

## Evaluative Report of the Department

1. Name of the Department : **Agronomy**
2. Year of establishment: **1968**
3. Is the Department part of a School/Faculty of the university? **Faculty of Agriculture**
4. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG, PG, Ph.D.**
5. Interdisciplinary courses and departments involved: **One Course Experiential learning.**
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: **IGNOU**
7. Details of programmes / courses discontinued, if any, with reasons: **Nil**
8. Examination system: Annual/ Semester/Choice Based Credit System: **Semester**
9. Participation of the department in the courses offered by other departments: **IRDMangement Need based.**
10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled	Vacant
<b>Teaching</b>			
Professor	02	01	01
Associate Professor	07	05	02
Assistant Professor	17	17	Nil

11. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name of teacher	Qualification	Designation	Specialization	No. of years of experience	No. of Ph.D students guided for the last 4 years
Dr. Rajendra Prasad Singh	Ph. D.	Professor-cum-Agronomist and Head	<ul style="list-style-type: none"> <li>• Crops/ Cropping System</li> <li>• Dry land Agriculture</li> </ul>	36Yrs	01
Dr. A. Sen	Ph. D.	Professor	Nutrient management	32 yrs	-
Dr. J. S. Bohra	Ph. D.	Professor-cum Sr.-Agronomist	Farming system & Soil fertility management	27 yrs	01
Dr. Y. Singh	Ph. D.	Professor	Soil fertility management	27 yrs	1
Dr. Ramesh. K. Singh	Ph. D.	Professor	Weed management	27 yrs	1
Dr. U. P. Singh	Ph. D.	Professor	Conservation Agriculture	26 yrs	02
Dr. Ram.	Ph. D.	Professor	Farming systems	25 yrs	01

K. Singh			& water management		
Dr. R. S. Singh	Ph. D.	Professor	Pulse-Agronomy	31 yrs	02
Dr. J. P. Singh	Ph. D.	Professor			
Dr. R. N. Singh	Ph. D.	Professor	Maize agronomy & soil fertility management	Research-34 yrs Teaching- 27 yrs	02
Dr. V. K. Srivastava	Ph. D.	Professor	Rice Agronomy soil fertility & weed science	26 yrs	01
Dr. T. K. Singh	Ph. D.	Professor	Agril. Met & Dryland Agronomy	30 yrs	
Dr. S. P. Singh	Ph. D.	Professor	Soil fertility management	18 yrs 6 months	-
Dr. M. K. Singh	Ph. D.	Assoc. Professor	Weed Science & Agro-met.	13 yrs 9 months	-
Dr. J. K. Singh	Ph. D.	Assistant Professor (stage 3)	Soil fertility management, cropping system	13 yrs	-
Dr. R. N. Meena	Ph. D.	Assistant Professor (stage 2)	Soil fertility management, cropping system	06 yrs	-
Dr. Saroj kr. Prasad	Ph. D.	Assistant Professor (stage 2)	Crop nutrient management	06 yrs	-
Dr. M. K. Singh	Ph. D.	Assistant Professor (stage 2)	Weed management, organic farming, MAPs	8 years	-
Dr. Rajesh K. Singh	Ph. D.	Assistant Professor	Oil seed agronomy, soil fertility & weed management	8 years	-
Dr. Ram Swaroop Meena	Ph.D	Assistant Professor	Soil fertility	2 year 1 month	-
Dr. Sunil Kr. Verma	Ph.D	Assistant Professor	Weed, water and nutrient management	2 year 1 month	-
Dr. Rajesh Kumar	Ph.D	Assistant Professor			-

12. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty - programme-wise information: Agro-forestry at RGSC Barkachha- 40%.

14. Programme-wise Student Teacher Ratio: M.Sc (Ag.)- 1.73, Ph.D- 2

15. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Technical			
	Sanctioned	Filled	Vacant
Group C	03	03	Nil
Group D	03	03	Nil

16. Research thrust areas recognized by funding agencies

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c)

Total grants received. Give the names of the funding agencies and grants received project-wise.

