Complete	Curriculum	Vitae
Complete	Curriculum	vilae

Prof. P.V. Vara Prasad

Updated: January 2018

P. V. Vara Prasad

Director, Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification (SIIL) University Distinguished Professor, Crop Ecophysiology and Farming Systems (Agronomy Department) 108 Waters Hall, 1603 Old Claflin Place Kansas State University, Manhattan, Kansas 66506, USA. Tel: + 1 (785) 532 3746 (office); + 1 (785) 341 2840 (cell) E-mail: <u>vara@ksu.edu</u>; Skype: varakstate; Web: <u>www.ksu.edu/siil</u> Twitter: <u>@SIIL_KSU</u>; Facebook: <u>SIILKSU</u>; Instagram: <u>@SIIL_KSU</u> Google Scholar: <u>View Profile</u>; Research Gate: <u>View Profile</u> Education:

I. Education:	
July 1999	PhD (Agriculture): Crop Physiology Department of Agriculture, The University of Reading, Reading, UK.
Nov. 1993	MSc (Agriculture): Agronomy: First Class with a Gold Medal Andhra Pradesh Agricultural University (APAU), Hyderabad, India.
July 1991	BSc (Agriculture): First Class Andhra Pradesh Agricultural University (APAU), Hyderabad, India.

II. Employment and Professional Experience:

July 2016 to present	University Distinguished Professor, Crop Ecophysiology and Farming Systems
Oct. 2014 to present	Director, Feed the Future Innovation Lab for Sustainable Intensification
July 2013 to Jun. 2016	Professor, Crop Ecophysiology
July 2009 to Jun. 2016	Director, Great Plains Sorghum Improvement and Utilization Center
July 2009 to Jun. 2013	Associate Professor, Crop Ecophysiology
Aug. 2005 to Jun. 2009	Assistant Professor, Crop Ecophysiology
	Agronomy Department, Kansas State University, Manhattan, KS, USA.

Research, Leadership and Management: Conducting interdisciplinary research, knowledge sharing, and capacity building activities on sustainable intensification for improving food and nutritional security of smallholder farmers in Asia and Africa. Providing leadership and managing all activities of the USAID Feed the Future Innovation Lab for Collaborative Research on Sustainable Intensification (SIIL).

Research and Teaching Activities: Understanding crop responses to abiotic (water, temperature, nutrient, and global change factors) and biotic stresses, and changes in genetics and crop management practices. Main emphases are on understanding principles of yield formation and improving knowledge on responses of various physiological pathways and processes at the cellular, whole-plant, and canopy levels. Teaching activities include graduate-level courses in crop physiology and in crop ecology.

Jan. 2000 to July 2005 Post-Doctoral Research Associate, Agronomy Department, University of Florida, Gainesville, FL, USA. (Advisor: K.J. Boote)

Research Activities: Quantifying impacts of climate change factors (high temperature and elevated carbon dioxide) on physiological, growth, and yield processes of grain crops. Using and testing crop growth models to simulate the effects of climate change, disease incidence, fertilizer management, and improved crop management practices.

Nov. 1993 to Dec. 1995 Research Associate, Department of Agronomy, APAU, Hyderabad, Andhra Pradesh, India. (Advisor: V. Satyanarayana, APAU)

Research Activities: Conducting field experiments designed to maximise yields in rice-peanut crop sequences through efficient use of resources. Designing and conducting field experiments to study the effects of abiotic stresses (drought and nutrient deficiencies); efficient use of inputs; cropping systems; integrated nutrient management; and integrated weed management.

American Association for the Advancement of Science (AAAS).

Crop Science Society of America (CSSA).

American Society of Agronomy (ASA).

III. Fellowships:

Elected Fellow (2016) Elected Fellow (2015) Elected Fellow (2014)

IV. Scholarships and Awards:

Irvin E. Youngberg Award (2017) Higuchi Research Achievement Award, University of Kansas. Martin & Ruth Massengale Lectureship (2017) Crop Science Society of America. FSLI – Fellow Cohort 13 (2017 – 2018) Food Systems Leadership Institute. Gamma Sigma Delta, The Honor Society of Agriculture, KSU. Distinguished Faculty Award (2017) Outstanding Scientist Award (2017) Sigma Xi, The Scientific Research Society, KSU. Outstanding Faculty Award (2016) Dr. Ron and Rae Iman Award, KSU. IMRF Excellence Award (2016) International Multidisciplinary Research Foundation. Outstanding Associate Editor (2016) Crop Science, Crop Science Society of America. Distinguished Graduate Faculty (2015) Commerce Bank and W.T. Kemper Foundation Award, KSU. Excellence in Teaching, College of Agriculture, KSU. Graduate Teaching Award (2015) LEAD 21 - Class X (2015) Leadership for the 21st Century, Land Grant Universities. International Educator Award (2013) Office of International Programs, KSU. Outstanding Agricultural Scientist (2013) Association of Agricultural Scientists of Indian Origin (USA) Outstanding Research Award (2012) Gamma Sigma Delta, The Honor Society of Agriculture, KSU. President (2010 - 2012) Association of Agricultural Scientists of Indian Origin. Early Career Award (2009) Gamma Sigma Delta, The Honor Society of Agriculture, KSU. Young Scientist Award (2006) Association of Agricultural Scientists of Indian Origin, USA. Arthur Hosier Award (1998) Travel Award, The University of Reading, United Kingdom. Fully funded competitive scholarship for PhD studies, offered at Felix Scholarship (1996 – 1999) the University of Reading (6 students selected from India). ICAR – Scholarship (1995) Research Scholarship, Indian Council of Agricultural Research. NET Certificate (1995) National Eligibility Test, Certified Agronomist/Teacher, ICAR. Potash and Phosphate Institute of Canada - Gold Medal for Best PPIC Gold Medal (1994) MSc research at Andhra Pradesh Agricultural University, India. ICRISAT Scholarship (1991 - 1993) Scholarship for MSc (Ag) from International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India. Government Scholarship (1991) Government of Andhra Pradesh for MSc (Ag) ICAR – Merit Scholarship (1987) Indian Council of Agricultural Research (ICAR) for BSc (Ag).

V. Professional Memberships:

American Society of Agronomy (Since 1998); Crop Science Society of America (Since 2000); Soil Science Society of America (Since 2000); American Association for the Advancement of Science (Since 2011); Gamma Sigma Delta (Since 2006); Sigma Xi (Since 2009); International Society of Agricultural Meteorology (Life Member); Society for Millets Research (Life Member); World Association of Soil and Water Conservation (Life Member); Association of Agricultural Scientists of Indian Origin (Life Member).

VI. Editing and Reviewing of International Journals and Reviewing Grant Proposals:

Associate Editor (2009 – present)	Agronomy Journal
Associate Editor (2011 – present)	Journal of Crop Improvement
Associate Editor (2016 – present)	International Journal of Agricultural Sustainability
Associate Editor (2016 – present)	Frontiers in Plant Science – Abiotic Stress
Editorial Board: (2009 – present)	African Journal of Crop Science
Editorial Board: (2006 – present)	African Journal of Agricultural Research
Editorial Board (2014 – present)	Journal of Agronomy and Crop Science
Associate Editor (2009 – 2016)	Crop Science

Manuscript Reviewer: Reviewed >400 manuscripts for >75 different international peer-reviewed journals. Selected list of international peer-reviewed journals is given below:

Advances in Agronomy; African Journal of Agricultural Research; African Journal of Biotechnology; Agricultural and Forest Meteorology; Agriculture Ecosystems and Environment; Agronomy Journal; American Journal of Botany; American Journal of Horticultural Science; Annals of Botany; Australian Experimental Agriculture; Australian Journal of Agricultural Research; Biological Letters; Biologia Plantarum; Brazilian Journal of Plant Physiology; Carbohydrate Research; Crop Science; Current Opinion in Plant Biology; Communication in Biometry and Crop Science (CBCS); European Journal of Agronomy; Euphytica; Experimental and Environmental Botany; Field Crops Research; Functional Plant Biology; Global Change Biology; Indian Journal of Agronomy; Indian Journal of Plant Physiology; Journal of Plant Research; Indian Journal of Agricultural Sciences; International Journal of Plant Science; Journal of Plant Research; Indian Journal of Agricultural Meteorology; Journal of Agricultural Science; Journal of Agronomy and Crop Science; Journal of Crop Improvement; Journal of Crop Production; Journal of Experimental Botany; Journal of New Seeds; Journal of Plant Nutrition; Nature (Climate Change); New Phytologist; Physiologia Plantarum; Planta; Plant and Soil; Plant Biology; Plant Breeding; Plant Cell and Environment; Plant Physiology; Plant Science; World Journal of Agricultural Sciences; and more.

Manuscripts were reviewed for the following institutions: United States Department of Agriculture – Agriculture Research Service in Manhattan, Kansas; Gainesville, Florida; Bushland, Texas; Beltsville, Maryland; Fort Collins, Colorado; Athens, Georgia; Kansas State University; Mississippi State University; University of Florida.

Grant Reviewer: Reviewed >100 proposals for >10 different national and international funding agencies, including:

United States Department of Agriculture (USDA).

National Institute of Food and Agriculture, USDA – USA.

National Science Foundation – USA.

United States Agency for International Development (USAID) – USA.

Bill and Melinda Gates Foundation – USA.

McKnight Foundation – USA.

National Science Foundation – Chile.

US – Israel, Binational Agricultural Research and Development Fund.

UK – Biotechnology and Biological Sciences Research Council (BBSRC).

National Science Foundation – Republic of Georgia.

Indian Council for Agricultural Research – India.

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VII. Committees / Professional Services:

National and International Organizations

Crop Science Society of America (CSSA) / American Society of Agronomy (ASA) / USDA

1.	Chair – Sustainable Intensification Community of ASA	2018
2.	Chair Elect – Sustainable Intensification Community of ASA	2017
3.	Past Chair – Crop Physiology (C-2) Division of CSSA	2016
4.	Chair – Crop Physiology (C-2) Division of CSSA	2015
5.	Chair – Nomination Committee for C-2 Division Officers	2015
6.	Member – Nomination Committee for C-2 Division	2015 – 2017
7.	Member – Nomination for President Elect Committee	2015
8.	Chair Elect – Crop Physiology Division	2014
9.	Chair – Martin & Ruth Massengale Lectureship – CSSA	2014
10.	Member – Diversity in Agronomy, Crops and Soils	2006 – 2009
11.	Member – Poster / Oral Student Presentation Awards	2008; 2009; 2010; 2013
12.	Session Chair – Crop Physiology	2007 – 2014
13.	Session Chair – Sustainable Agriculture	2012
14.	Member – National Committee USDA – Photosynthesis	2006 – present
As	sociation of Agricultural Scientists of Indian Origin	
1.	Member – Advisory Board	2013 – 2014
2.	Past President	2013
2	Drasidant	2010 2012

President
 Member – Nomination Committee
 Member – Awards Committee
 2005 – 2007; 2009 – 2013

Other Universities and International Organizations

1.	Doctoral Thesis Evaluator – University of Sydney	2017
2.	Doctoral Thesis Evaluator – University of Queensland	2012, 2014
3.	Doctoral Thesis Evaluator – Bhahayddin Zakaria University	2010, 2012
4.	Doctoral Thesis Evaluator – University of Faisalabad	2010, 2011
5.	Doctoral Thesis Evaluator – Sindh Agricultural University	2011
6.	Doctoral Thesis Evaluator – Andhra University	2010
7.	Doctoral Thesis Evaluator – Gomal University	2009
8.	Doctoral Thesis Evaluator – Osmania University	2009
9.	Member – International Society of Agricultural Meteorology	2005 – 2007
10.	Member – Guide for Agricultural Meteorology Program	2007 – 2009

