

Instructional Manuals/Research Bulletins

Instructional Manuals / Research Bulletins written by the faculty members:

Mathematics and Statistics Manual

Year	Title of Manual	Authors
1998	Design of Experiments	D.S. Hooda, Lajpat Rai, R.P. Goswami and RC Hasija
2003	Basic Statistical Manual for Undergraduate Students	B.K.Hooda, R. S. Panwar and Deepak Grover
2005	Mathematics for Undergraduate Students	Asha Ahuja, Manju Tonk and Deepak Grover
	Statistical Methods for Agricultural Students	B.K. Hooda, R.S. Panwar and. Deepak Grover
	Designing and Analysis of Agricultural data	Lajpat Rai and Deepak Grover
2006	Mathematics for Bioinformatics-I	Asha Ahuja, Manju Tonk and Deepak Grover
	Mathematics for Bioinformatics-II	Manju Tonk, Asha Ahuja and Deepak Grover
	Statistical Analysis Through MS-Excel	S.D. Batra and Deepak Grover
2008	Statistical Methods for Bioinformatics	B.K. Hooda, R.S. Panwar and Lajpat Rai
	Business Statistics	S.C. Gupta and Lajpat Rai
2009	Non-parametric Tests	S.C. Gupta, S.D.Batra and Lajpat Rai
	Statistical Methods for Social Sciences	B.K. Hooda, R.S. Panwar and Lajpat Rai
	Statistical Methods for Applied Sciences	S.C. Gupta and B.K. Hooda
2012	Elementary Mathematics for students of Agriculture	Manoj Goyal, Manju S. Tonk and Ramniwas
	Introduction to Statistical Methods	B. K. Hooda, R. C. Hasija, M. Goyal and Kiran
2013	Elementary Mathematics for students of Agriculture	Manju Tonk and Ramniwas
2014	Bio-Statistics and Computers	B. K. Hooda and Lajpat Rai
	Elementary Statistics	B. K. Hooda and Lajpat Rai and Aneja
	Sampling Techniques	S Bhatnagar, B.K. Hooda, Manoj Kumar and Aneja
	Statistical Methods in Biosciences for Teaching and Research using SAS Procedures	U. Verma and H.P. Piepho
2015	Biometrics for Teaching and Research using SAS Procedure	U. Verma and H.P. Piepho

Research Bulletins

2006	Autoregressive Integrated Moving Average (ARIMA) Wheat Yield Modelling in Haryana	Urmil Verma and Deepak Grover
2007	Statistical Methods for Pre-harvest Forecasting of Cotton Yield	Deepak Grover, Lajpat Rai and D.R. Aneja
2009	Regression, Time Series and Mixed Modeling in Context of Sugarcane Yield Prediction in Haryana using the SAS System	Urmil Verma and Lajpat Rai
2011	Incomplete Block Designs for Plant Breeding Experiments	D.R Aneja, Lajpat Rai and S.S. Dhanda
	Regression, multivariate techniques, time series and mixed modelling in context of pre-harvest wheat, mustard, cotton and sugarcane yield prediction in Haryana using the SAS system	U. Verma, D.S. Dabas and J.P. Singh
	Crop yield forecasting in Haryana: 1986 to 2010	U. Verma, D.S. Dabas, M.S. Grewal,, J.P. Singh, R.S. Hooda, M. Yadav, M.H.

Books published by the faculty members

Title of the Book	Authors	Publisher
Characterization and Analysis of Block Designs	A.K. Nigam, P.D.Puri and V.K.Gupta	John Wiley, New Delhi
Theory and Analysis of Sample Survey	Daroga Singh and F.S. Chaudhary	Wiley Eastern Ltd., New Delhi
Aryabhata- Life and Contribution	D.S.Hooda	New Age International, Delhi
Fundamentals of Mathematics	D.S.Hooda	Jeevan Publishers
Elements of Mathematics	D.S.Hooda	Jeevan Publishers
Applied Statistical Methods	L.S. Kaushik, B.D. Mehta, Lajpat Rai, R.P. Goswami and R.C.Hasija	Dhanpat Rai & Co., New Delhi
Recent Advances in Mating Designs	L.S. Kaushik and R.C.Hasija (edited)	Dhanpat Rai & Co., Delhi

undaments of Economic Statistics	Deepak Grover, S.D.Batra and D.R. Aneja	Agrotech Publishing Academy, Udaipur
Experimental Designing and Data Analysis in Agriculture and Biology	Deepak Grover and Lajpat Rai	Agrotech Publishing Academy, Udaipur