S. No	Project Title	Name of PI	Funding agency	Start Date (dd/mm/yy)	End Date (dd/mm/yy)	Total Budget (inRs. lakhs)
1.	Accelerating the tillage revolution in the Indus-Ganges Basin: Fostering adoption of resource conservation and food security	Dr.U.P.Singh	USAID/RWC-CIMMYT	2006	2008	4.00
2.	Conservation agriculture, livestock and livelihood strategies in the IndoGangetic Plains of south Asia; Synergies and tradeoffs	Dr.U.P.Singh	SLP/CIMMYT	2006	2009	3.73
3.	Revitalizing the rice –wheat cropping systems of the InddoGangetic plains : :Adaptation and adoption of RCTS in india, Bangladesh and Nepal	Dr.U.P.Singh	USAID/IRRI	2008	2009	3.93
4.	Enhancing Farmers Income and Livelihoods through Integrated crop and resource Management in Rice Wheat system in South Asia- Socioeconomic and environmental impact asesement.	Dr.U.P.Singh	ADB/IRRI	2008	2009	3.53
5.	Crop weather yield model for growth and production estimate in Vindhyan Zone	Prof.T.Singh, Prof.R.P.Singh and Dr.M.K.Singh	UPCAR, Lucknow	2009	2011	4.2
6.	Performance of cultivars and weed management practices under stale bed method of crop establishment in DSR	Dr.M.K.Singh (Asso.Prof.)	UGC New Delhi	2009	2012	8.16
7.	Non chemical management of <i>P. minor</i> in wheat through mulching and intercropping	Dr.M.K.Singh (Assisst.prof.)	CST, UP	2008	2011	5.96
8.	Development of farming system modules for small farm household of Varanasi region	Dr.J.S.Bohra, Dr. kalyan Singh, Dr.S.Kushwaha , Dr.R.N.Singh and Dr.J.K.Singh	UPCAR	2008	2011	14.95
9.	Impact of INM on nutraceutical value of mustard	Dr.Rajesh Kumar singh	CST UP	2009	2012	6.5

10.	Development of Agri-horti-silvi-pastoral model for varying farming situation of <i>Vindhyan</i> region of eastern U.P.	Prof. Ram Kumar Singh	UGC New delhi	2008	2011	8.6
11.	USAID Famine funded CSISA Project on "Weed management in zero till direct seeded rice"	Prof. U.P.Singh	IRRI, Philipines	2009	2012	4.26
12.	BHU-RWC- Collaborative Project on Resource Conservation Technologies	Prof.U.P.Singh	RWC/IRRI	2009	2010	2.4
13.	Farmers participatory research on resource conserving technologies	Prof.U.P.Singh	CIMMYT	2009	2010	1.00
14.	Ensuring livelihood security through watershed based farming system modules for disadvantaged districts of Mirzapur and Sonbhadra in <i>Vindhyan</i> region	Prof. J.S.Bohra Prof. S. Kushwaha BHU , Dr. D. S. Yadav, IIVR Dr. (Mrs.) Ragini Prem, BSA, Sonbhadra Sri S.K.Jalan, SSS, Mirzapur	NAIP, New Delhi	2008	2012	688.039
15.	Assessment of locally available crop residue and organic wastes and as source of compost for sustained crop production in Varanasi region	Prof. K. Singh & Prof. J.S. Bohra	UPCAR	2008	2011	14.29
16.	Development and strengthening of infrastructure facilities for production and distribution of quality seed	Prof. K. Singh & Dr. P.K. Singh	Ministry of Agriculture, Govt of India	2009	2011	69.00
17.	Establishment of modern irrigation system for demonstration, training & enhancing water use efficiency	Prof. Ram K. Singh, Prof.A.Sen and Prof.R.P.Singh	Government of Uttar Pradesh	2011	2012	8.75
18.	Use of ITK in Agriculture in Eastern U.P	Prof. Ram. K.Singh Prof.A.Sen and Dr. Amlan Ghosh and Dr. B. Jirli	Government of Uttar Pradesh	2011	2013	10.4
19	Project on Improved crop management for raising productivity in the submergence prone and salt affected rainfed lowlands in South Asia	Prof.U.P.Singh Prof.Y.Singh Dr.P.K.Singh	IRRI/IFAD/BH U Collaborative	2011	2012	2.67
<b>Total Grants</b>						<b>864.369</b>

18. Inter-institutional collaborative projects and associated grants received

a) All India collaboration

1.	Crop weather yield model for growth and production estimate in Vindhyan Zone	Prof.T.Singh, Prof.R.P.Singh and Dr.M.K.Singh	UPCAR, Lucknow	2009	2011	4.2
2.	Ensuring livelihood security through watershed based farming system modules for disadvantaged districts of Mirzapur and Sonbhadra in <i>Vindhyan</i> region	Prof. J.S.Bohra Prof. S. Kushwaha BHU , Dr. D. S. Yadav, IIVR Dr. (Mrs.) Ragini Prem, BSA, Sonbhadra Sri S.K.Jalan, SSS, Mirzapur	NAIP, New Delhi	2008	2012	688.039