Kansas State University

1.	Crop Production – Search Committee	2012
2.	Cropping Systems – Search Committee	2012
3.	Sorghum Geneticist – Search Committee	2012
4.	Plant Physiologist (USDA) – Search Committee	2011
5.	Sorghum Breeder – Search Committee	2010
6.	Weed Physiologist – Search Committee	2009
7.	Sorghum Breeder – Search Committee	2007
8.	Sorghum Geneticist – Search Committee	2005
9.	Promotion and Tenure Committee	2012 – 2015
•••	Promotion and Tenure Committee Faculty Mentoring Committee	2012 – 2015 2009 – 2015
10		
10 11	. Faculty Mentoring Committee	2009 – 2015
10 11 12	. Faculty Mentoring Committee . Computer Network and Web Advisory Committee	2009 – 2015 2009 – 2012
10 11 12 13	 Faculty Mentoring Committee Computer Network and Web Advisory Committee Agronomy Seminar Committee 	2009 – 2015 2009 – 2012 2005 – 2012
10 11 12 13 14	 Faculty Mentoring Committee Computer Network and Web Advisory Committee Agronomy Seminar Committee Kids Field Day Committee 	2009 - 2015 2009 - 2012 2005 - 2012 2005 - 2012

College of Agriculture / Kansas State University

1.	Member – Distinguished Graduate Faculty Award Comm.	2016, 2017
2.	Member – International Educator Award Committee	2014, 2015, 2016, 2017
3.	Member – Graduate Council	2013, 2014, 2015
4.	Member – Graduate Student Committee	2013, 2014, 2015
5.	Member – Executive Committee - Sigma Xi	2013, 2014, 2015
6.	Member – Graduate Student Award Committee	2014
7.	Member – African Agricultural Forum (Symposium)	2010

VIII. Teaching/Graduate Student Mentoring and Training: 2006 through 2014

Courses Taught: AGRON 840, Crop Physiology (3 credits);		
	AGRON 950, Advanced Crop Ecology (3 credits);	
	AGRON 600, Problem in Crop Science (variable credits);	
	AGRON 960, Topics in Crop Physiology and Ecology (variable credits).	

Teaching Evaluation Scores: Scores in parentheses are out of a maximum of 5.0

Crop Physiology:

Teaching Effectiveness: Amount Learned: 2007 (4.7); 2009 (4.4); 2011 (4.7); 2013 (4.8) 2007 (4.5); 2009 (4.3); 2011 (4.4); 2013 (4.5)

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Advanced Crop Ecology:	Teaching Effectiveness:	2008 (4.5); 2010 (4.8); 201	12 (4.8); 2014 (5.0)

Amount Learned:

2008 (4.8); 2010 (4.8); 2012 (4.8); 2014 (5.0) 2008 (4.8); 2010 (5.0); 2012 (4.7); 2014 (5.0)

Graduate Students and Research Scholars: Mentoring, Advising and Training

Total: >100 [>60 Graduate Students (Major Advisor or Committee Member) and >40 Research Scholars]

Major Advisor:

Current Postdoctoral Associates / Research Associates / Visiting Scientists:

- 1. Dr. Maduraimuthu Djanaguiraman, Crop Physiologist, Kansas State University, USA.
- 2. Dr. Araya Berhe, Crop Simulation Modeling, Kansas State University, USA.
- 3. Dr. Zach Stewart, Farming Systems, Kansas State University, USA.
- 4. Dr. Jintian Song, Agricultural Economist, Kansas State University, USA.

Cu	rren	t PhD Students: Countr	y of Origin;	Degree; and	Gradua	ting Year
	1.	Ms. Regina Enninful	(Ghana)	PhD (Agronomy)	2018	
Cu	rren	t MS Students:				
	2.	Ms. Erin Thornburgh	(USA)	MS (Agronomy)	2018	
	3.	Mr. Austin Hughes	(USA)	MS (Agronomy)	2018	
Gra	adua	ated PhD Students: Cou	untry of Origin;	Degree;	Year;	Current Position
	1.	Dr. Huan Wang	(China)	PhD (Agronomy)	2017	Postdoc (KSU)
	2.	Dr. Jason Waite	(USA)	PhD (Agronomy)	2016	Agronomist, USDA
	3.	Dr. Kyle Shroyer	(USA)	PhD (Agronomy)	2016	Agronomist, Industry
	4.	Dr. Amal Ehtaiwesh	(Libya)	PhD (Agronomy)	2016	Faculty, University
	5.	Dr. George Mahama	(Ghana)	PhD (Agronomy)	2015	Scientist, Research
	6.	Dr. Sruthi Narayanan	(India)	PhD (Agronomy)	2015	Faculty, University
	7.	Dr. George Paul	(India)	PhD (Agronomy)	2013	Scientist, University
	8.	Dr. S. Subramanian	(India)	PhD (Agronomy)	2013	Research Scholar
	9.	Dr. Alassan Maiga	(Mali)	PhD (Agronomy)	2012	Scientist, Research
	10.	Dr. Rachel Opole	(Kenya)	PhD (Agronomy)	2012	Scientist, Research
	11.	Dr. Raymond Mutava	(Kenya)	PhD (Agronomy)	2012	Scientist, University
	12.	Dr. Troy Ocheltree	(USA)	PhD (Agronomy)	2012	Faculty, University
	13.	Dr. Gautam Pradhan	(Nepal)	PhD (Agronomy)	2011	Faculty, University
Graduated MS Students: Country of Origin;		ntry of Origin;	Degree;	Year;	Current Position	
	14.	Ms. Matti Kuykendall	(USA)	MS (Agronomy)	2015	Research Scholar
	15.	Mr. Sory Diallo	(Mali)	MS (Agronomy)	2012	Scientist, Research
	16.	Mr. George Mahama	(Ghana)	MS (Agronomy)	2012	Scientist, Research
	17.	Ms. Sruthi Narayanan	(India)	MS (Agronomy)	2011	Doctoral Student
	18.	Mr. Raymond Mutava	(Kenya)	MS (Agronomy)	2008	Scientist, University

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19. Mr. Grant Groen	(USA)	MS (Agronomy)	2008	Scientist, Industry	
20. Ms. Sudha Pisipati	(India)	MS (Agronomy)	2008	Scientist, Industry	

Postdoctoral / Visiting Scholars and Scientists and their Current Positions:

- 1. Dr. Ai-Qing Sun, College of Agronomy, Shandong Agricultural University (Visiting Scholar; 1 year), Shandong, China. (Co-Advisor Krishna Jagadish).
- 2. Dr. John Sunoj, Crop Physiologist, Indian Institute of Horticulture Research (2 years), India.
- 3. Dr. Hanafey F. Maswada, Assistant Professor, Faculty of Agriculture, Tanta University (Visiting Scholar: 6 months), Tanta, Egypt. (Co-Advisor Krishna Jagadish).
- 4. Dr. Shahniyar Bayramov, National Academy of Sciences of Azerbaijan (Fulbright Scholar, 6 months); Head of Laboratory, Department of Fundamental Problems Biological Productivity, Institute of Botany, Baku, Azerbaijan. (Co-Advisor Mithila Jugulam).
- 5. Ms. Vinutha Kanaganahalli, International Crop Research Institute for the Semi-Arid Tropics, India (60 days), Research Scholar, Sorghum Breeding, Hyderabad, India.
- 6. Winthrop Professor Zed Rengel, University of Western Australia (Senior Fulbright Scholar; 6 months), Professor, University of Western Australia, Perth, Australia.
- 7. Ms. Cherryl Quinones, International Rice Research Institute (6 months); Crop Physiologist, International Rice Research Institute, Manila, Philippines.
- 8. Ms. Laavanya Rayaprolu, International Crop Research Institute for the Semi-Arid Tropics, India (60 days), Sorghum Breeding, Hyderabad, India.
- 9. Dr. Utharasu Subramaniam, Tamil Nadu Agricultural University, India (1 year). Assistant Professor, Tamil Nadu Agricultural University, India.
- 10. Ms. Vimala Kanagarethinam, Crop Physiology, India (1 year). Scientist, India.
- 11. Dr. Rakesh Pandey, Indian Agricultural Research Institute, India (3 months). Senior Scientist Wheat Physiology, Indian Agricultural Research Institute, New Delhi, India.
- 12. Dr. Parvez Sofi, Sher-e-Kashmir University, Jammu, India (Borlaug Fellow, 3 months). Associate Professor – Bean Breeding, Sher-e-Kashmir University, Jammu, India.
- 13. Dr. Arti Bhatia, Indian Agricultural Research Institute, India (15 days); Principal Scientist Agricultural Climatology, Indian Agricultural Research Institute, New Delhi, India.
- 14. Dr. Sanjana Reddy, Directorate of Sorghum Research (15 days); Senior Scientist, Sorghum Breeding, Directorate of Sorghum Research, Hyderabad, India.
- 15. Dr. Tara Satyavathi, Indian Agricultural Research Institute, India (3 months); Principal Scientist, Millet Breeding, Indian Agricultural Research Institute, New Delhi, India.
- 16. Dr. Jyoti Kumari, National Bureau of Plant Genetic Resources, India (3 months); Senior Scientist – Wheat Breeding, National Bureau of Plant Genetic Resources, New Delhi, India.
- 17. Dr. Le Loan: (3 months, Borlaug Fellow). Lecturer, Nong Lam University, Vietnam.
- 18. Dr. Leena Diwakar: K-State (6 months); Researcher, Kansas State University, USA.
- 19. Dr. Satheesh Subramaniam, Tamil Nadu Agricultural University, India (1 year). Assistant Professor, University.
- 20. Dr. Sarma Mallabothala: Harvest Plus, Canada (6 months); Private Industry, Canada.
- 21. Dr. Roger Kanton: Savanna Agricultural Research Institute, Ghana (30 days); Associate Director, Savanna Agricultural Research Institute, Ghana.
- 22. Dr. Rachel Opole: Kenyan Agricultural Research Institute (Borlaug Fellow); Agronomist, Kenyan Agricultural Research Institute, Kenya.
- 23. Dr. Jianming Fu: USDA ARS, Manhattan, USA (6 months); Plant Physiologist, USDA-ARS.

- 24. Mr. Amit Pradhan: Research Scholar, Mata Vaishnav Devi University, India (1 year); Scholar, Private Company, India.
- 25. Dr. Savanam S. Rao: Directorate of Sorghum Research, Hyderabad, India (4 months); Principal Scientist, Crop Physiology, Directorate of Sorghum Research, Hyderabad, India.
- 26. Dr. Gautam P. Pradhan: Crop Physiologist, Nepal (1 year); Agronomist, North Dakota State University, USA.
- 27. Mr. Mohammed Mustafa, Kansas State University (1 year), Scholar, Private Company.
- 28. Mr. Abdoul Wahab Toure: Institute of Economic and Rural Development, Mali (2 months); Agronomist, Institute of Economics and Rural Development, Mali.
- 29. Ms. Eva Erdayani: Indonesian Institute of Sciences, Indonesia (3 months, Borlaug Fellow); Doctoral Student, Washington State University, USA.
- Dr. K.B. Hebbar: Indian Council of Agricultural Research, India (3 months, Borlaug Fellow); Principal Scientist and Head, Division of Plant Physiology, Central Plantation Crops Research Institute, Indian Council of Agricultural Research, India.
- 31. Dr. K. Kannan: Indian Council of Agricultural Research, India (3 months, Borlaug Fellow); Principal Scientist, Soil and Water Management, Indian Council of Agricultural Research, India.
- 32. Dr. Sarvana Pandian: Tamil Nadu Agricultural University, India (1 month); Professor, Tamil Nadu Agricultural University, India.
- 33. Dr. Mamadou Doumbia: Institute of Economic and Rural Development, Mali (15 days); Retired -Director, Soil Testing Laboratory, Institute of Economics and Rural Development, Mali.
- 34. Dr. Jesse Naab: Savanna Agricultural Research Institute, Ghana (30 days); Scientist, WASCAL, Burkina Faso.
- 35. Dr. Sundeep Kumar: Banaras Hindu University, India (6 months); Principal Scientist, National Bureau of Plant Genetic Resources, New Delhi, India.
- 36. Dr. C. Udayasoorian: Tamil Nadu Agricultural University, India (2 months); Retired Dean, Post Graduate Studies, Tamil Nadu Agricultural University, India.
- 37. Dr. James Pitchai: Tamil Nadu Agricultural University, India (2 months); Retired Vice Chancellor, Bharathiar University, India.
- 38. Dr. Rishi Pal Singh: Birsa Agricultural University, India (20 days); Director, Seed Science Division, Bisra Agricultural University, India.
- 39. Ms. Sudha Pisipati, Kansas State University (6 months); Research Scholar, Private Company.
- 40. Mr. A. Masterodominca: University of Sao Paulo, Brazil (6 months); Scholar, Private Company.