Publication during the last five years (2013-18)

1.	Aneja, D.R. and Rai, Lajpat (2013). Estimation of cotton yield through growth indices of plant biometrical characters. <i>J. Cotton Res. Dev.</i> 27 (1): 134-137.	4.69
2.	Kumar, Hemant and Hooda, B.K. (2013). Prediction of lifetime milk production from early lactation traits in crossbred cattle. <i>Trends in Biosciences</i> 6 (91): 95-96.	
3.	Kumar, Manoj, Singh, Labh, Dhillon, Ashok, Anita and Hasija, R.C (2013): Application of Regression technique to estimate the determinants on which consumption of Milk and Milk products depends. <i>Annals of Agri Bio Research</i> Vol 18(2): 260-262.	3.97
4.	Poonia, Hemant, Umashanker and Dhayal, S. (2013). Hydro magnetic heat transfer flow of a viscous incompressible fluid past an exponentially accelerated vertical plate with variable surface temperature, <i>J. of Engineering, Science & Management Technology</i> , 3: 59-63.	-
5.	Verma, Urmil, Aneja, D. R. and Rai, Lajpat (2013). Forecasting of yield of Bt-cotton using biometrical characters in Hisar district of Haryana, India. <i>Environment and Ecology</i> , 31(2) : 527-531.	4.18
6.	Verma, Urmil, Goyal, M. and Goyal, A. (2013). Forecasting Sugarcane Yield in Haryana (India)- A Time Series Analysis. <i>Environment and Ecology</i> , 31(4A): 1942-45.	4.18
7.	Poonia, Hemant and Chaudhary, R. C. (2014). Effects of MHD laminar flow between a fixed Impermeable disk and a porous rotating disk. <i>Int. J. of Engineering Research & Technology</i> , 3: 736-743.	-
8.	Kumar, Hemant and Hooda, B.K. (2014): Prediction of Lifetime Milk Yield by Using Penalized Regression in Crossbred Cattle. <i>Trends in Biosciences</i> , 7(19): 2886-2888.	3.94
9.	Kumar, Hemant and Hooda, B.K. (2014): Prediction of milk production using artificial neural network. <i>Current Advances in Agricultural Sciences</i> , 6(2): 173-175	4.69
10.	Verma, Urmil, Hooda, B.K. and Aneja, D.R. (2014). Role of weather variables in wheat yield prediction for western zone of Haryana (India). <i>Annals of Agri Bio Research</i> , 19 (2): 312-15.	3.97
11.	Verma, Urmil, Piepho, H.P., Ogutu, J.O., Kalubarme, M.H. and Goyal, M. (2014). Development of agromet models for district-level cotton yield forecasts in Haryana State. <i>International J. of Agricultural and Statistical Sciences</i> , 10(1): 59-65.	5.13
12.	Verma, Urmil, Goyal, A., Verma, P., Sharma, M.P. and Parwasi, R. (2014). Autoregressive Integrated Moving Average models for wheat yield forecasting in Haryana. <i>Annals of Agri Bio Research</i> , 19(3): 530-33.	3.97
13.	Verma, S.S., Verma, Urmil and Pahuja, S.K. (2014). Studies on seed viability and vigour of fodder sorghum [<i>Sorghum bicolor</i> (L.) Moench] seeds stored under ambient conditions. <i>Forage Research</i> , 40(2): 80-85.	4.48