b) International

1.	Accelerating the tillage revolution in the Indus-Ganges Basin: Fostering adoption of resource conservation and food security	Dr.U.P.Singh	USAID/RWC-CIMMYT	2006	2008	4.00
2.	Conservation agriculture, livestock and livelihood strategies in the IndoGangetic Plains of south Asia; Synergies and tradeoffs	Dr.U.P.Singh	SLP/CIMMYT	2006	2009	3.73
3.	Revitalizing the rice –wheat cropping systems of the InddoGangetic plains : :Adaptation and adoption of RCTS in india, Bangladesh and Nepal	Dr.U.P.Singh	USAID/IRRI	2008	2009	3.93
4.	Enhancing Farmers Income and Livelihoods through Integrated crop and resource Management in Rice Wheat system in South Asia-Socioeconomic and environmental impact asesment.	Dr.U.P.Singh	ADB/IRRI	2008	2009	3.53
5.	USAID Famine funded CSISA Project on "Weed management in zero till direct seeded rice"	Prof. U.P.Singh	IRRI, Philipines	2009	2012	4.26
6.	BHU-RWC- Collaborative Project on Resource Conservation Technologies	Prof.U.P.Singh	RWC/IRRI	2009	2010	2.4
7.	Farmers participatory research on resource conserving technologies	Prof.U.P.Singh	CIMMYT	2009	2010	1.00
8.	Project on Improved crop management for raising productivity in the submergence prone and salt affected rainfed lowlands in South Asia	Prof.U.P.Singh Prof.Y.Singh Dr.P.K.Singh	IRRI/IFAD/BHU Collaborative	2011	2012	2.67

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received: **Department has received an amount of Rs. 20 lakh for Departmental Research Strengthening under UGC-SAP/CAS.**

20. Research facility / centre with
- state recognition: **Micro irrigation, Amino acid analyzer**
  - national recognition : **Integrated Farming System and Dry land agriculture**
  - international recognition: **Conservation Agriculture based farming system**
21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
22. Publications:
- \* Number of papers published in peer reviewed journals (national / international)

### List of publication

Sl. No.	2008-2012	NAAS Rating	TR Impact factor
1.	Bazaya, B.R., Avijit Sen and <b>V.K. Srivastava</b> (2008). Effect of sources and levels of nitrogen on growth and yield of rice under different planting methods. <i>Environment &amp; Ecology</i> . 26(4B): 2095-2098.	2.1	
2.	<b>Srivastava, V.K.</b> , Vipin Kumar, S.P. Singh, R.N.Singh and Uma Shankar Ram (2008). Effect of varying fertility levels and organic manures on yield and nutrient up take of hybrid rice and its residual effect on wheat. <i>Environment &amp; Ecology</i> , 26 (4): 1477-1480.	2.1	
3.	<b>Srivastava, V.K.</b> , T.Krushna Mohan, R.P. Singh and R.N. Singh (2008) Bio-efficacy of sulfonyl urea herbicides in transplanted rice ( <i>orgza cativa L.</i> ) <i>Indian journal of weed science</i> 40 (3 & 4):193-195.	2.9	
4.	J.P.Singh, T.Singh, Y.Singh, R.P.Singh and S.R.Singh (2008). Drought Management options for Rainfed Upland Rice in Eastern U.P. National Seminar on integrated nutrient Management in Fainfed Agro-Ecosystem, held at CRIDA, Hyderabad 3-4 March, 2008.		
5.	<b>Singh, R.S.</b> , and Yadav, M.K. 2008. Effect of phosphorus and biofertilizer on growth and nutrient uptake of long duration pigeon pea ( <i>Cajanus cajan L.</i> ) under rainfed condition. <i>Journal of Food Legume</i> , 21 (1): 46-48.	4.3	
6.	<b>Sen, A.</b> (2008). O-tillage in rice-wheat cropping system. <i>Everyman's</i> . XLII (6): 324-328.		
7.	Meena, R.N., <b>Singh, S.P.</b> and Khangarot, S.S (2008). Yield performance of chickpea ( <i>Cicer arietinum</i> ) under various row ratios and nitrogen levels in intercropping with Indian mustard. <i>Environment &amp; Ecology</i> 26 (1): 463-464.	2.1	
8.	Bargali, S.S., <b>Singh, S.P.</b> , Khangarot, S.S and Kolhe, S.S. (2008). Forestry plantation on rice bunds: farmer's perceptions and technology adoption. <i>International Rice Research Notes</i> 40-41.	<5	
9.	<b>Singh, S.P.</b> ; Patel, J.R.; Shrivastava, S.K. and Bargali, S.S. 2008. Rice production constraints in durg district of Chhattisgarh plains. <i>Journal of Maharashtra Agricultural Universities</i> 33(1):111-113.	<5	
10.	Srivastava, V.K.; Kumar, V.; <b>Singh, S.P.</b> and Ram, U.S. 2008. Effect of various fertility levels and organic manures on yield and nutrient uptake of hybrid rice and its residual effect on wheat. <i>Environment &amp; Ecology</i> 26(4): 1477-1480.	2.1	
11.	Singh, R.N.; Ram, V.; <b>Singh, S.P.</b> ; Singh, M.K. and Srivastava, V.K. 2008. Effect of integrated us of FYM, nitrogen and sulfur on yield nutrient uptake and economics of winter maize ( <i>Zea mays</i> ). <i>Environment &amp; Ecology</i> 26(4B): 2025-2027.	2.1	