Member of Advisory Committee:

Current PhD Graduate Students:

1.	Mr. Santiago Tamagno	(Brazil)	PhD (Agronomy)	Graduating 2020
2.	Mr. Nithin Shetty	(India)	PhD (Agronomy)	Graduating 2020
3.	Mr. Balaji Pandian	(India)	PhD (Agronomy)	Graduating 2020
4.	Mr. Anuj Chiluwal	(India)	PhD (Agronomy)	Graduating 2019
5.	Mr. Edwin Ackley	(Ghana)	PhD (Agronomy)	Graduating 2019
6.	Mr. Brent Christenson	(USA)	PhD (Agronomy)	Graduating 2018
7.	Mr. Guillermo Balboa	(Argentina)	PhD (Agronomy)	Graduating 2018

MS (Agronomy)

Graduating 2019

Current MS Graduate Students:

- 8. Mr. Osler Ortez-Amador (Argentina)
- 9. Mr. Javier Fernandez (Argentina) MS (Agronomy) Graduating 2019

Graduated PhD Students:

1.	Dr. Abhishes Lamsal	(Nepal)	PhD (Agronomy)	Graduated 2017
2.	Dr. Sridevi Betha	(India)	PhD (Agronomy)	Graduated 2016
3.	Dr. Andrew Green	(USA)	PhD (Agronomy)	Graduated 2016
4.	Dr. Sarah Battenfield	(USA)	PhD (Agronomy)	Graduated 2016
5.	Dr. Iddrisu Yahaya	(Ghana)	PhD (Ag. Economics)	Graduated 2015
6.	Dr. Joshua Jennings	(USA)	PhD (Agronomy)	Graduated 2015
7.	Dr. Shyamal Talukder	(Bangladesh)	PhD (Agronomy)	Graduated 2013
8.	Dr. Sivakumar Sukuma	ran (India)	PhD (Agronomy)	Graduated 2012
9.	Dr. Mary Joi Abit	(Philippines)	PhD (Agronomy)	Graduated 2010
10.	Dr. Yared Assefa	(Ethiopia)	PhD (Agronomy)	Graduated 2010
11.	Dr. Jung Lee	(Korea)	PhD (Plant Pathology)	Graduated 2009
12.	Dr. John Frihauf	(USA)	PhD (Agronomy)	Graduated 2009
13.	Dr. Kent Martin	(USA)	PhD (Agronomy)	Graduated 2009

Graduated MS Students:

14. Ana Julia Azevedo		MS (Agronomy)	Graduated 2017
15. Mr. Jonathan Broeckelm	nan (USA)	MS (Agronomy)	Graduated 2016
16. Ms. Bailey McHenry	(USA)	MS (Agronomy)	Graduated 2016
17. Mr. Joseph Hong	(China)	MS (Plant Pathology)	Graduated 2016
18. Ms. Randi Clark	(USA)	MS (Agronomy)	Graduated 2016
19. Mr. Edwin Akley	(Ghana)	MS (Agronomy)	Graduated 2015
20. Mr. Devin Mangus	(USA)	MS (Ag. Bio. Engg)	Graduated 2015
21. Mr. Nathan Keep	(USA)	MS (Agronomy)	Graduated 2013
22. Mr. Bandigou Diawara	(Mali)	MS (Agronomy)	Graduated 2012
23. Mr. Hugo Remaury	(USA)	MS (Ag. Economics)	Graduated 2012
24. Mr. Frank Maulana	(Malawi)	MS (Agronomy)	Graduated 2011
25. Mr. David Cruz	(Columbia)	MS (Plant Pathology)	Graduated 2011
26. Ms. Sruthi Narayanan	(India)	MS (Agronomy)	Graduated 2011
27. Mr. Kyle Shroyer	(USA)	MS (Agronomy)	Graduated 2010
28. Mr. Kentaro Takamatsu	(Japan)	MS (Elect. Engg.)	Graduated 2009
29. Mr. Levi Walker	(USA)	MS (Agronomy)	Graduated 2009
30. Ms. Laurene Smith	(USA)	MS (Agronomy)	Graduated 2008
31. Mr. Michael Duff	(USA)	MS (Agronomy)	Graduated 2007
32. Mr. Chris Pachta	(USA)	MS (Agronomy)	Graduated 2007

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33. Mr. Souley Soumana	(Niger)	MS (Agronomy)	Graduated 2007
34. Mr. Phani Mallacheruvu	(India)	MS (Civil Engg)	Graduated 2007
35. Mr. Ganesh Nagisetti	(India)	MS (Civil Engg)	Graduated 2007
36. Mr. Corey Roozenboom	(USA)	MS (Agronomy)	Graduated 2006

IX. Research and Education Grants; and Gifts (Since 2006): ~ \$70 million

Secured <u>>\$ 62 million in grants</u> (>\$ 58 million <u>as Principal Investigator, PI</u>) and **\$ 8 million in donations**. *Number of Total Grants Funded:* >130 (>\$62 million). Complete list available at the end of this CV. *Number of Grants Funded as PI:* >90 (out of 105 total submitted as PI; ~85% success); >\$58 million.

Selected 10 Large Grants (>\$300,000) Funded from National and International Research Projects as PI.

- 1. **Prasad PVV**, Pierzynski GM, Lilja N. Sustainable Intensification Innovation Lab (SIIL). Feed the Future Collaborative Research on Sustainable Intensification. USAID. Amount: \$50,000,000; 2014 2019.
- 2. **Prasad PVV**, Jagadish SVK, Fritz AK, Mengel DB. Developing and enhancing heat tolerance in wheat using genomics, molecular and physiological tools. USAID. Amount: \$460,000; 2013 2017.
- 3. **Prasad PVV**. Improving barley and wheat germplasm for changing environments. USDA NIFA, \$730,000; 2010 2015.
- Prasad PVV, Staggenborg SA, Dalton TJ, Dhuyvetter K, Rice CW, Presley D, Garrett K, Jumpponen A, Selfa T, and Lilja N. Sustainable Agricultural and Natural Resource Management (SANREM) – Collaborative Research Support Program, USAID - SANREM, \$1,350,000; 2009 – 2015.
- 5. **Prasad, PVV**, Staggenborg SA, Minton E, Baltensperger D and Misra S. Great Plains Sorghum Improvement and Utilization Center (GPSIUC). USDA CSREES, \$930,668; 2010 2011.
- 6. **Prasad, PVV**, Staggenborg SA, Minton E, Baltensperger D and Misra S. Great Plains Sorghum Improvement and Utilization Center (GPSIUC). USDA CSREES, \$482,128; 2009 2010.
- Prasad PVV, Staggenborg SA and Mengel DB. Integrated soil, water and crop management for improving productivity in sorghum and millet based systems. International Sorghum, Millet and Other Grains (INTSORMIL) - Collaborative Research Support Program, USAID, \$348,500; 2007 – 2012.
- 8. **Prasad PVV** and Staggenborg SA. Integrated research in Mali Decrue sorghum; and integrated graduate training in Mali. USAID Mali Mission, \$723,420; 2008 2013.
- 9. **Prasad PVV**, Yu J, Roozeboom K, Tesso T and Vadlani P. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission, \$325,000; 2008 2014.
- 10. **Prasad PVV**, Schapaugh WT. Improving heat and drought tolerance in soybean. United Soybean Board, \$300,000; 2011 2014.

Gifts (Donation): \$8 million - Harold and Olympia Lonsinger Sustainability Research Farm (2017) – White Paper Authors: P.V.V. Prasad and G.M. Pierzynski (in collaboration with KSU Foundation and College of Agriculture).

X. Selected Research Accomplishments:

Main research accomplishments include (a) quantified impacts of abiotic stresses (particularly drought, high temperature stress, and elevated carbon dioxide) on grain crops (e.g., rice, wheat, sorghum, millets, soybean, dry bean, and peanut); (b) improved understanding of mechanisms associated with abiotic stress tolerance; (c) identified physiological tools to determine drought and high temperature tolerance; (d) screened germplasm collections for tolerance to drought and/or high temperature stress; and (e) developed and extended sustainable crop production practices for improving resource use efficiency and productivity of grain crops. More specific items are listed below:

Sorghum:

Knowledge: Characterized sorghum germplasm for traits related to drought and heat tolerance (Mutava et al. 2011. Field Crop Res. 123:10-18) and improved the understanding of the physiological basis of variation (Gholipoor et al. 2010. Field Crop Res. 119: 85-90; Ocheltree et al. 2014. Funct. Plant Biol. 41:25-36; Djanaguiraman et al. 2014. Environ. Exp. Bot. 100: 43-54; Riar et al. 2015. Environ. Exp. Bot. 115: 58-62; Prasad et al. 2015. Front. Plant Sci. 8: 820).

Impact/Outcome: Improved understanding of drought and heat stress and opportunities to breed for tolerance.

Wheat:

Knowledge: Identified genetic variability in wheat and wild species for high temperature stress and drought stress, identified tolerant sources and developed understanding of the mechanisms of tolerance (Pradhan et al., 2012. Crop Sci. 52:292-304; Funct. Plant Biol.39:51-59). Wheat lines with increased expression of EF-Tu protein showed higher temperature tolerance (Ristic et al. 2008. J. Plant Physiol. 165:192-202; Bukovnik et al. 2009. Funct. Plant Biol. 36:234-241; Ristic et al. 2009. J. Exp. Bot. 60: 4003-4014; Prasad et al. 2011. J. Agron. Crop Sci. 197: 430-441; Pradhan et al. 2012. Crop Sci. 52: 292-304; Pradhan et al. 2012. Func. Plant Biol. 39: 51-59; Kumar et al. 2012. Euphytica 186: 265-276; Prasad and Djanaguiraman 2014. Func. Plant Biol. 41: 1261-1269; Pradhan and Prasad 2015. PloS One 10: e0116620; Narayanan et al. 2015. J. Agron. Crop Sci. 201: 206-218; Narayanan et al. 2016a. Plant Cell Environ. 39: 608-617; Narayanan et al. 2016b. Plant Cell Environ. 39: 878-803).

Impact/Outcome: Identified opportunities for improving high temperature tolerance and gene transfer.

Soybean:

Knowledge: High temperature caused premature leaf senescence leading to decreased photosynthesis and seed mass (Djanaguiraman et al. 2010. Funct. Plant Biol. 37:1071-1084). High temperature stress caused oxidative damage, structural/anatomical changes to leaf anatomy and chloroplasts, leading to lower photosynthesis and pollen anatomy, contributing to lower pod set (Djanaguiraman et al. 2011. Exp. Environ. Bot. 70:51-57; Djanaguiraman et al. 2011. Crop Sci. 51:2125-2131; Djanaguiraman et al. 2013. Crop Sci. 53:1594-1604; Djanaguiraman et al. 2013. J. Agron. Crop Sci. 199:171-177; Keep et al. Crop Sci. 56: 122-131).

Impact/Outcome: Improved understanding of high temperature stress response.

High Temperature Tolerant Genotypes:

Knowledge: Identified genotypes that were tolerant to high temperature stress in groundnut (Craufurd et al. 2003. Field Crop Res.80:63-77; Kakani et al. 2002. Plant Cell Environ.25:1651-1661), rice (Prasad et al. 2006. Field Crop Res. 95:398-411), wheat (Ristic et al. 2008. J. Plant Physiol. 165:192-202), and sorghum (Djanaguiraman et al. 2014. Environ. Exp. Bot. 100:43-54).