14.	Verma, S.S., Verma, P.K. and Verma, Urmil (2014). Standardization of seed germination techniques in Khurasani-Ajavayan (<i>Hyoscyamus niger.</i>) seeds. <i>Indian Journal of Agricultural Sciences</i> , 84(11): 1382-85.	6.17
15.	Verma, Urmil, Piepho, H.P., Goyal, M. Goyal, A. and Verma, P. (2014). Impact of climatic variables on sugarcane yield prediction in Haryana (India). <i>Advances and Applications in Statistics</i> , 39(1): 25-35.	-
16.	Tonk, M.S. and Kaushik, Indu (2014). Converse of an external problem in polynomials. <i>PEDANTIC- An International Refereed Research Journal</i>	-
17.	Chaudhary, S., Sagar, P., Hooda, B.K. and Arya, R.K.(2015). Multivariate Analysis of Pearl Millet Data to Delineate Genetic Variation; <i>Forage Res.</i> , 40(4): 201-208.	4.48
18.	Goyal, M. and Verma, Urmil (2015). Development of weather-spectral models for pre-harvest wheat yield prediction on agro-climatic zone basis in Haryana. <i>International J. of Agricultural and Statistical Sciences</i> , 11(1): 73-79.	5.13
19.	Goyal, M. and Verma, Urmil (2015). Spectral-weather-crop yield forecasting: Discriminant function analysis. <i>Journal of Applied Probability and Statistics</i> , 10(1): 1-14.	-
20.	Kumar, H and Hooda, B.K (2015). Comparison of penalized and multiple linear regression for prediction of milk yield in crossbred cattle. <i>Int. J. Agricult. Stat. Sci.</i> 11(1): 151-156.	5.13
21.	Kumar, Manoj, Chander, Shekhar, Hasija, R.C. (2015). Trend Analysis of Cotton Crop in Gujarat. <i>Annals of Agri. Bio Research</i> , 20(1): 75-77	3.97
22.	Kumar, Ramesh, Verma, Urmil, Malik, V. and Dev Vart (2015). Multivariate analysis for selection of diverse genotypes in Pearl millet germplasm. <i>Forage Research</i> , 41(2): 73-77.	4.48
23.	Kumar, V., Verma, S.S., Verma, Urmil and Kumar, A. (2015). Seed viability and vigour in naturally aged seeds of coriander (<i>Coriandrum sativum L.</i>). <i>Indian Journal of Agricultural Sciences</i> , 85(4): 108-12.	6.17
24.	Poonia, Hemant; Umashanker and Dhayal, S. S. (2015).The influence of Radiative heat transfer and hall current on MHD flow in a vertical rotating channel with slip condition, <i>Int. J. of Engineering Research</i> , 4: 325-330.	-
25.	Sanjeev, Verma, Urmil and Tonk, M.S.(2015). Time series modelling for sugarcane yield estimation in Haryana. <i>International Journal of Applied Mathematics and Statistical Sciences</i> , 4(6): 53-62.	3.45
26.	Singh, B. K., W. W. Chanu and Manoj kumar (2015). Exponential Chain Ratio Cum Dual to Ratio Estimator of Finite Population Mean under Double Sampling Scheme. <i>An International Journal of Statistics applications and probability</i> , 4 (1): 37-51.	-
27.	Verma, P. and Verma, Urmil (2015). Vector error correction modelling to estimate the factors affecting foreign direct investment in India. <i>International J. of Business and General Management</i> , 4(5), 39-48.	3.51

28.	Verma, S.S., Jain, U.K., Kumar, K. and Urmil Verma (2015). Varietal identification using SDS-PAGE marker in rice (<i>Oryza sativa L.</i>). <i>Environment & Ecology</i> , 33(1A): 375-380.	4.18
29.	Verma, Urmil, Aneja, D.R. and Hooda, B.K. (2015). Principal component technique for pre-harvest estimation of cotton yield based on plant biometrical characters. <i>J. of Cotton Research and Development</i> , 29 (2): 339-343.	4.69
30.	Verma, Urmil, Aneja, D.R. and Tonk, D.S. (2015). Parameter Estimation of pre-harvest yield forecast models for cotton crop in Haryana. <i>Book of Lead Papers and Invited Papers released in National Symposium on Future Technologies- Indian cotton in the next Decade during 17-19 December, 2015 at Acharya Nagarjuna University, Guntur, India, pp. 262-69.</i>	-
31.	Verma, Urmil, Goyal, M. and Goyal, A. (2015). ARIMA versus State Space modelling ó an application in agriculture. <i>Advances in Applied Research</i> : 7(2): 1-5.	3.22
32.	Verma, Urmil, Kumar, Ramesh and Dalal, M.S. (2015). Genetic Diversity Analysis in Pearl Millet Germplasm. <i>International Journal of Agricultural and Statistical Sciences</i> , 11(2): 335-340.	5.13
33.	Verma, Urmil, Thakral, N.K. and Neeru (2015). Genetic diversity analysis in Indian Mustard [<i>Brassica juncea</i> (L.) Czern & Coss.]. <i>International Journal of Applied Mathematics and Statistical Sciences</i> , 5(1): 25-34.	3.45
34.	Verma, Urmil, Piepho, H.P., Goyal, A., Ogutu, J.O. and Kalubarme, M.H. (2016). Role of Climatic Variables and Crop Condition Term for Mustard Yield Prediction in Haryana (India). <i>International J. of Agricultural and Statistical Sciences</i> , 12(1): 45-51.	5.13
35.	Verma, Urmil, Piepho, H.P., Hartung, K., Ogutu, J.O. and Goyal, A. (2015). Linear mixed modelling for mustard yield prediction in Haryana. <i>J. of Mathematics and Statistical Sciences</i> , 1(3): 96-105.	-
36.	Vijay Kumar, O.P. Sheoran and Abhey Singh (2015). Effectiveness of Social Audit in MGNREGA (Accepted for publication in <i>Kautilya</i>). Paper presented in 28 th Conference of <i>Haryana Economic Association</i> on Oct 31 & Nov 1, 2015.	
37.	Goyal, M. and Urmil Verma (2016). Zonal trend-agrometeorological models for wheat yield estimation in Haryana. <i>Journal of Applied and Natural Science</i> , 8(3), 1485-692.	4.84
38.	Hooda, B.K. and Poonia, Hemant (2016) A Note on Estimation of Order Restricted Parameters of Two Uniform Distributions, <i>Statistics & Applications</i> , 14: 31-41.	4.57
39.	Kumar, Manoj, Dagar, Chander, Shekhar and Manocha, Veena (2016). Maximum rainfall probability distribution pattern in Haryana-A case study. <i>Journal of Applied and Natural Science</i> . <i>Journal of Applied and Natural Science</i> 8 (4): 2029-2036.	4.84
40.	Kumar, Manoj, Paul, Ranjit Kumar and Singh, B.K. (2016). Estimating area, production and productivity of cotton crop in Haryana State, <i>J.Cotton Res.Dev.</i> 30(2): 317-323.	4.69