12	Singh S B, <b>Verma S K</b> , Singh O N, Sharma R and Sharama U C. 2008. Effect of fertility levels, PSB and vermicompost on root nodules, translocation index and nutrients uptake of bold seeded lentil ( <i>Lens culinaris Medic.</i> ) under rainfed condition. <i>International Journal of Tropical Agriculture</i> <b>26</b> (1-2):185-188.		
13.	Singh G, <b>Verma S K</b> , Singh S B, Kumar D, Sharma R and Sharma U C. 2008. Influence of combined use of organic and inorganic sources of nutrient on production, nutrients uptake and its influence on soil fertility status under Rice-wheat cropping system. <i>International Journal of Tropical Agriculture</i> <b>26</b> (1-2):185-188.		
14.	Kumar, Navanit; Sinha, U.P.; <b>Prasad, S.K.</b> and Umesh, U.N. (2008). Quality constraint of sugarcane ( <i>Saccharum officinarum L.</i> ) as influenced by phosphorus and sulphur nutrition. <i>Environment &amp; Ecology</i> 26 (2): 687-690.	2.1	
15.	<b>Prasad, S.K.</b> ; Kumar, R.; Das, S.N. and Kumar, S. (2008). Response of water deficit and nitrogen levels on growth, yield attributes and yields of rice ( <i>Oryza sativa L.</i> ) <i>Environment &amp; Ecology</i> 26 (1A): 394-396.	2.1	
16.	Ravi Kant Singh, <b>J.S. Bohra</b> , V.K. srivastava and R.P. Singh (2008). Effect of diversification of Rice-wheat system on Weed Dynamics in rice. <i>Indian Journal of Weed Science</i> . 40(3&4): 128-131.	2.9	
17.	Sangatam K.S., <b>M.K. Singh</b> and P.Ahmed 2008 Economics of maize based intercropping system under foothill condition of Nagaland ; <i>Environment and Ecology</i> 26(4) : 1683-1684	2.1	
18.	Tabin, Dani and <b>M. K. Singh</b> .2008. Effect of common salt and 2,4-D Na Salt application on weed growth and yield of upland direct seeded rice, <i>Oryza</i> 45(4):296-299.		
19.	<b>Singh, M. K.</b> and Saini S. S. (2008) Planting date, mulch, and herbicide rate effects on the growth, yield, and physicochemical properties of menthol mint ( <i>Mentha arvensis</i> ). <i>Weed Technology</i> 22:691-698 [Impact factor- 0.87]	7.4	
20.	<b>Verma S K</b> , Singh S B, Rai O P, Sharma R and Singh Ghanshyam. 2008. Effect of cultivars and herbicides on yield and nutrient uptake by weed and wheat ( <i>Triticum aestivum L.</i> ) under zero-tillage system. <i>Indian Journal of Agricultural Sciences</i> <b>78</b> (11):985-989.	6.6	
21.	<b>Verma S K</b> , Singh S B, Rai O P and Singh, Ghanshyam. 2008. Effect of mulching and irrigation on weeds and yield of summer greengram [ <i>Vigna radiata</i> (L.) R. Wilczek] in saline soil. <i>Indian Journal of Agricultural Sciences</i> <b>78</b> (12):1082-85.	6.6	
22.	Babu S, Yadav G S, <b>Verma S K</b> and Singh R P. 2008. Efficacy of herbicides on weeds and yield of transplanted rice ( <i>Oryza sativa L.</i> ). <i>Indian Journal of Weed Science</i> 40(3&4):196-198.	2.9	
23.	Babu S, Yadav G S, <b>Verma S K</b> and Singh R P. 2009. Effect of anilofos formulations on nutrient uptake by transplanted rice ( <i>Oryza sativa L.</i> ) and associated weeds. <i>International Journal of Tropical Agriculture</i> <b>27</b> (1&2): 25-28		
24.	Ansari M A, <b>Verma S K</b> , Sharma R, Sharma U C, Gitender Kumar and Singh S B. 2009. Wild canary grass as influenced by IWM in wheat. <i>Pesticide Research Journal</i> . 20 (2A):46-49.	4.3	
25.	Ansari M A, <b>Verma S K</b> , Sharma R, Sharma U C, Gitender Kumar and Singh S B. 2009. Wild canary grass as influenced by IWM in wheat. <i>Pesticide Research Journal</i> . 20 (2A):46-49.	4.3	
26.	Ravi Kant Singh, <b>J.S. Bohra</b> , Yogeshwar Singhand Y. Singh (2009). Performance of rice in different crop sequences under irrigated Ecosystem of	2.1	

