculture and Environment for International Development</i> , <b>109</b> : 235-269.	-
65.	Biswas, H., Raizada, A., Mandal, D., Suresh Kumar, Srinivas, S. and Mishra, P.K., 2015. Identification of areas vulnerable to soil erosion risk in India using GIS methods. <i>Solid Earth</i> , <b>6</b> : 1247–1257.	-
66.	Chary, G.R., Rao, G.R., Naidu, L.G.K., Srinivas, S., Sunil, N., Maruthi Sankar, G.R., Srinivasa Rao, Ramamurthy, V., Prathiba, G. and Rani, N., 2015. Climate and soil-site suitability criteria for <i>Jatropha curcas</i> L. cultivation under non-arable marginal lands in different agro-ecological regions of India. <i>Range Management &amp; Agroforestry</i> , <b>35</b> : 210-219.	-
67.	Dharumarajan, S., Lalitha, M., Naidu, L.G.K. and Singh, S.K. 2015. Characterisation of major forests in Tamil Nadu based on climate and soil-site characteristics for identifying potential areas for afforestation. <i>International Journal of Bio-resource and Stress Management</i> . 2015.6(6):656-666.DOI:10.5958/0976-4038.2015.00102.5	-
68.	Ravinder, J., Konde, N.M., Rohi, G.S., Naitam, R.K. 2015. Effect of crop residues, green manuring and gypsum on soil properties and yield of cotton in salt affected soils of Purna Valley in Vidarbha. <i>Progressive Research – An International Journal Society for Scientific Development</i> ISSN: 0973-6417, Online ISSN: 2454-6003 in <i>Agriculture and Technology</i> , <b>10</b> (Special-IV):2429-2432.	-
69.	Rehaman, M.A. E.A., Natrajan, A., Srinivasmurthy, C.A. and Hegde, R. 2016. Estimation of soil fertility status in physically degraded lands using GIS and remote sensing techniques in Chamarajanagara district, Karnataka, India. <i>The Egyptian Journal of Remote Sensing and Space Sciences</i> , <b>19</b> (1): 95-108.	-
70.	Sharma, R.P., Singh, R.S. and Singh, S.K. 2015. A review on	-

	agricultural land use planning: A case study of Bhilwara district. <i>Advances in Applied Science Research</i> , <b>6</b> :125-133.	
71.	Singh, Rameshwar, Singh, R.S., Jat, M.L., Purohit, H.S., Kaushik, R.A., Gajanand Jat and Singh, D.P. 2016. Influence of Soil Parent Material on Yield and Quality of Nagpur Mandarin ( <i>Citrus reticulata</i> Blanco) in Jhalawar District of Rajasthan. <i>Indian J. Fertilizers</i> , <b>12</b> (2):16-22.	-
72.	Vasu D., Singh S.K., Tiwary P., Butte P.S. and Duraisami V.P. 2015. Evaluation of groundwater quality for irrigation suitability in Thimmajipet mandal, Mahabubnagar district. <i>Andhra Pradesh Journal of Agricultural Sciences</i> <b>1</b> :1-6.	-
73.	Vasu, D., Biswas, A.K., Singh, A. 2015. Effect of biochar addition on soil carbon emission and nitrogen mineralization in some typical Indian soils. <i>International Journal of Emerging Research in Management &amp; Technology</i> , <b>4</b> :17-22.	-