Impact/Outcome: Identified genotypes can be used for breeding for high temperature tolerance.

Interactions of High Temperature and Carbon Dioxide:

Knowledge: Quantified season-long effects of high temperature stress at ambient and elevated carbon dioxide concentrations in dry bean (Prasad et al. 2002. Global Change Biol.8:710-721), peanut (Prasad et al. 2003. Global Change Biol. 9:1775-1778), and sorghum (Prasad et al. 2006. Agric. For. Meteorol. 139:237-251). Demonstrated that there are no beneficial effects of elevated carbon dioxide on reproductive processes and yield at high temperatures.

Impact/Outcome: Improved understanding of interactions and opportunities to refine response functions in crop simulation models.

Twelve Selected Papers (Original Research Articles) as First Author, Citations and Knowledge Gained:

 Prasad PVV, Boote KJ, Allen LH Jr., Sheehy JE, Thomas JMG. 2006. Species, ecotype and cultivar differences in spikelet fertility and harvest index of rice in response to high temperature stress. Field Crop Res. 95:398-411. (Times Cited: >525).

Knowledge: This was the first paper to compare various species of rice and show their relative tolerances to high temperature stress.

Prasad PVV, Boote KJ, Allen LH Jr, Thomas JMG. 2006. Adverse high temperature effects on pollen viability, seed-set, seed yield and harvest index of grain sorghum (*Sorghum bicolor* L.) are more severe at elevated carbon dioxide due to high tissue temperatures. Agric. For. Meteorol. 139:237-251. (Times Cited: >240).

Knowledge: This was the first paper looking at the responses of a short statured sorghum hybrid to season-long exposure to the interaction of high temperatures and elevated carbon dioxide.

 Prasad PVV, Boote KJ, Allen LH Jr., Thomas JMG. 2002. Effects of elevated temperature and carbon dioxide on seed-set and yield of kidney bean (*Phaseolus vulgaris* L.). Global Change Biol. 8:710-721. (Times Cited: >190).

Knowledge: This paper showed that elevated temperature decreased pollen viability, seed-set, and grain yield of dry beans under both ambient and elevated carbon dioxide levels.

4. **Prasad PVV**, Pisipati SR, Mutava RN, Tuinstra MR. 2008. Sensitivity of grain sorghum to high temperature stress during reproductive development. Crop Sci. 48:1911-1917. (Times Cited: >175).

Knowledge: This paper identified the most sensitive stages to high temperature stress in grain sorghum.

5. **Prasad PVV**, Craufurd PQ, Summerfield RJ. 1999. Fruit number in relation to pollen production and viability in groundnut exposed to short episodes of heat stress. Ann. Bot. 84:381-386. (Times Cited: >175).

Knowledge: This paper showed that there were strong negative relations between temperatures (day and/or night) and most reproductive traits (flower numbers, fruit-set, pollen production, and pollen viability).

 Prasad PVV, Boote KJ, Allen LH Jr., Thomas JMG. 2003. Super-optimal temperatures are detrimental to reproductive processes and yield of peanut under both ambient and elevated carbon dioxide. Global Change Biol. 9:1775-1787. (Times Citied: >145).

Knowledge: This paper showed that elevated temperature decreased pollen viability, seed-set, and grain yield of dry beans under both ambient and elevated carbon dioxide levels.

7. **Prasad PVV**, Pisipati SR, Ristic Z, Bukovnik U, Fritz AK. 2008. Impact of high nighttime temperature on growth and yield of spring wheat. Crop Sci. 48:2372-2380. (Times Cited: >130).

Knowledge: The paper quantified the impact of high nighttime temperature on spikelet fertility, grain number, grain weight, and grain yield.

 Prasad PVV, Craufurd PQ, Summerfield RJ, Wheeler TR. 2000. Effects of short episodes of high temperature on flower production and seed set of peanut (*Arachis hypogaea* L.). J. Exp. Bot. 51:777-781. (Times Cited: >125).

Knowledge: This paper was the first to demonstrate that high temperatures during the first half of the day were more critical for fruit-set in groundnut.

9. **Prasad PVV**, Craufurd PQ, Summerfield RJ. 1999. Sensitivity of peanut to timing of heat stress during reproductive development. Crop Sci. 39:1352-1357. (Times Cited: >120).

Knowledge: This paper showed that successful fruit-set in peanut was mostly determined by the temperature stress during floral development.

10. **Prasad PVV**, Craufurd PQ, Kakani VG, Wheeler TR, Boote KJ. 2001. Influence of high temperature during pre- and post-anthesis stages of floral development on fruit-set and pollen germination in peanut. Aust. J. Plant Physiol. 28:233-240. (Times Cited: >100).

Knowledge: This paper showed that floral buds of peanut were most sensitive to high temperature at stages coinciding with micro-sporogenesis and pollination and fertilization.

11. **Prasad PVV**, Craufurd PQ, Summerfield RJ. 2000. Effect of high air and soil temperature on dry matter production, pod yield and yield component of groundnut. Plant Soil 222: 231-239. (Times Cited: >80)

Knowledge: This paper was the first to demonstrate that high air and soil temperature were mostly additive.

 Prasad PVV, Satyanarayana V, Murthy VRK, Boote KJ. 2002. Maximizing yields in rice-groundnut cropping sequence through integrated nutrient management. Field Crops Res. 75:9-21. (Times Cited: >45).

Knowledge: This paper documented the value of incorporating green manure crop in enhancing the yield of rice-groundnut cropping sequence.

Scholarship in Research and Extension in an International Context of Food Security:

Africa: Conducted active research and education programs in several countries in West Africa (Ghana, Mali, Niger, and Mali) and East Africa (Kenya). These projects were funded through USAID Collaborative Research Support Programs (now called Feed the Future Innovation Labs). These programs are focused on development, testing, and transfer of technologies that improve profitability of smallholder farmers through adoption of improved and sustainable crop, soil, and water management practices. Activities were focused on cereal (sorghum, millet, and maize) and legume (cowpea, peanut, and soybean) based cropping systems and use of sustainable agricultural practices (cover crops, crop rotation, tillage, integrated nutrient management, and residue management). Research has shown that use of tied ridges, contour ridges, and water conservation practices can improve yield by 100%. Micro-dose fertilizer increased grain yield by >70%. Crop rotations increased productivity by >30%. Minimum tillage increased net profits by >20%. Use of integrated fertilizer practices helped enhanced productivity of major cereals crops. Application of phosphorus fertilizer increased productivity of cereal and legume crops by >50%. Overall, the package of practices developed through this research increased productivity of smallholder farmers in selected villages by >50%. These research results were featured in regional news media outlets (including television and newspapers). Through a separate project funded through the USAID - Mali Mission, research was conducted on decrue sorghum (sorghum grown in receding water in lakes and rivers) in northern Mali, which is one of the poorest and most food insecure regions of the world. This crop was very important for the food security of this region. The project was implemented in remote areas of Timbuktu, Kidal, Gao, and Mopti. Research was done in farmers' fields. This was the most comprehensive research and technology transfer project conducted on decrue sorghum in the Sahel. Sorghum genotypes were identified that were suited for this region, and a package of practices was developed to enhance yield and minimize the impact of pests and diseases. Improved practices were able to double the grain yield of decrue sorghum in northern Mali.

<u>Asia:</u> Conducted active research programs in India funded through USAID (2014-2018) on developing climate resilient wheat genotypes with heat and drought tolerance. This project was implemented in collaboration with Washington State University and several partner institutions in India. The goal of this project was to develop and release high temperature tolerant wheat genotypes for Southeast Asia. In addition, three USAID - CGIAR and US Universities linkage grants were obtained to improve climate resiliency of millets, sorghum, and rice. Two from ICRISAT (International Crop Research Institute for the Semi-Arid Tropics, India) on aspects of high temperature and drought tolerance in pearl millet and salinity tolerance in sorghum. A third from IRRI (International Rice Research Institute, Philippines) was to understand mechanisms associated with high temperature tolerance in rice. These projects involved scientist and student exchanges

In 2014, received one of the largest single research grants (\$50 million) from USAID to Kansas State University on Sustainable Intensification (Feed the Future Sustainable Intensification Innovation Lab). This grant is focused on research and capacity building activities in Africa (Senegal, Burkina Faso, Tanzania, and Ethiopia) and Asia (Bangladesh and Cambodia) that deal with aspects related to sustainable intensification and food and nutrition security of smallholder farmers. Established Center of Excellence for Sustainable Agricultural Intensification and Nutrition at the Royal University of Agriculture in Cambodia with support from USAID-Cambodia Mission.

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XI. Professional Achievements:

Specific Research Achievements:

- Established an internationally reputed crop ecophysiology research and teaching program with state of the art facilities (growth chambers, rain-out shelters, and heat tents), and equipment for screening genotypes for abiotic stress tolerance and understanding mechanisms associated with tolerance.
- Quantified responses to interaction of climate change factors (temperature, water, and carbon dioxide) in various crops (dry beans, peanut, sorghum, and rice).
- Quantified impact of high temperature stress on various biochemical, physiological, and yield processes in various grain crops. Some of these responses are being used to improve crop simulation models.
- Determined sensitive stages of crop development to high temperature stress in various crops (peanut, sorghum, wheat, millet, and soybean).
- Screened several germplasm collections of wheat, sorghum, millet, soybean, and peanut for high temperature and drought tolerance and identified tolerant lines.
- Improved understanding of mechanisms associated with tolerance or susceptibility to abiotic stress (high temperature or drought) in various grain crops (wheat, rice, sorghum, pearl millet, finger millet, soybean, dry bean, peanut, and canola).
- Developed high-throughput physiological and biochemical tools to screen genotypes for drought and high temperature tolerance in grain crops under field and controlled environment conditions.
- Research featured in several national and international media out (newspapers, radio, and television).
- Conducted high impact research. Research articles have been cited >7,000 times, with h-index of >43, i-10 index of >105; both of these indices reveal impact of research publications.
- Secured >\$62 million (about \$58 million as PI) to support research and teaching programs from local, regional, national, and international agencies (e.g. commodity commissions, USDA, and USAID).
- Principal investigator of the largest federal competitive research grant that KSU ever received (\$50 M).
- Instrumental in securing \$8 million worth in-kind donation to establish Harold and Olympia Lonsinger Sustainability Research Farm at KSU. One of the largest donation to College of Agriculture at KSU.
- Highly successful in grant funding. Submitted >160 proposals of which >145 were funded (>90 as PI; and >85% success rate of funding).
- Published >149 peer-reviewed articles in highly reputed journals and >31 book chapters.
- Published >230 abstracts and gave >150 presentations at international meetings (including >70 invited talks) in multiple countries (e.g. US, Ghana, Mali, Niger, Egypt, Morocco, Kenya, Ethiopia, El-Salvador, Mexico, Indonesia, Philippines, Vietnam, India, Australia, South Africa, China, Hong Kong, UK, Netherland, Germany, Italy and more).
- Trained >40 visiting scientists from >15 different countries.
- Recruited >25 graduate students as major advisor with full funding to support their research programs.
- Graduated 19 students (12 PhD and 7 MS) as major advisor and >34 as committee member.
- Received several awards from university, professional societies, including Fellow of the American Society of Agronomy (ASA), Fellow of the Crop Science Society of America (CSSA), and Fellow of the American Association for the Advancement of Science (AAAS).

Specific Teaching / Training Achievements:

- Developed and taught two graduate-level courses: Crop Physiology (AGRON 840) and Advanced Crop Ecology (AGRON 950).
- Average student teaching evaluations (TEVAL) of 4.7 out of 5.0 over the last nine years at KSU.