	Varanasi. <i>Environment &amp; Ecology</i> 27(4B): 1985-1989, 2009.		
27.	Singh R K, <b>Verma S K</b> , Sharma R and Singh S B. 2009. Bio-efficacy and selectivity of sulfosulfuron and metribuzin before and after irrigation in wheat ( <i>Triticum aestivum</i> L.) under zero-tillage system. <i>Indian Journal of Agricultural Sciences</i> 79(9):735-39	6.6	
28.	Singh, U.P., <b>Singh Y.</b> , Norboo T & Singh R.K. (2009). Nursery management for Boro rice. <i>Oryza</i> 46(1) : 80-81	<5	
29.	Singh U.P., <b>Singh Y</b> (2009). Effect of seedling age and number on yield of Boro rice . <i>Oryza</i> 46 (2) : 156-157	<5	
30.	Singh UP, <b>Singh Y</b> , Kumar Virendra and Ladha JK. 2009. Evaluation and promotion of resource conserving tillage and crop establishment technique in the rice-wheat system of eastern India. In: Ladha JK. Singh Yadvinder, Erenstein O, Hardly B, editors. Integrated crop and resource management in rice-wheat system of south Asia . International Rice Research Institute, Los Banos (Philippines), p 151-176.		
31.	<b>Verma S K</b> , Bikramaditya, Siya Ram, Singh S B, Yadav A S, Digvijay Kumar, Meena H P, Roopkishore and Meena B P. 2009. Crop diversification for higher productivity and profitability in Indian perspectives: A review. <i>International Journal of Tropical Agriculture</i> 27(3&4):477-491.		
32.	Singh, M.K.; Ram Naresh Singh and S.P.Singh (2009). Effect of integrated nutrient management on growth, yield and yield attributes of baby corn ( <i>Zea mays</i> L.). <i>Veg. Sci.</i> 36(1): 77-79.	3.7	
33.	Singh, R.K.; Verma, S.K.; Sharma, R. and Singh, S.B. 2009. Bio-efficacy and Selectivity of sulfosulfuron and metribuzin before and after first irrigation in wheat under zero-tillage. <i>Indian Journal of Agricultural Sciences</i> ; 63(09): 735-739.	6.6	
34.	Bazaya, B.R.; Avijit Sen and V.K. Srivastava (2009). Planting methods and nitrogen effects on crop yield and soil quality under direct seeded rice in the Indo-gangetic plains of Eastern India. <i>Soil and Tillage research</i> 105 (2009):27-32.	7.7	
35.	<b>Srivastava, V.K.</b> , Govind Sharma, Avijit Sen, J.S. Bohra, R.N. Singh and Singh, S.P. (2009): Effect of magnesium and Boron under different Nitrogen levels on yield and quality of Hybrid Rice ( <i>Oryza sativa</i> L.) <i>Environment &amp; Ecology</i> 27(2A): 911-915.	2.1	
36.	D.K.Singh; <b>J.K.Singh</b> ; and Lal Singh (2009). Real time nitrogen management for higher N-use efficiency in transplanted rice ( <i>Oryza sativa</i> ) under temperate Kashmir conditions. <i>The Indian Journal of Agricultural Sciences</i> 79(10):772-775.	6.6	
37.	Singh, Lal; <b>Singh, J.K.</b> ; Chand, Lekh and Hasan, Badrul (2009). Productivity, economics and competitive indices of lentil ( <i>Lens culinaris</i> ) based intercropping systems in Kashmir valley. <i>Indian Journal of Agronomy</i> 54(3): 291-295.	5.0	
38.	<b>Singh, J.K.</b> ; Khanday, B.A. and Singh, S.R. (2009). Response of soybean ( <i>Glycine max</i> ) to planting geometry and phosphorus application under rainfed conditions of temperate Kashmir. <i>Journal of Food Legumes (Formerly Indian Journal of pulses Research)</i> 22(3): 181-184.	4.3	
39.	Singh, S.R.; Singh, Ummed and <b>Singh, J.K.</b> (2009). Effect of bioinoculants and FYM on growth, yield and quality of soybean ( <i>Glycine max</i> ) under rainfed conditions of Kashmir valley. <i>Annals of Agricultural Research</i> 30(3&4):87-90.	2.9	
40.	Kumar, Santosh; Verma, S.K., Singh, T.K. and Singh, ShyamBeer (2009). Effect of nitrogen and sulphur on growth, yield and nutrient uptake by	6.6	