41.	Kumar, Manoj, S.Bhatnagar, B. K. Singh and O.P.Sheoran (2016): Estimation of population mean using median as auxiliary variable. <i>International Journal of Agriculture and Statistical sciences</i> : 12 (1): 83-87.	5.13
42.	Khan, Mujahid, Hasija, R.C., Aneja, D.R. and Sharma, Manish (2016). A uniformity trial on Indian Mustard for determination of optimum size and shape of blocks. <i>Journal of Applied and Natural Science</i> , 8(3): 1589-1593	
43.	Poonia, Hemant and R. C. Chaudhary (2016). Mass transfer with chemical reaction effects on MHD free convective flow past an accelerated vertical plate embedded in a porous medium, <i>Int. J. of Applied Mathematics & Statistical Sciences</i> , 5: 33-46.	3.45
44.	Poonia, Hemant and Umashanker (2016). Radiation effect on natural convection flow past an impulsively started infinite vertical plate through porous medium in the presence of magnetic field and first order chemical reaction, <i>Int. J. of Applied Mathematics & Statistical Sciences</i> , 5: 17-28.	3.45
45.	Poonia, Hemant, Tonk, M. S. and Jitender Kumar Bhatia (2016). A linear programming model to find optimum combination of crop farm activities for the rural farmers, <i>Annals of Agri Bio Research</i> , 21 (2): 160-163.	3.97
46.	Ravita and Verma, Urmil (2016). Application of ARIMA modeling for mustard yield prediction in Haryana. <i>International Journal of Applied Mathematics and Statistical Sciences</i> , 4(6): 23-28.	3.45
47.	Roy, Sudesh, R. and Verma, Urmil (2016). Development of weather-yield models for wheat crop in western zone of Haryana. <i>International Journal of Pure and Applied Mathematical Technologies</i> , 1(2): 30-36.	-
48.	Salinder and Verma, Urmil (2016). Impact of climatic variables on wheat yield estimation in southern zone of Haryana. <i>International Journal of Computer & Mathematical Sciences</i> : 5 (12): 20-25.	-
49.	Salinder and Verma, Urmil (2016). Linear mixed effects models for wheat yield estimation in Haryana. <i>International Journal of Computer & Mathematical Sciences</i> , 5(12): 12-19.	-
50.	Sanjeev and Verma, Urmil (2016). ARIMA versus ARIMAX modelling for sugarcane yield prediction in Haryana. <i>International J. of Agricultural and Statistical Sciences</i> , 12(2): 327-334.	5.13
51.	Suman and Verma, Urmil (2016). Autoregressive Integrated Moving Average models for sugarcane yield estimation in Haryana. <i>International Journal of Computer & Mathematical Sciences</i> , 5 (12): 33-38.	-
52.	Tanwar, Nitin, Kumar Sunil, Siodia, B.V.S. and Hooda, B.K. (2016) Dynamics of Socio-Economic Development of Districts of Eastern Uttar Pradesh. <i>Journal of Applied and Natural Science</i> 8(1): 5-9	4.84
53.	Umashanker; Poonia, Hemant and Sarova, Amita (2016). Influence of heat and mass transfer on visco-elastic hydro-magnetic flow through porous channel with slip condition and heat source, <i>Int. J. of Mathematics and Computer Applications Research</i> , 6: 21-32.	3.76