- Obtained perfect 5 out of 5 TEVAL in all categories for teaching AGRON 950 during spring 2014.
- Integrated research into teaching and developed discussion-based course (AGRON 950).
- Major Professor for a total of 23 graduate students (9 MS and 14 PhD).
- Committee member for a total of 42 graduate students (24 MS and 18 PhD).
- Trained >40 scholars from 15 countries across the world, who hold prominent positions.
- Mentored students to achieve career goals and achievements. All graduated students are employed in academia, national research organizations, or private industry (based on their preference).
- Several graduate students (R. Mutava, G. Pradhan, G. Paul, G. Mahama, S. Narayanan, H. Wang, and M. Kuykendall) received awards for their research, oral or poster presentations (at regional, national, and international meetings/conferences/workshops, including the CSSA and ASA).
- Research of several graduate students was highlighted and featured in the CSSA International News Letter (for example G. Pradhan, S. Narayanan, and G. Mahama).
- Received international educator award from KSU; excellence in graduate teaching award from the College of Agriculture at KSU; and Distinguished Graduate Faculty Award (Commerce Bank) from KSU.

Specific Service and Leadership Achievements:

- Served as chair and organized several symposiums at national and international conferences and workshops (e.g. ASA; CSSA; and USAID programs).
- Serving on editorial boards of 6 different international journals.
- Served as Director of Great Plains Sorghum Improvement and Utilization Center (2009 2016).
- Served at KSU in several Departmental, College and University Committees.
- Served as President of the Association of Agricultural Scientists of Indian Origin.
- Peer-reviewed >300 manuscripts for >50 different international journals.
- Reviewed >90 grant proposals for various national and international funding agencies.
- External evaluator for >10 doctoral dissertations from four different countries.
- Judge at various international conferences for awards to students and researchers.
- Competed LEAD-21 Class X program (Leadership Program for Land Grant Universities).

XII. Impact of Research:

In addition to the direct impact of the research on producers and researchers, research impact is often measured by the number of citations of research articles published by an author in databases.

 Google Scholar:
 Publications by author:
 >250
 Total number of citations:
 >7,000

 *h-index (Hirsch index):
 >43
 **i-10-index:
 >105

 *h-index is the largest number of papers that a scientist has that have received at least that number of citations. h-index is indicative researcher's productivity. **i-10-index is the number of publications with at least 10 citations.

For recent data, follow the website links below:

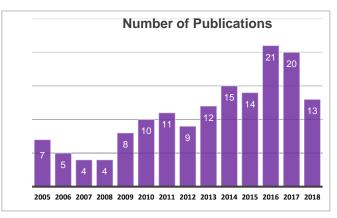
Google Scholar:	https://scholar.google.com.au/citations?user=AvfPGxgAAAAJ&hl
Research Gate:	https://www.researchgate.net/profile/P_V_Vara_Prasad
Researcher ID:	http://www.researcherid.com/rid/B-3835-2012
ORCID:	http://orcid.org/0000-0001-6632-3361

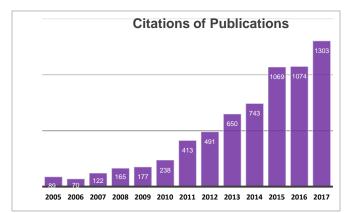
Complete Curriculum Vitae

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Number of publications (journal articles and chapters) and citations from January 2005 to December 2017.





XIII. Complete List of Publications:

Published: Journal Articles:>149; Chapters: >31; Abstracts:>230; Reports:>70; Presentations:>100 (Invited:>70)

Published Refereed Articles in International Journals (>149)

- 1. Djanaguiraman M, Belliraj N, Bossmann S, **Prasad PVV**. 2018. High temperature stress alleviation by selenium nanoparticles treatment in grain sorghum. ACS Omega (In Press).
- 2. Narayanan S, **Prasad PVV**, Welti R. 2018. Alterations in wheat pollen lipidome during high day and night temperature stress. Plant Cell and Environment (doi:10.1111/pce.13156).
- Schwalbert R, Amado TJC, Horbe TAN, Stefanello LO, Assefa Y, Prasad PVV, Rice, CW, Ciampitti IA. 2018. Corn yield response to planting density and nitrogen: spatial models and yield distribution. Agronomy Journal (doi:10.2134/agronj2017.07.0425).
- 4. Djanaguiraman M, Perumal R, Jagadish SVK, Ciampitti IA, Welti R, **Prasad PVV**. 2018. Sensitivity of sorghum pollen and pistil to high temperature stress. Plant Cell and Environment (doi:1111/pce.13089).
- Djanaguiraman M, Perumal R, Ciampitti IA, Gupta SK, Prasad PVV. 2018. Quantifying pearl millet response to high temperature stress: thresholds, sensitive stages, genetic variability and relative sensitivity of pollen and pistil. Plant Cell and Environment (doi:1111/pce.12931).
- Boote KJ, Prasad PVV, Allen LH Jr, Singh, P, Jones JW. 2018. Modeling sensitivity of grain yield to elevated temperature in the DSSAT crop models for peanut, soybean, dry bean, chickpea, sorghum and millet. European Journal of Agronomy (doi:10.10161/j.eja.2017.09.002).
- 7. Sun A, Somayananda I, Sunoj VSJ, Singh K, **Prasad PVV**, Gill K, Jagadish SVK. 2018. Heat stress during flowering affects time of day of flowering, seed-set and grain quality in spring wheat (*Triticum aestivum* L.). Crop Science 58: 380-392.
- Assefa Y, Prasad PVV, Foster C, Wright C, Young S, Bradley P, Stamm M, Ciampitti IA. 2018. Major management factors determining spring and winter canola yield in north America. Crop Science 58: 1-16.
- Guragain YN, Prasad PVV, Rao PS, Vadlani PV. 2017. Evaluation of brown midrib sorghum mutants as a potential feedstock for 2-3 butanediol biosynthesis. Applied Biochemistry and Biotechnology 183: 1093-1110.
- Sita K, Sehgal A, Hanumantharao B, Nair RM, Prasad PVV, Kumar S, Gaur PM, Farooq M, Siddique KHM, Varshney RK, Nayyar H. 2017. Food legumes and rising temperatures: effects, adaptive functional mechanisms specific to reproductive phase and strategies to improve heat tolerance. Frontiers in Plant Sciences 8: 1658.
- 11. Araya A, Kisekka I, Xin L, **Prasad PVV**, Gowda PH, Rice CW, Andales A. 2017. Evaluating the impact of climate change on irrigated maize production in Kansas. Climate Risk Management 17: 139-154.

- 12. Varela S, Assefa Y, **Prasad PVV**, Peralta NR, Griffin TR, Sharda A, Ferguson A, Ciampitti IA. 2017. Spatio-temporal evaluation of plant height in corn via unmaned aerial systems (UAS). Journal of Applied Remote Sensing 11: 03603-1-12.
- 13. Assefa Y, **Prasad PVV**, Carter P, Hinds M, Bhalla G, Schon R, Jeschke M, Paszkiewicz S, Ciampitti IA. 2017. A new insight into corn yield-trends from 1987 through 2015. Crop Science 57: 2799-2811.
- Naab JB, Mahama GY, Yahaya I, Prasad PVV. 2017. Conservation agriculture improves soil quality, crop yield and incomes of smallholder farmers in North Western Ghana. Frontiers in Plant Sciences 8: 996.
- Araya A, Kisekka I, Prasad PVV, Gowda PH. 2017. Evaluating optimum limited water management strategies for corn using crop simulation models. ASCE Irrigation and Drainage Engineering 143 (10): 04017041.
- Sunoj VSJ, Somayananda IM, Chiluwal A, Perumal R, Prasad PVV, Jagadish SVK. 2017. Resilience of pollen and post-flowering response in diverse sorghum genotypes exposed to heat stress under field conditions. Crop Science 57: 1658-1669.
- 17. Arshad MS, Farooq M, Ash F, Jagadish SVK, **Prasad PVV**, Siddique KHM. 2017. Thermal stress impacts reproductive development and grain yield in rice. Plant Physiology and Biochemistry 115: 57-72.
- 18. Kisekka I, Schlegal A, Ma L, Gowda PH, **Prasad PVV**. 2017. Optimizing preplant irrigation for maize under limited water in the High Plains. Agricultural Water Management 187: 154-163.
- Varanasi VK, Bayramov S, Prasad PVV, Jugulam M. 2017. Expression profiles of psbA, ALS, EPSPS and other chloroplastic genes in response to PSII-, ALS- and ESPS-inhibitor treatments in Kochia scoparia. American Journal of Plant Science 8: 451-470.
- 20. Min D, Guragain YN, **Prasad PVV**, Vadlani PV, Lee J. 2017. Effect of different genotypes of switchgrass as bioenergy crop on yield components and bioconversion potential. Journal of Sustainable Bioenergy Systems 7: 27-35.
- 21. Araya A, Kisekka I, **Prasad PVV**, Holman J, Foster AJ, Lollato R. 2017. Assessing wheat yield, biomass, and water productivity responses to growth stage based irrigation water allocation. Transactions of the ASABE (American Society of Agricultural and Biological Engineers) 60: 107-121.
- 22. Bandara YMAY, Weerasooriya DK, Tesso TT, **Prasad PVV**, Little CR. 2017. Stalk rot fungi affect grain yield components in an inoculation stage-specific manner. Crop Protection 94: 97-105.
- 23. Araya A, Kisekka I, Gowda PH, **Prasad PVV**. 2017. Evaluation of water-limited cropping systems in a semi-arid climate using DSSAT-CSM. Agricultural Systems 150: 86-98.
- 24. **Prasad PVV**, Bheemanahalli R, Jagadish SVK. 2017. Field crops and the fear of heat stress opportunities, challenges and future directions. Field Crops Research 200: 114-121.
- 25. Nusslein K, Dhankher OP, Xian B, Smith-Doerr L, Sacco T, Maathuis F, Pareek A, **Prasad PVV**, Botha A-M, Foyer CH, Kunert K, Cullis C, Dumont MG, Chen B, Lu L. 2016. Project management: Food security needs social science input. Nature 535: 37.
- 26. Liu B, Asseng S, Muller C, Ewert F, Elliott J, Lobell DB, Martre P, Ruane AC, Wallach D, Jones JW, Rosenzweig C, Aggarwal PK, Alderman PD, Anothai J, Basso B, Biernath C, Cammarano D, Challinor A, Deryng D, Sanctis GD, Doltra J, Fereres E, Folberth C, Carcia-Vila M, Gayler S, Hoogenboom G, Hunt LA, Izaurralde RC, Jabloun M, Jones CD, Kersebaum KC, Kimball BA, Koehler A-K, Kumar SN, Nendel C, O'Leary GJ, Olesen JE, Ottman MJ, Palosuo T, **Prasad PVV**, Priesack E, Pugh TAM, Reynolds MP, Rezaei EE, Rotter RP, Schmid E, Semenov MA, Shcherbak I, Stehfest E, Stockle CO, Startonovitch, Streck T, Supit I, Tao F, Thornburn P, Waha K, Wall GW, Wang E, White JW, Wolf J, Zhao Z, Zhu Y. 2016. Similar estimates of temperature impacts on global wheat yield by three independent methods. Nature Climate Change 6: 1130-1136.
- Assefa Y, Prasad PVV, Carter P, Hinds M, Bhalla G, Schon R, Jeschke M, Paszkiewicz, Ciampitti IA. 2016. Yield responses to planting density for US modern corn hybrids: a synthesis – analysis. Crop Science 56: 2802-2817.
- 28. Hebbar KB, Subramanian P, Sheena TL, Shwetha K, **Prasad PVV**. 2016. Chlorophyll and nitrogen determination in coconut using a non-destructive method. Journal of Plant Nutrition 39: 1610-1619.