	Indian Mustard ( <i>Brassica Juncea</i> ) under rainfed condition. <i>Indian J. Of Agric Sciences</i> 79 (8): 648-650. August 2009.		
41.	Yadav, M.K. and <b>Singh, R.S.</b> 2009. Effect of nitrogen levels and weed management practices pigeonpea ( <i>Cajanus cajan</i> L.) and rice ( <i>Oryza sativa</i> L.) intercropping system under ridge-furrow planting system. <i>Indian Journals of Agricultural Sciences</i> , 79 (4): 268-272.	6.6	
42.	Balai, S.R.; <b>Singh, S.R.</b> and Yadav, M.K. 2009. Effect of intercropping system and fertility levels on productivity of ridge planted pigeonpea. <i>Environment and Ecology</i> , 27 (1): 8-19.	2.1	
43.	Srivastava, V.K.; Sharma, G.; Sen. A.; Bohra, J.S.; Singh, R.N. and <b>Singh, S.P.</b> 2009. Effect of magnesium and boron under different nitrogen levels on yield and quality of hybrid rice ( <i>Oryza sativa</i> L.). <i>Environment &amp; Ecology</i> 27 (2A): 911-915.	2.1	
44.	Singh, M.K.; Singh, R.N. and <b>Singh, S.P.</b> 2009. Effect of integrated nutrient management on growth, yield and yield attributes of baby corn ( <i>Zea mays</i> ). <i>Vegetable Science</i> 36 (1):77-79.	3.7	
45.	Bazaya, B.R.; <b>Sen, A</b> and Srivastava, V.K. 2009. Planting methods and nitrogen effects on crop yield and soil quality under direct seeded rice in the Indo-Gangetic plains of eastern India. <i>Soil and Tillage Research</i> . 105: 27-32.		
46.	Srivastava, V.K.; Sharma, G.; <b>Sen, A.</b> ; Bohra, J.S.; Singh, R.N. and Singh S.P. 2009. Effect of magnesium and boron under different nitrogen levels on yield and quality of hybrid rice ( <i>Oryza sativa</i> L.). <i>Environment and Ecology</i> . 27(2A): 911-915.	2.1	
47.	Singh, M.K.; R.N.Singh, S.P.Singh, M.K.Yadav and V.K.Singh (2010). Integrated nutrient management for yield, quality, economics and nutrient uptake of baby corn ( <i>Zea mays</i> L.). <i>Indian J Agron</i> . 55(2): 1-5.	5.0	
48.	Kumar, S.; Singh, Tarkeshwar; Meena, R.N., Shekhawat, B.S. and Singh, Y. 2010. Effect of Nitrogen and sulphure application on Growth and yield of Indian Mustard Brassica Juneak, zerm and coss. Under rainfed condition in in Eastern U.P.		
49.	Singh, Yogeshwar; Singh, Tarkeshwar; Singh, U.N. and Rajput, P.K. 2010. Effect of nutrient management on yield, quality and economics of irrigated Indian mustard ( <i>Brassica Juncea</i> ) <i>Indian J Agric. Sciences</i> 80(8): 691-694 Aug. 2010.	6.6	
50.	Santosh Kumar, Tarkeshwar Singh <b>R. N. Meena</b> , B. S. Shekhawat, Y. Singh(2010) : Effect of Nitrogen and Sulphur Application on Growth and Yield of Indian Mustard ( <i>Brassica juncea</i> L.) under Rainfed Condition in Eastern U.P. <i>Environment and Ecology</i> <b>28</b> (2B): 1267-1269.	2.1	
51.	Singh, U.P., <b>Singh, Yashwant</b> , Malik, R.K., and Gupta, Raj K. (2010). Impact of conservation agriculture based resource conservation technologies on productivity and profitability of wheat in Eastern U.P. In: National Symposium on Integrated weed Management in the Era of Climate Change, <i>Indian Society of weed Sciences</i> , NASC, New Delhi, pp.19.		
52.	Shekhawat B.S., Singh Yogeshwar, Singh, S.P , Meena R.N. , <b>Singh Y</b> , & Singh K (2010). Utilization of industrial waste and farm wastes with minerals & bio-activators for sustained rice productivity in Eastern Uttar Pradesh . <i>Indian J. Fert.</i> 6(10) 36-40.	3.8	
53.	Singh, R.K. , <b>Singh Y</b> , Singh, A.K. , Kumar R & Singh V.K. (2010) Productivity and economics of mustard ( <i>Brassica juncea</i> ) varieties as influenced by different fertility levels under late sown condition . <i>Ind. J. Soil conservation</i> 38(2) : 121-124	4.6	

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94.	Divya Pandey, Madhoolika Agrawal and <b>Jitendra Singh Bohra</b> (2012). Greenhouse gas emissions from rice crop with different tillage permutations in rice- wheat system. <i>Agriculture, Ecosystem and Environment</i> 159: 133-144	7.8	
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96.	Mirjha Panch Ram and <b>Prasad Saroj Kumar</b> (2012). Studies on weed management in kharif mungbean ( <i>Vigna radiate</i> (L). Wilczek). National Seminar on Indian Agriculture: Preparedness for Climate Change, March 24-25, 2012 New Delhi. Pp 112-113.		
97	<b>Verma S K</b> and Idnani L K. 2012. Most remunerative irrigation and nitrogen management practice for potato - maize cropping system. <i>Journal of Pusa Agriculture Science (Published)</i>	6.6	

\* **Monographs**

1. Singh, T.K., M.K.Singh., S.R.Singh and K.singh.2009. A practical manual on agricultural meteorology. Department of agronomy. Institute of agricultural Sciences, BHU., Varanasi (Two editions)
2. Singh, M.K., R.P.Singh, R.K.Singh and O.N.Singh.2010. A practical manual on weed management, Department of agronomy. Institute of agricultural Sciences, BHU., Varanasi