54.	Sudesh, Verma, P. and Verma, Urmil (2016). Use of Transfer Function Models for FDI Estimation in India. <i>International Journal of Pure and Applied Mathematical Technologies</i> , 1(2): 37-43.	-
55.	Verma, Sudesh, P. and Verma, Urmil (2016). Using logistic regression to predict wheat yield in western zone of Haryana. <i>International Journal of Computer & Mathematical Sciences</i> , 5(12): 26-32.	-
56.	Verma, Urmil, Ramavtar and Pankaj (2016). Multivariate analysis for selection of diverse genotypes in Indian mustard [<i>Brassica juncea</i> (L.) Czern & Coss.]. <i>Trends in Biosciences</i> , 8(23), 6534-40.	3.94
57.	Verma, Urmil, Ramesh Kumar and Dalal, M.S. (2016). An application of multivariate techniques for divergence study in Pearl millet germplasm. <i>Statistics and Applications</i> , 14 (1&2): 63-73.	4.57
58.	Sheoran, S . Beniwal, B.S.; Dudi, O.P.; Sheoran, O.P. and Dalal, R.P.S. (2016). Effect of Nitrogen and Spacing on Flower Yield and Bulb Production of Tuberose cv. Prajwal. <i>Annals of Agri-Bio Research</i> 21 (2) : 155-159.	
59.	Godara, P. and Aneja, D.R. (2017). Pre-harvest wheat yield prediction through agrometeorological models for western zone of Haryana. <i>Environment & Ecology</i> . 35(4D): 3395-3400	4.18
60.	Hooda, Ekta, Hooda, B.K. and Manocha, Veena. (2017). Dynamics of Inter-Districts Developmental Disparities in Haryana. <i>Journal of Applied and Natural Science</i> 9(2): 983-991.	4.84
61.	Hooda, Ekta, Hooda, B.K. Manocha, Veena and Tanwar Nitin (2017). Principal Dimensions of Regional Agricultural and Socio-Economic Disparities in Haryana. <i>Advances in Research</i> , 10(6): 1-11	4.8
62.	Khan, Mujahid, Hasija, R.C., Hooda, B.K., Tanwar, Nitin and Kumar, Banti (2017). Relative Efficiency of Experimental Designs in Relation to Various Size and Shape of Plot and Blocks in Indian Mustard (<i>Brassica Juncea</i> L.) Crop. <i>Int. J. Agricul. Stat. Sci</i> 13(1): 253-258.	5.13
63.	Kumar, Manoj, Rajendra, Hasija, R.C. (2017): ARIMA Modeling and Forecasting of Cotton Productivity in India. <i>Environment and Ecology</i> : 35 (1A): 224-228	4.18
64.	Kumar, Manoj; Anurag; Singh, Diwan and Singh, Raj (2017): Identifying best probability distribution for events of maximum rainfall-A case study of Karnal, Haryana. <i>Environment & Ecology</i> , 35(1B): 434-439	4.18
65.	Ravita and Verma, Urmil (2017). Use of crop condition based dummy regressor and weather input for parameter estimation of mustard yield forecast models in Haryana. <i>Journal of Applied and Natural Science</i> , 9(3): 1703-09.	4.84
66.	Salinder and Verma, Urmil (2017). Multivariate statistical techniques for parameter estimation of weather-crop yield forecast models on agro-climatic zone basis in Haryana. <i>International J. of Agricultural and Statistical Sciences</i> , 13(1): 97-104.	-
67.	Tanwar, Nitin and Hooda, B.K. (2017). Estimation of Aspect Based Multidimensional Poverty in Rural Haryana. <i>Advances in Research</i> 10(5): 1-8.	4.80