- 29. Grogan SM, Anderson J, Baenziger P, Frels K, Guttieri M, Haley S, Kim, K, Liu S, McMaster G, Newell M, **Prasad PVV**, Reid S, Shroyer K, Zhang G, Akhunov E, Byrne P. 2016. Phenotypic plasticity of winter wheat heading date and grain yield across the U.S. Great Plains. Crop Science 56: 2223-2236.
- Jagadish SVK, Bahuguna RN, Djanaguiraman M, Gamuyao R, Prasad PVV, Craufurd PQ. 2016. Implications of high temperature and elevated CO₂ on flowering time in plants. Frontiers in Plant Science 7: 913.
- 31. Sukumaran S, Li X, Zhu C, Bai G, Perumal R, Tuinstra MR, **Prasad PVV**, Mitchell S, Tesso T, Yu J. 2016. QTL mapping for grain yield, flowering time, and stay-green traits in sorghum using genotyping-by-sequencing markers. Crop Science 56: 1429-1442.
- 32. Sunoj JVS, Shroyer KJ, Jagadish SVK, **Prasad PVV**. 2016. Diurnal temperature amplitude alters physiological and growth response of maize (*Zea mays* L.) during the vegetative stage. Experimental and Environmental Botany 130: 113-121.
- Narayanan S, Tamura P, Roth M, Prasad PVV, Welti R. 2016. Wheat leaf lipids during heat stress: I. High day and night temperatures results in major lipid alternations. Plant Cell and Environment 39: 787-803.
- 34. Reynolds MP, Quilligan E, Aggarwal PK, Bansal KC, Cavalieri AJ, Chapman SC, Chapotin SM, Datta SK, Duveiller E, Gill KS, Jagadish SVK, Joshi AK, Koehler A-K, Kosina P, Krishnan S, Lafittee R, Mahala RS, Muthurajan R, Paterson AH, Prasanna BM, Rakshit S, Rosegrant MW, Sharma I, Singh RP, Sivasankar S, Vadez V, Valluru R, **Prasad PVV**, Yadav OP. 2016. An integrated approach to maintain cereal productivity under climate change. Global Food Security 8: 9-18.
- 35. Ocheltree TW, Nippert JB, **Prasad PVV**. 2016. A safety vs. efficiency trade-off identified in the hydraulic pathway of grass leaves is decoupled from photosynthesis, stomatal conductance, and precipitation. New Phytologist 210: 97-107.
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- 188. Allen LH Jr., Boote KJ, Prasad PVV, Thomas JMG. 2006. Searching for seed yield tolerance of soybean cultivars to high temperatures. Annual Meeting of American Society of Agronomy, 12 16 November, Indianapolis, Indiana, USA.
- 189. Kakani VG, Boote KJ, Prasad PVV, Craufurd PQ, Wheeler TR, Rao RCN. 2006. Using CROPGRO to simulate impact of high temperature stress on peanut. *Annual Meeting of American Society of Agronomy*, 12 – 16 November, Indianapolis, Indiana, USA.
- 190. Rozenboom C, Fritz AK, Ristic Z, Prasad PVV. 2006. Transferring heat tolerance in common bread wheat: characterizing the response of heat stress among contrasting RILs. Annual Meeting of American Society of Agronomy, 12 – 16 November, Indianapolis, Indiana, USA.
- 191. Jain M, Funk A, Prasad PVV, Allen LH, Boote KJ, Chourey PS. 2006. Effects of elevated high temperature growth conditions on sugar-to-starch metabolism in developing microspores in sorghum [Sorghum bicolor L. (Moench)]. Annual Meeting of American Society of Plant Biology, 5 9 August, Boston, Massachusetts, USA.
- 192. Ristic Z, Momcilovic I, Fu J, Bukovnik U, Fritz AK, Baber MA, **Prasad PVV**. 2006. Heat tolerance and relative levels of chloroplast protein synthesis elongation factor EF-Tu in wheat under heat stress conditions. *Annual Meeting of American Society of Plant Biology*, 5 9 Aug., Boston, Massachusetts, USA.
- 193. Prasad PVV, Vu JCV, Boote KJ, Allen LH Jr. 2006. Impact of water and temperature stress at ambient and elevated carbon dioxide levels on leaf photosynthesis and dry matter production in sorghum. *Biological Systems Simulation Conference*, 11 – 13 April 2006, Fort Collins, Colorado, USA.
- 194. Prasad PVV, Vu JCV, Boote KJ, Allen LH Jr. 2005. Effects of elevated carbon dioxide and temperature on leaf gas exchange, photosynthetic enzyme activities and growth of grain sorghum. Annual Meeting of American Society of Agronomy, 6 – 10 November, Salt Lake City, Utah, USA.
- 195. Prasad PVV, Vu JCV, Boote KJ, Allen LH Jr. 2006. Impact of water and temperature stress at ambient and elevated carbon dioxide levels on leaf photosynthesis and dry matter production in sorghum. *Biological Systems Simulation Conference*, 11 – 13 April 2006, Fort Collins, Colorado, USA.
- 196. Naab JB, Prasad PVV, Boote KJ, Jones JW. 2005. Response of early and late maturity peanut cultivars to sowing densities and fungicide application in Ghana. *Annual Meeting of American Society of Agronomy*, 6 – 10 November, Salt Lake City, Utah, USA. Abstract No: 329a.
- 197. Prasad PVV, Vu JCV, Boote KJ, Allen LH Jr. 2005. Effects of elevated carbon dioxide and temperature on leaf gas exchange, photosynthetic enzyme activities and growth of grain sorghum. *Annual Meeting* of American Society of Agronomy, 6 – 10 November, Salt Lake City, Utah, USA. Abstract No: 241-6.
- 198. Boote KJ, **Prasad PVV**, Allen LH Jr. 2005. Testing elevated temperature responses of the Cropgro-Peanut model with data from sunlit controlled-environment chambers. *Annual Meeting of American Society of Agronomy*, 6 – 10 November, Salt Lake City, Utah, USA. Abstract No: 132-4.
- 199. Allen LH Jr, Boote KJ, Prasad PVV, Thomas JMG, Vu JCV. 2005. Hazards of temperature on food availability in changing environments (Hot-Face): global warming could cause failure of seed yields of major crops. Proceedings of The 7th International Carbon Dioxide Conference, 25 – 30 September 2005, Washington DC, USA.

- 200. **Prasad PVV**, Vu JCV, Boote KJ, Allen LH Jr. 2005. Enhancement in leaf photosynthesis and upregulation of Rubisco in the C₄ plant sorghum under elevated growth CO₂ and temperature occurs at early stages of leaf ontogeny. *American Society of Plant Biologists Annual Meeting*, 16 – 20 July 2005, Seattle, Washington, USA. Abstract No: 35.
- 201. Jain M, **Prasad PVV**, Allen LH Jr, Boote KJ, Chourey PS. 2005. Gene expression analyses of sucroseto-starch metabolism during micro-sporogenesis in sorghum grown under high temperature conditions. *American Society of Plant Biologists Annual Meeting*, 16 – 20 July 2005, Seattle, Washington, USA. Abstract No: 162.
- 202. Allen LH Jr, Boote KJ, **Prasad PVV**, Baker JT, Gesch RW, Snyder AM, Pan D, Thomas JMG. 2005. Food security and agriculture: Impact of elevated temperature and carbon dioxide on pollination and yield of globally important seed grain crops. *The 16 Global Warming and International Conference & Expo (GWXVI)*, 19 – 21 April, New York, USA.
- 203. **Prasad PVV**, Boote KJ, Allen LH Jr. 2004. Impact of elevated temperature and carbon dioxide enrichment on growth, reproductive processes and yield of grain sorghum. *Annual Meeting of American Society of Agronomy*, 31 October 04 November, Seattle, Washington, USA.
- 204. Naab JB, **Prasad PVV**, Boote KJ, Jones JW. 2004. Effects of fungicide and phosphorus application on peanut yields in on-station and on-farm trials in northern Ghana. *Annual Meeting of American Society of Agronomy*, 31 October 04 November, Seattle, Washington, USA.
- 205. Boote KJ, Allen LH Jr., **Prasad PVV**, Baker JT, Gesch RW, Snyder AM, Pan D, Thomas JMG. 2004. Elevated temperature and CO₂ impacts on pollination, reproductive growth and yield of several globally important crops. *International Symposium on Food Production and Environmental Conservation in the Face of Global Environmental Deterioration*, 07 – 11 Sep. 2004, Fukuoka, Japan.
- 206. **Prasad PVV**, Boote KJ, Allen LH Jr. 2004. Temperature sensitivity of pollen viability, seed-set and seed yield of grain-sorghum (*Sorghum bicolor* L.) is adversely affected by growth at elevated carbon dioxide. *American Society of Plant Biologists Annual Meeting*, 24 28 July 2004, Orlando, Florida, USA.
- 207. **Prasad PVV**, Boote KJ, Waliyar F, Craufurd PQ. 2004. A mechanistic approach to predict pre-harvest aflatoxin incidence in peanut using CROPGRO-peanut model. *Biological Systems Simulation Group Conference Annual Meeting*, 8 10 Mar. 2004. University of Florida, Gainesville, Florida, USA. p. 2-3.
- 208. Naab JB, Tsigbey F, **Prasad PVV**, Boote KJ, Bailey JE, Brandenberg RL. 2004. Quantifying yield losses caused by leafspot disease on peanut in Ghana: a crop modelling analysis. *Biological Systems Simulation Group Conference Annual Meeting*, 08 10 March 2004, University of Florida, Gainesville, Florida, USA. p. 56-57.
- 209. Adomou M, **Prasad PVV**, Boote KJ. 2004. CROPGRO-Peanut model a tool to simulate growth and yield losses due to foliar diseases on peanut in Benin. *Biological Systems Simulation Group Conference Annual Meeting*, 08 10 March 2004, University of Florida, Gainesville, Florida, USA. p. 63-64.
- Prasad PVV, Boote KJ, Allen LH Jr, Thomas JMG. 2003. Impact of elevated temperature and carbon dioxide on reproductive processes and yield of peanut. *Annual Meeting of American Society of Agronomy*, 2 – 6 November 2003, Denver, Colorado, USA.
- 211. Murthy VRK, **Prasad PVV**. 2003. Influence of tillage practices on seedling emergence of pigeon pea, soybean and castor. *Annual Meeting of American Society of Agronomy*, 2 6 November 2003, Denver, Colorado, USA.
- 212. Prasad PVV, Boote KJ, Thomas JMG, Allen LH Jr. 2003. Influence of soil temperatures on seedling emergence of peanut cultivars. *Proceedings of American Peanut Research and Educational Society Annual Meeting*, 07 – 11 July 2003, Clearwater, Florida, USA. Vol 35: 88.
- 213. Craufurd PQ, **Prasad PVV**, Kakani VG, Wheeler TR, Nigam SN. 2003. Heat tolerance in groundnut. *Proceedings of American Peanut Research and Educational Society Annual Meeting*, 07 – 11 July 2003, Clearwater, Florida, USA. Vol 35: 68-69.
- 214. Wheeler TR, Challinor A, **Prasad PVV**, Kakani VG, Craufurd PQ. 2003. Impact of change in mean temperature and variability on annual crops. *Promise Meeting on Monsoon Environments: Agricultural and Hydrological Impacts of Seasonal Variability and Climate Change*, 24 28 Mar 2003, International Center for Theoretical Physics, Italy.