\* **Chapters in Books**

1. T.Singh, **M.K.Singh** and S.R.Singh.2008. Climatic characterization a necessity for scientific crop production and crop planning in dryland agriculture – a case study of varanasi region. *Climate change and Food security* edited by M.Dutta, N.P.Singh and Das.chaudhary, New Delhi publishing agency, New Delhi-110088 pp.129-147.
2. Kalyan Singh, J.S. Bohra, Yogeshwar Singh and Rajput Pankaj Kumar (2010). Integrated agronomic management for sustainability. In: **Stable Food Production and Sustainable Agriculture: A Challenge Ahead in 21<sup>st</sup> Century**. Edt. R.S. Sengar and A.K.Sharma. Studium Press (India) Pvt. Ltd. Pp. 1-27.

\* Edited Books

\* Books with ISBN with details of publishers

\* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Citation Index – range / average

\* SNIP

\* SJR

\* Impact Factor – range / average

\* h-index

23. Details of patents and income generated: **Nil**
24. Areas of consultancy and income generated : **Nil**
25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad  
: **Prof. Ramesh Kumar Singh (Cornell University,USA)**
26. Faculty serving in
- National committees: **Councilor, Indian Society of Agronomy, Prof. Ram Kumar Singh. Expert Member ASRB, Prof. Kalyan Singh**
  - International committees: **Nil**
  - Editorial Boards: **Member Indian Journal of Agronomy Prof. Ram Pratap Singh.**
  - any other (please specify): **Referee Soil and Tillage Research, Prof. Avijit Sen.**
27. Faculty recharging strategies: **Teachers are encourage to participate in Refresher/ Orientation course (UGC), Summer/Winter School (ICAR), Training Programs, Short Courses, Work Shop, Seminar/Symposium organized by various National and International institutions.**
28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: **100%**
  - percentage of students doing projects in collaboration with other universities / industry / institute: **30%**
29. Awards / recognitions received at the national and international level by
- Faculty**
    - 2007 Fellow ISA Indian Society of Agronomy (Dr. R. P. Singh)
    - 2007 Best Paper award Indian Journal of Agronomy52(1):11-15, Indian Society of Agronomy, (Dr.K.Singh, Dr.J.S.Bohra et al.)
    - 2008 Fellow of Indian Society of pulses research and development, Indian Society of pulses research and development (Dr. R.S.Singh)
    - Member of monitoring team to observe the trials of AICRP conducted at different centers during *Kharif*. DRR, Hyderabad (Dr.V.K.Srivastava)
    - Member Research advisory Committee, PDFSR, Modipuram (Prof. R.P.Singh)
    - Expert Member, ASRB, New Delhi (Prof. Kalyan Singh)
  - Doctoral / post doctoral fellows: **Nil**
  - Students : **Nil**

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

- ICAR Sponsored Winter School on Integrated Farming System Options for Vindhyan Region of eastern Uttar Pradesh, 02.12.2008 to 22.12.2008.
- Training Programme on Market- Led Extension, 25.08.2008 to 29.08.2008. Organized by MANAGE & Department of Agronomy.
- Fertilizer orientation program for students 19.01.2011 to 20.01.2011 Organized by FAI & Department of Agronomy (Mr. Ramesh Kumar Singh stood first in quiz competition)

31. Code of ethics for research followed by the departments: **As per guidelines and norms of UGC, ICAR and other funding agencies.**

32. Student profile course-wise:(From 2008-09 to 2012-13)

Name of the Course (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG		161	15	79.12	100
Ph.D		22	8	NA	NA

33. Diversity of students

Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Ph.D Agronomy	23.33	26.66	38.33	3.33
M.Sc Agronomy	12.17	29.56	26.95	6.08
Agro forestry	0.86	35.65	39.13	Nil

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

**ASRB-NET-100%**

35. Student progression

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	N.A
PG to Ph.D.	13
Ph.D. to Post-Doctoral	N.A
Employed	
• Campus selection	30%
• Other than campus recruitment	70%
Entrepreneurs	

36. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
of the same university	<b>17</b>
from other universities within the State	04
from universities from other States	05
from universities outside the country	Nil

37. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: **03 (Ph.D)**

38. Present details of infrastructural facilities with regard to

- a) Library: **No**
- b) Internet facilities for staff and students: **100%**
- c) Total number of class rooms: **03**
- d) Class rooms with ICT facility: **100%**
- e) Students' laboratories: **02**
- f) Research laboratories: **01**

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host university: **NAIP**
  - Mr. Pankaj Kumar Mishra
  - Mr. Shobhit Singh

b) from other universities

40. Number of post graduate students getting financial assistance from the university. **100% at Ph.D level and two ICAR JRF at M.Sc.(Ag) level.**

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. **Yes, the course curriculum is first introduced in board of studies meeting, followed by approval through faculty and academic council of the university.**

42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, content creation and incorporation.
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? No.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? Yes, Refinement and up gradation of existing post.