68.	Rani, M., Sheoran, O.P., Sheoran, R.K. , Jambholkar, S. and Chander, S. (2017). Studies on genetic variability and interrelationship of seed yield and quality traits in germplasm collection of sunflower (<i>Hellianthus annuus L.</i>). <i>Annals of Biology</i> 33(1): 82-85.	
69.	Rani, M., Sheoran, O.P., Sheoran, R.K. , and Chander S.(2017). Genetic variability, character association and path analysis for agronomic traits in sunflower (<i>Hellianthus annuus L.</i>) <i>Annals of Agri Bio Research</i> 22(1):31-35.	3.97
70.	Umashanker, Poonia, Hemant and Dhayal, S. S. (2018). Heat and mass transfer with chemical reaction effects on MHD free convection flow through a moving permeable vertical surface embedded in a porous medium. <i>International Journal of Mathematics and Computer Applications Research (IJMCAR)</i> , 8(3), 11-24.	3.76
71.	Umashanker, Poonia, Hemant and Dhayal, S. S. (2018). Unsteady MHD poiseuille dissipative fluid flow through porous medium with transpiration cooling. <i>International Journal of Applied Mathematics & Statistical Sciences (IJAMSS)</i> , 7 (3), 59-70	3.45
72.	Bishnoi Sudha and B. K. Hooda (2018) Yield Stability and Association among Parametric and non-Parametric Stability Measures for Wheat (<i>Triticum aestivum</i>) Genotypes in Haryana. <i>Int. J. Agricult. Stat. Sci.</i> Vol. 14, No. 1, 323-330	5.13
73.	Bishnoi, S. and Hooda, B.K. (2018). Yield Stability and Association among Parametric and Non-parametric Stability Measures for Wheat (<i>Triticum aestivum L.</i>) Genotypes in Northern Region of India. <i>International Journal of Agriculture, Environment and Biotechnology</i> , 11(1): 103-109	4.69
74.	Tanwar, Nitin and Hooda, B.K. (2018). Aspect based multidimensional poverty status of households in rural and urban Haryana. <i>Int. J. Agricult. Stat. Sci.</i> 14 (1): 339-348. (NAAS Rating = 5.13)	5.13
75.	Singhdoha, Amit, Bangarwa, KS, Johar, Vishal, Hooda, B.K. and Dhillon, RS (2018). Assessment of general volume table for populus deltoides in northern Haryana. <i>Journal of Pharmacognosy and Phytochemistry</i> 7(1): 1665-1668. (NAAS Rating 5.21).	5.21
76.	Bhushana B. V. and B. K. Hooda (2018). Fuzzy majority approach for modeling spatial and temporal distributions of daily rainfall in western zone of Haryana. <i>Int. J. Agricult. Stat. Sci.</i> Vol. 14, Supplement 1, pp. 57-67.	5.13
77.	Poonam Redhu and Vikash Siwach, An extended lattice model accounting for traffic jerk, <i>Physica A(Elsevier)</i> , UGC Sr. No. 30751, ISSN 0378-4371, 492 (2018) 14736 1480.	
78.	Anurag, Kumar, A., Singh, D., Singh, R., Kumar, Manoj , and Singh, S., Kumar S. (2018). Changes in weather entities and extreme events in western Haryana, India, <i>Journal of Agrometeorology (Special issue)</i> .(NAAS 2018:6.40),135-142	6.40
79.	Kumar,Manoj ; Anurag; Kumar,Sunil;Singh,Bhim and Singh,Raj(2018). Estimation of return period probability of maximum rainfall in a day for Hisar,Haryana, <i>Journal of Agrometeorology (Special issue)</i> . (NAAS 2018:6.40),128-134	6.40
80.	S. Devi, Satpal; H. S. Talwar; Ramprakash ;V. Goyal ;M. Goyal and N. Kumar (2018).Physiological variability of Sorghum (<i>Sorghum Bicolor (L.) Moench</i>) under starch stress.. <i>Forage Res.</i> Pp. 44(2): 99-102	4.84

81.	Ashu, Bishnoi, D.K., Bhatia, J.K. and Sheoran, O.P. (2018). An economic analysis of potato seed production in Haryana. <i>Indian Journal of Economic and Development</i> 14(1a):113-119.	4.82
82.	Ashu, Bishnoi, D.K., Bhatia, J.K., Baskaur and Sheoran, O.P. (2018). Production and marketing challenges of potato cultivation in Haryana, India. <i>International Journal of Current Microbiology and Applied Sciences</i> 7(3):1349-1355.	5.38