- 215. Prasad PVV, Boote KJ, Allen LH Jr, Sheehy JE, Thomas JMG. 2002. Effect of elevated temperature and spikelet fertility and harvest index of rice genotypes. *Annual Meeting of American Society of Agronomy*, 10 – 14 November 2002, Indianapolis, USA.
- 216. Prasad PVV, Murthy VRK, Boote KJ, Jones JW. 2002. Simulating growth and yield of peanut under present and future climate in Andhra Pradesh, India. *Biological Systems Simulation Group Conference* / Workshop on Remote Sensing and Modelling Application in Natural Resource Management, 10 – 13 March 2002, Mississippi State University, Starkville, USA. Report. p. 30.
- 217. Thomas JMG, **Prasad PVV**, Boote KJ, Allen LH. 2002. Seed germination and seedling vigor of kidney bean seed produced under elevated temperature and CO₂. *Sixty Second Annual Meeting of Soil and Crop Science Society of Florida*, 22 24 May 2002, Clearwater Beach, Florida, USA.
- 218. Boote KJ, Beg-Susich DM, Bennett JM, **Prasad PVV**. 2002. Evaluating CERES-Maize model for ability to predict growth and nitrogen uptake response to N fertilization. *Sixty Second Annual Meeting of Soil and Crop Science Society of Florida*, 22 24 May 2002, Clearwater Beach, Florida, USA.
- 219. **Prasad PVV**, Boote KJ, Allen LH Jr, Vu JCV, Thomas JMG. 2001. Effects of elevated temperature and carbon dioxide on photosynthetic and reproductive processes of kidney bean. *Annual Meeting of American Society of Agronomy*, 20 25 October 2001, Charlotte, North Carolina, USA.
- 220. Adomou M, Detongnon J, Prasad PVV, Boote KJ. 2000. Simulating growth and yield of peanut in Benin as affected by planting date, cultivar and disease. *Annual Meeting of American Society of Agronomy*, 5 – 9 November 2000, Minneapolis, Minnesota, USA. *Abstracts*. p. 62.
- 221. **Prasad PVV**, Boote KJ, Craufurd, PQ, Kakani, VG. 2000. Impact of high temperature stress on reproductive development and yield of peanut. *Annual Meeting of American Society of Agronomy*, 5 9 November 2000, Minneapolis, Minnesota, USA. *Abstracts*. p. 124.
- 222. **Prasad PVV**, Craufurd PQ, Kakani VG, Wheeler TR. 2000. Effect of high air temperature on fruit-set in peanut. *3rd International Crop Science Congress*, 17 22 August 2000, Hamburg, Germany.
- 223. Craufurd PQ, **Prasad PVV**, Kakani, Wheeler TR 2000. Tolerance of high soil and air temperature in peanut. *3rd International Crop Science Congress*, 17 22 August 2000, Hamburg, Germany.
- 224. Kakani VG, **Prasad PVV**, Craufurd PQ, Wheeler TR, Summerfield RJ. 2000. Pollen responses to temperature in peanut. *3rd International Crop Science Congress*, 17 22 August 2000, Hamburg, Germany.
- 225. Prasad PVV, Craufurd PQ, Summerfield RJ, Wheeler TR. 1998. Sensitivity of fruit-set to heat stress in groundnuts (*Arachis hypogaea* L.). Annual Meeting of the Society of Experimental Biology, 22 27 March 1998, York, England. Journal of Experimental Botany 49: 30.
- 226. **Prasad PVV**, Craufurd, PQ, Summerfield RJ, Wheeler, TR. 1998. Effects of hot soil and air temperature on pod yield of groundnut. *Annual Meeting of American Society of Agronomy*, 18 22 October 1998, Baltimore, Maryland, USA. *Abstracts*, 75.
- 227. **Prasad PVV**, Craufurd, PQ, Summerfield RJ, Wheeler TR. 1998. Sensitivity of fruit-set to high temperature stress in groundnut. *Annual Meeting of American Society of Agronomy, Abstracts*, 18 22 October 1998, Baltimore, Maryland, USA. *Abstracts*, 291.
- 228. Prasad PVV, Craufurd PQ, Summerfield RJ, Wheeler TR. 1998. Effects of hot air and soil temperature on pod yield of groundnut. p. 65-66. In: Proceedings of First International Agronomy Congress, Environment and Food Security for 21st Century (Eds I.P.S. Ahlawat and Surender Singh), 23 – 27 November 1998, Indian Society of Agronomy, Indian Agricultural Research Institute, New Delhi, India.
- 229. Prasad PVV, Satyanarayana V, Potdar MV. 1994. Integrated crop management strategies for correction of iron chlorosis in groundnut in Andhra Pradesh. p. 43 In: *National Symposium on Integrated Input Management for Efficient Crop Production*, 22 25 February 1994, Indian Society of Agronomy, New Delhi, India.
- 230. Prasad PVV, Shanti M. 1994, Rao PC. Increase in oilseed productivity through integrated weed management systems in Andhra Pradesh. p. 436-437. In: *Proceedings of National Seminar on Oilseed Research and Development in India - Status and Strategies*, 2 – 6 August 1993. Hyderabad, India.
- 231. Prasad PVV, Sharma SHK, Shanti M, Rao PC. 1992. Nutrient economy through weed management in crops in Andhra Pradesh. p. 12-13. In: *Proceedings of National Seminar on Development in Soil*

Complete Curriculum Vitae

Prof. P.V. Vara Prasad

Science, 57th Annual Convention of Indian Society of Soil Science, 26 – 29 November 1992, Central Research Institute for Dryland Agriculture, A.P., India.

XIV. Complete List of Competitive Grants Funded (Since 2006):

Summary of Competitive Funds Received:

Grand Total: ~ 62 million (~ 58 million as PI)

Year 2006: \$ 166,500 (7 grants, 5 as PI);

Year 2007: \$ 607,442 (11 grants, 7 as PI);

Year 2008: \$ 984,420 (17 grants, 12 as PI);

Year 2009: \$ 2,200,973 (15 grants, 10 as PI);

Year 2010: \$ 3,051,560 (19 grants; 13 as PI);

Year 2011: \$ 1,239,721(16 grants, 10 as PI);

Year 2012: \$ 1,483,691 (17 grants, 13 as PI);

Year 2013: \$ 1,144,742 (12 grants, 10 as PI);

Year 2014: \$ 50,400,000 (8 grants, 6 as PI);

Year 2015: \$ 265,000 (5 grants, 1 as PI)

Year 2016: \$ 1,000,000 (8 grants)

Year 2017: \$ 507,672 (6 grants)

Year 2006

- 1. **Prasad PVV**, Tuinstra MR, Kofoid KD, Aiken RM. 2006. Screening sorghum germplasm for drought and heat tolerance. Kansas Grain Sorghum Commission. Amount: \$23,000.
- 2. **Prasad PVV**, Tuinstra MR, Kofoid KD, Aiken RM. 2006. Assessing drought tolerance in grain sorghum. USDA CSREES. Center for Sorghum Improvement. Amount: \$34,000.
- 3. **Prasad PVV**, Fritz AK, Martin TJ. 2006. Sprout resistance in hard white wheat. Kansas Wheat Commission. Amount: \$10,000.
- 4. **Prasad PVV**, Fritz AK, Martin TJ. 2006. Sprout resistance in hard white wheat. Kansas Crop Improvement Association. Amount: \$10,000.
- 5. Tuinstra MR, Claassen M, Gordon WB, Kofoid KD, **Prasad PVV**. 2006. Kansas Grain Sorghum Commission. Amount: \$67,500.
- 6. Aiken RM, **Prasad PVV**, Kofoid KD. 2006. Physiological basis for seed-set in grain sorghum under preflowering drought stress. USDA – CSREES: Ogallala Initiative. Amount: 20,000.
- 7. **Prasad PVV**. 2006. Faculty development awards. Multiple Sources. Amount: 2,000.

- 8. **Prasad PVV**, Tuinstra MR, Kofoid KD, Aiken RM. 2007. Screening sorghum germplasm for drought and heat tolerance. Kansas Grain Sorghum Commission. Amount: \$23,000.
- 9. **Prasad PVV**, Tuinstra MR, Kofoid KD, Aiken RM. 2007. Assessing drought tolerance in grain sorghum. USDA CSREES, Center for Sorghum Improvement. Amount: \$32,942.
- 10. **Prasad PVV**, Fritz AK, Martin TJ. 2007. Sprout resistance in hard white wheat. Kansas Wheat Commission. Amount: \$11,000.
- 11. Prasad PVV, Fritz AK, Martin TJ. 2007. Sprout resistance in hard white wheat. Kansas Crop

Improvement Association. Amount: \$11,000.

- Prasad PVV, Staggenborg SA, Mengel DB. 2007. Integrated soil, water, crop management for improving productivity in sorghum and millet based cropping systems. USAID – INTSORMIL. Amount: \$348,500. (Five Years).
- Prasad PVV, Staggenborg SA, Gowda P, Aiken R. 2007. Comparative performance of finger millet for improving forage quality for dairy livestock in water-limited Ogallala aquifer region. USDA – CSREES: Ogallala Initiative. Amount: \$26,000.
- 14. Tuinstra MR, **Prasad PVV**, Claassen M, Gordon WB. 2007. Breeding grain sorghum for drought and heat tolerance. Kansas Grain Sorghum Commission. Amount: \$73,000.
- 15. Yu J, Tuinstra MR, **Prasad PVV**. 2007. Improving drought tolerance in sorghum through association mapping. Kansas Sorghum Commission. Amount: \$30,000.
- 16. Staggenborg SA, **Prasad PVV**, Gowda P. 2007. Understanding climate variability for improving management decisions. USDA CSREES: Ogallala Initiative. Amount: \$35,000.
- 17. **Prasad PVV**, Stamm M, Godsey CD. 2007. Examining shatter resistance and effects of spring re-growth in winter canola. USDA-CSREES US Canola Growers Association. Amount: \$12,000.
- 18. Tuinstra MR, Prasad PVV. 2007. Corn evaluation studies. Monsanto. Amount: \$5,000.

- 19. Little CR, **Prasad PVV**, Presley D, Roozeboom K. 2008. Influence of soils, nutrition and water relations upon charcoal rot disease process in Kansas. Kansas Soybean Commission. Amount: \$34,758.
- 20. **Prasad PVV**, Roozeboom K, Vadlani P, Yu J. 2008. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission. Amount: \$33,000.
- 21. **Prasad PVV**, Fritz AK. 2008. Drought and heat tolerance in wheat. Kansas Wheat Commission. Amount: \$28,000.
- 22. Yu J, **Prasad PVV**. 2008. Improving drought tolerance in sorghum through association mapping. Kansas Grain Sorghum Commission. Amount: \$60,000.
- 23. Price K, **Prasad PVV**, Staggenborg SA. 2008. Developing real-time crop sensing system to enhance stress tolerance screening. Kansas Grain Sorghum Commission. Amount: \$5,000.
- 24. Kofoid KD, Aiken RA, **Prasad PVV**. 2008. Breeding sorghum with higher yield and improved drought and cold tolerance. Kansas Grain Sorghum Commission. Amount: \$65,000.
- 25. **Prasad PVV,** Staggenborg SA, Gowda P. 2008. Understanding climate variability for improving management decisions. USDA CSREES: Ogallala Initiative. Amount: \$47,000
- 26. **Prasad PVV**, Staggenborg SA. 2008. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali. Amount: \$ 451,420. (Five Years).
- 27. **Prasad PVV**, Staggenborg SA. 2008. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali Training Component. Amount: \$ 30,000.
- 28. **Prasad PVV**, Yu J. 2008. Assessing drought tolerance and biofuel traits in sorghum. USDA CSREES. Center for Sorghum Improvement. Amount: \$32,942.
- 29. **Prasad PVV**, Staggenborg SA, Vadlani PV. 2008. Characterization of bioenergy sorghum. KSU Center for Sustainable Energy. Amount: \$12,500.
- 30. **Prasad PVV**, Fritz AK. 2008. Drought and heat tolerance in wheat. Kansas Crop Improvement Association. Amount: \$7,000.
- 31. **Prasad PVV**. 2008. USDA Foreign Agricultural Service. Borlaug Scholarship. Amount: \$23,000.
- 32. Prasad PVV. 2008. Agronomy Research Gift. Valent Seeds. Amount: \$7,800.
- 33. **Prasad PVV**, Al-Khatib. 2008. Crop Physiology Gift. Agrofresh. Amount: \$ 120,000.
- 34. **Prasad PVV**. 2008. Visiting scholarship. Tamil Nadu Agricultural University. Amount: \$15,000.

35. **Prasad PVV**. 2008. International student support. College of Agriculture. Amount: \$20,000.