43. List the distinguished alumni of the department (maximum 10)

- Dr. N.P.Singh, Joint Director, I.C.A.R. Research Complex for NEH Region, Tripura Centre, Lembucherra-799210, Tripura (West).

- Dr. A.K. Singh, Zonal Coordinator, Zone-II ICAR Bihar Bhumi Complex Block G.B., Salt lake city, Sector-III, Kolkata-97
- Dr. Gopal Chaudhary, IFFCO, Bihar
- Dr. K.D. Singh, Ex-Director, C.T.R.I. Raja Munde, A.P.
- Dr. B.Gopal Reddy, Professor (Agronomy), Seed monitoring cell, NSP, Acharya N.G. Ranga Agril. University, Hyderabad-500030
- Dr. Pradhakar Rao, Acharya N.G. Ranga Agril. University, Hyderabad
- Dr. Ripu daman Singh, Reliance Industries Limited, New Delhi.
- Dr. B. Joseph, Principal Scientist (Agronomy). Senior staff quart no. 4, EE1, ANGRAO, Rajendranagar, Hyderabad.
- Dr Prashanta C. Bhowmik, Plant and Soil Sciences, Stock bridge, Hall, Universtiy of Massachusetts, Amherst, MA, USA.
- Dr. Ghanshyam Singh, Prof. Deptt. of Agronomy, NDVAT, Kumar Ganj. Faizabad

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- Dr. Raj Prasad Delivered lecture on “Development of bioherbicide” Ex-Senior Scientist Pacific forestry centre, Victoria Poritish Columbia, Canada.
  - Dr. C P S Yadav, Vice Chancellor Rajasthan Agricultural University. Dated:
  - Dharam Singh, MD cum secretary of Indian Medicinal plants marketing dederation. Dated:
  - Dr. N.P. Singh, Deliverd lecture on Agriculture in Goa on 13/04/2012 at 12.00.
45. List the teaching methods adopted by the faculty for different programmes. **ICT, LCD projector, Multimedia, field demonstration and visit to farmers field, NGO, Agro-based Industries etc.**
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? **Regular monitoring and assessment.**
47. Highlight the participation of students and faculty in extension activities. **Kisan mela, farmers training program, front line demonstration.**
48. Give details of “beyond syllabus scholarly activities” of the department. **Students are encourage to participate in debate and quiz competition, group discussion, essay writing, extension activities etc.**
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. **Yes by ICAR & UGC, AICRP on Dry land Agriculture has been recognized as Centre of Excellence and Department of Agronomy has been granted UGC -SAP/CAS in the year 2012.**

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- AICRPDA designated as centre of advance studies by ICAR
- Linkages with IRRI (Phillipines), CIMMYT (Mexico) and Rice-wheat consortium for R&D on Conservation Agriculture based RCTs
- Development of 0.4 ha and 1.0 ha IFS model for irrigated conditions of Eastern U.P.
- Experiential learning courses on IFS, Water management and seed production technology

51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

**STRENGTHS:**

- Well qualified and experienced human resource.
- Technical expertise in Dry land agriculture, Farming system research, Conservation agriculture based resource observation technologies, nutrient and weed management.
- Awarded UGC-SAP (DRS) on in providing water productivity (Since Sep. 2012).
- Recognized as a partner institute with CIMMYT and IRRI for collaborative research on conservation agriculture and submergence rice.
- AICRPDA- Varanasi recognized as centre of excellence by ICAR.

**WEAKNESSES:**

- Shortage of space and building.
- Lack of sufficient funds for quality research
- Lack of advanced laboratory and equipments to keep pace with international research.
- Meagre trained technical staff for handling equipments
- Lack of research/demonstrative blocks (site) for capacity building in water management.

**OPPORTUNITIES:**

- Capacity building for human resource development
- Development of appropriate agro-technology for different agro-ecological situations
- Promotion of farmer's participatory research for testing and refinement of technologies.
- Diffusion of viable technologies for enhancing productivity and income of the farming communities leading to livelihood upliftment.
- Contingent crop planning under aberrant weather conditions.

**CHALLENGES:**

- Conservation of resources
- Assessment and standardization of water quality for agricultural use
- Climate change resilient agronomic management for sustainable crop productivity
- Capacity building for improving water productivity
- Farming system model development for different farming communities

52. Future plans of the department.

- Human resource capacity building for improving water productivity to sustain production potentiality and livelihood security
- Efficient resource management in rain fed cropping system
- Conservation agriculture for improving RUE and climate modulation for sustainable production
- Integrated farming system / ALUS for carbon sequestration and income enhancement
- Organic farming for sustainable development
- Agro techniques for submergence-prone rice ecosystem