Scientist Profile

Name:	Dr. Pramod Jha
Designation:	Sr. Scientist (Soil Science)
Date of Birth:	29.06.1973
Education:	Ph.D.
Major research areas:	Soil carbon stabilization, sequestration and nitrogen dynamics, Modeling of C and N
E-mail:	jha_iari@yahoo.com

Professional Experience (Applicable to all): 12 Years
Scientist-06
Senior Scientist- since July 2009 onwards

Designation	Organization	Institution	Period (From-To)
Senior Scientist	ICAR	IISS, Bhopal	17th July 2009 onwards
Scientist (Sr. Scale)	ICAR	CSWCRTI, Research Centre-Agra	16th April, 2007 to 16th July 2009
Scientist	ICAR	CSWCRTI, Research Centre-Agra	27th August 2003 to 15.07.07
Scientist	ICAR	NAARM, Hyderabad	16th April-15th August 2003

Currently, I am working on soil carbon stabilization and saturation in some soils of India. I have developed a method of determination of total organic carbon from Walkley and Black method (Communication in Soil Science and Plant Analysis, 2014). I also developed a model for determination of plant available N from organic carbon status of soil. Soil carbon sequestration rate and factors affecting potential carbon mineralization in major soil type have been computed. I am working on development of soil carbon and nitrogen prediction model utilizing the dataset of 40 years of long-term fertilizer experiments of India. I have got an opportunity to work in international laboratory at Ohio State University, Columbus, Ohio, USA as visiting scholar in the School of Environmental and Natural Resources. I have proficiency in analysis of soil and plant sample, handling of soil and crop simulation models (DNDC, DSSAT), GIS software (Arc GIS/Geomedia) and statistical software (SPSS). I have developed soil loss tolerance limit/soil quality rating for the states of Uttar Pradesh, Uttarakhand and Delhi. I have developed soil quality index for ravinous land forms of semi-arid region of India. I have also assessed soil physico-chemical and hydrological behavior under different land use systems (in Ustifluvent soil) of Yamuna ravines.

Awards (applicable to Scientists):

- Golden Jubilee Commemoration Young Scientist Award-2011, Indian Society of Soil Science, New Delhi
- Young Scientist Award-2011, India Association of Soil & Water Conservationists, Dehra dun
- Indian Society of Soil Science, New Delhi Zonal award- 2001 (North Zone)
- IARI Merit Medal-2001 (IARI, New Delhi)
- Desai & Biswas Gold Medal -2000, (Division of Soil Science & Agril. Chem., IARI, New Delhi)

Research papers: 30

Other publications- 40

Ten best publications

Jha, P. and Mohapatra, K.P. (2010) Leaf litterfall, fine root production and turnover in four major tree species of the semi-arid region of India. Plant and Soil, 326(1): 481-491, DOI 10.1007/s11104-009-0027-9.

Jha, P., Lalkaria, B.L., Biswas, A.K., Saha, R., Mahapatra, P., Agrawal, B.K., Sahi, D.K. Wanjari, R.H., Lal, R., Singh, M., Rao, A.S. (2014)Effects of carbon input on soil carbon stability and nitrogen dynamics. Agriculture, Ecosystems and Environment, 189, 36-42. 10.1016/j.agee.2014.03.019

Jha, P., Garg, N., Lakaria, B.L., Biswas, A.K., and Subba Rao A (2012) Soil and residue carbon mineralization as affected by soil aggregate size. Soil & Tillage Research, 121 (2012) 57–62. DOI: 10.1016/j.still.2012.01.018.

Jha, P., Mohapatra, K.P. and Dubey, S.K. (2010) Impact of land use on physico-chemical and hydrological properties of ustifluvent soils in riparian zone of river Yamuna, India. Agroforestry Systems, 80, 437-445. DOI 10.1007/s10457-010-9338-3.

Jha, P., Nitant, H.C. and Mandal, D. (2009) Establishing permissible erosion rates for various landforms in Delhi state, India. Land Degradation and Development 20: 92-100, DOI: 10.1002/ldr.886.

Jha, P. and Mohapatra, K.P. (2011). Soil respiration under different forest species in riparian buffer of semi-arid region of north-west India. Current Science, 100 (9), 1412-1420

Jha, P., Biswas, A.K., Lakaria, B.L. and Subba Rao A. (2010) Biochar in agriculture -prospects and related implications. Current Science 99(9), 1218-1225.

Jha, P., Biswas A.K., Lakaria, B.L, Saha, R., Singh, M. and Rao, A. S. (2014) Predicting total organic carbon content of soils from Walkley and Black analysis. Communication in Soil Science and Plant Analysis, 45 (6), 713-725. DOI:10.1080/00103624.2013.874023

Jha, P., I. Rashmi, Patel, N. S., Lakaria, B.L., Biswas, A.K., Singh, M and Rao, A.S (2012) Effect of calcium salts on residue carbon mineralization. Agrochimica, LVI (No. 3) 129-139.

Jha, P., De, A. , Lakaria, B.L., Biswas, A.K., Singh, M., Reddy, K.S. and Subba Rao, A. (2012) Soil carbon pools, mineralization and fluxes associated with land use change in vertisols of central India. National Academy Science letters (Springer), 35 (6), 475-483.