Year 2009

- 36. **Prasad PVV**, Staggenborg SA, Minton E. 2009. Great Plains Sorghum Improvement and Utilization Center. USDA Special Grant. Amount: \$480,128.
- 37. **Prasad PVV**, Roozeboom K, Vadlani P, Yu J. 2009. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission. Amount: \$33,000.
- 38. **Prasad PVV**, Fritz AK. 2008. Drought and heat tolerance in wheat. Kansas Crop Improvement Association. Amount: \$7,000.
- 39. **Prasad PVV**, Staggenborg SA, Vadlani PV. 2009. Characterization of bioenergy sorghum. KSU Center for Sustainable Energy. Amount: \$12,500.
- 40. **Prasad PVV.** 2009. Breeding and testing of new switchgrass cultivars for increased biomass production in Oklahoma, Texas, Arkansas and Kansas. US Department of Transportation. Amount: \$12,000.
- 41. **Prasad PVV**, Aiken RM, Xin Z. 2009. Enhancing crop productivity and water use efficiency of sorghum. USDA CSREES: Ogallala Initiative. Amount: \$48,000.
- 42. Aiken RM, **Prasad PVV**, Burke J. 2009. USDA CSREES: Ogallala Initiative. Amount: \$35,000.
- 43. Little CR, **Prasad PVV**, Presley D, Roozeboom K. 2009. Influence of soils, nutrition and water relations upon charcoal rot disease process in Kansas. Kansas Soybean Commission. Amount: \$34,758.
- 44. Yu J, **Prasad PVV**. 2009. Improving drought tolerance in sorghum through association mapping. Kansas Grain Sorghum Commission. Amount: \$60,000.
- 45. Ristic Z, **Prasad PVV**. 2009. Heat tolerance in genetically modified wheat. Kansas Wheat Commission. Amount: \$28,000.
- 46. Roozeboom KL, **Prasad PVV**. 2009. Update publication on growth, development and nutrient update of grain sorghum. United Sorghum Checkoff. Amount: \$26,590.
- 47. Prasad PVV. 2009. Agronomy Research Gift. Valent Seeds. Amount: \$4,000.
- 48. Prasad PVV. 2009. Agronomy Research Gift. Valent Bio Science. Amount: \$20,000.
- 49. **Prasad PVV,** Mengel DB. 2009. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.
- 50. **Prasad PVV**, Staggenborg SA, Dalton TJ, Dhuyvetter K, Rice CW, Presley D, Garrett K, Jumponnen A, Selfa T, Lilja N. 2009. Improving soil quality and crop productivity through farmers tested and recommended conservation agricultural practices in cropping systems of West Africa. USAID SANREM CRSP. Amount: \$1,350,000. (Five Years).

- 51. **Prasad PVV**, Staggenborg SA, Minton E. 2010. Great Plains Sorghum Improvement and Utilization Center. USDA Special Grant. Amount: \$930,668.
- 52. **Prasad PVV**, Yu J, Tesso T. 2010. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission. Amount: \$52,000.
- 53. **Prasad PVV**, Fritz AK. 2010. Drought and heat tolerance in wheat. Kansas Crop Improvement Association. Amount: \$7,000.
- 54. **Prasad PVV**, Staggenborg SA, Vadlani PV. 2010. Characterization of bioenergy sorghum. KSU Center for Sustainable Energy. Amount: \$12,500.
- 55. **Prasad PVV.** 2010. Breeding and testing of new switchgrass cultivars for increased biomass production in Oklahoma, Texas, Arkansas and Kansas. US Department of Transportation. Amount: \$3,094.
- 56. Prasad PVV, Staggenborg SA, Gowda PH. 2010. Statistical and spectral approaches to automate hot

and cold pixel for selection for surface energy balance based evapotranspiration mapping. USDA – CSREES: Ogallala Initiative. Amount: \$45,000.

- 57. Yu J, Tesso T, **Prasad PVV**. 2010. Improving drought tolerance in sorghum through association mapping. Kansas Grain Sorghum Commission. Amount: \$60,000.
- 58. Staggenborg SA, Roozeboom KL, **Prasad PVV**. Development of forage harvester for research plots. Kansas Grain Sorghum Commission. Amount: \$10,000.
- 59. Tesso T, Yu, T, **Prasad PVV**. 2010. Breeding grain sorghum for improved dryland production. Kansas Grain Sorghum Commission. Amount: \$69,800.
- 60. **Prasad PVV**, Fu J. 2010. Heat tolerance in genetically modified wheat. Kansas Wheat Commission. Amount: \$28,000.
- 61. Shroyer JP, **Prasad PVV**, Staggenborg SA. 2010. Applied wheat research to improve cropping efficiency. Kansas Wheat Commission. Amount: \$24,191.
- 62. Roozeboom KL, **Prasad PVV**. 2010. Update publication on growth, development and nutrient update of grain sorghum. United Sorghum Checkoff. Amount: \$26,590.
- 63. Tesso T, Mengel DB, **Prasad PVV**. 2010. Study of genetic and physiological characteristics associated with improved nitrogen use efficiency and drought tolerance. United Sorghum Checkoff. Amount: \$41,500.
- 64. **Prasad PVV**, Staggenborg SA. 2010. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali Training Component. Amount: \$ 53,059.
- 65. **Prasad PVV**. 2010. Borlaug Fellowship Southeast Asia (Indonesia). United States Department of Agriculture. Amount: \$24,937.
- 66. **Prasad PVV**. 2010. Hosting Foreign Climate Change Scientists Borlaug Program (India). United States Department of Agriculture. Amount: \$27,825.
- 67. Akhunov E, **Prasad PVV**. 2010. Improving barley and wheat germplasm for changing environments. United States Department of Agriculture National Institute for Food and Agriculture. Amount: \$1,460,395. (Five Years).
- 68. Prasad PVV. 2010. Enhancing research facilities. Multiple Sources. Amount: \$125,000.
- 69. **Prasad PVV,** Mengel DB. 2010. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.

- 70. **Prasad PVV**, Fritz AK. 2011. Drought and heat tolerance in wheat. Kansas Crop Improvement Association. Amount: \$7,000.
- 71. **Prasad PVV**, Yu J, Tesso T. 2011. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission. Amount: \$104,000.
- 72. **Prasad PVV**, Fu J. 2011. Heat tolerance in genetically modified wheat. Kansas Wheat Commission. Amount: \$28,000.
- 73. **Prasad PVV.** 2011. Breeding and testing of new switchgrass cultivars for increased biomass production in Oklahoma, Texas, Arkansas and Kansas. US Department of Transportation. Amount: \$3,094.
- 74. **Prasad PVV**. 2011. Borlaug Fellowship LEAP. United States Department of Agriculture. Amount: \$20,000.
- 75. **Prasad PVV**, Staggenborg SA. 2011. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali Training Component. Amount: \$ 103,000.
- 76. **Prasad PVV**, Staggenborg SA. 2011. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali Research Component. Amount: \$ 94,436.
- 77. Yu J, Tesso T, **Prasad PVV**. 2011. Improving drought tolerance in sorghum through association mapping. Kansas Grain Sorghum Commission. Amount: \$120,000.

- 78. Tesso T, Yu, T, **Prasad PVV**. 2011. Breeding grain sorghum for improved dryland production. Kansas Grain Sorghum Commission. Amount: \$69,800.
- 79. Tesso T, Yu, T, **Prasad PVV**. 2011. Breeding grain sorghum for improved dryland production. Kansas Grain Sorghum Commission. Amount: \$81,200.
- 80. Mengel DB, Tesso T, **Prasad PVV**, Yu J. 2011. Study of genetic and physiological characteristics associated with improved nitrogen use efficiency and drought tolerance. United Sorghum Checkoff. Amount: \$100,000.
- 81. Shroyer JP, **Prasad PVV**, Staggenborg SA. 2011. Applied wheat research to improve cropping efficiency. Kansas Wheat Commission. Amount: \$24,191.
- 82. Prasad PVV. 2011. Enhancing research facilities. Multiple Sources: Amount: \$60,000.
- 83. **Prasad PVV**. 2011. Enhancing research facilities. K-State Research and Extension. Amount: \$85,000.
- 84. **Prasad PVV**. 2011. Center for Sorghum Improvement. K-State Research and Extension. Amount: \$180,000.
- 85. **Prasad PVV**, Mengel DB. 2012. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.

- 86. **Prasad PVV** and Fritz AK. 2012. Drought and heat tolerance in wheat. Kansas Crop Improvement Association. Amount: \$7,000.
- 87. **Prasad PVV**, Fu J. 2012. Heat tolerance in genetically modified wheat. Kansas Wheat Alliance. Amount: \$37,500.
- 88. **Prasad PVV**, Yu J, and Tesso T. 2012. Screening sorghum germplasm for abiotic stress tolerance and biofuel production. Kansas Grain Sorghum Commission. Amount: \$52,000.
- 89. **Prasad PVV.** 2012. Breeding and testing of new switchgrass cultivars for increased biomass production in Oklahoma, Texas, Arkansas and Kansas. US Department of Transportation. Amount: \$3,094.
- 90. **Prasad PVV,** Steward D, and Gowda PH. 2012. Developing database for ET in Kansas. USDA CSREES: Ogallala Initiative. Amount: \$62,450.
- 91. **Prasad PVV** and Staggenborg SA. 2012. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL Associate Award Mali Training Component. Amount: \$ 74,000.
- 92. **Prasad PVV**, and Schapaugh WT. 2012. Development of soybean lines with improved drought and heat tolerance. United Soybean Board. Amount: \$243,640.
- 93. **Prasad PVV**, Tesso T, and Yu J. 2012. Enhancing drought and heat tolerance in sorghum. United Sorghum Checkoff Program. Amount: \$122,500.
- 94. **Prasad PVV**, Mengel DB, and Jugulam M. 2012. Integrated systems research in Mali Decrue Sorghum. USAID INTSORMIL. Amount: \$75,000.
- 95. Anandhi A, Rice CW, **Prasad PVV**, and Gowda PH. 2012. Analyses of extreme events in Western Kansas (Ogallala Aquifer Program) and its impact on agricultural production. USDA CSREES: Ogallala Initiative. Amount: \$46,848.
- 96. Tesso T, Yu, T and **Prasad PVV**. 2012. Breeding grain sorghum for improved dryland production. Kansas Grain Sorghum Commission. Amount: \$83,200.
- 97. Yu J, Tesso T and **Prasad PVV**. 2012. Improving drought tolerance in sorghum through association mapping. Kansas Grain Sorghum Commission. Amount: \$57,250.
- 98. Rice CW and **Prasad PVV**. 2012. Hosting Foreign GRA Borlaug Program (Vietnam). USDA Foreign Agricultural Service. Amount: \$28,209.
- 99. Prasad PVV. 2012. Enhancing research facilities. Multiple Sources: Amount: \$386,000.
- 100. Prasad PVV. 2012. Center for Sorghum Improvement. K-State Research and Extension. Amount:

\$150,000.

- 101. Prasad PVV. 2012. Agronomy Research Gift. Chromatin. Amount: \$5,000.
- 102. **Prasad PVV,** Mengel DB. 2012. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.

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- 103. **Prasad PVV,** Fu J. 2013. Exploring wheat germplasm for drought and heat tolerance. Kansas Wheat Alliance. Amount: \$30,000.
- 104. **Prasad PVV**. 2013. Understanding mechanisms of physiological and root traits for screening for drought tolerance in common bean. USDA Borlaug Program (India). Amount: \$31,350.
- 105. **Prasad PVV**, and Schapaugh WT. 2013. Drought, heat and flood tolerant varieties for midwest and south: Building on success. United Soybean Board. Amount: \$134,142.
- 106. **Prasad PVV**, Gupta SK. 2013. Heat-tolerant pearl millet for increased and stable production in warmer environment. USAID ICRISAT. Amount: \$20,000.
- 107. **Prasad PVV**, Yu J, and Tesso T. 2013. Improving yield potential of grain sorghum through drought and heat tolerance. Kansas Grain Sorghum Commission. Amount: \$52,000.
- 108. Vadlani P, **Prasad PVV**. 2013. Production of advanced biofuels from salinity tolerant brown midrib sorghum genotypes. USAID ICRISAT. Amount: \$45,000.
- 109. Tesso T, **Prasad PVV**, Jugulam M. 2013. Developing genomic tools to facilitate drought tolerance and ALS resistance breeding in sorghum. Kansas Grain Sorghum Commission. Amount: \$57,250.
- 110. Prasad PVV, Jagadish SVK. 2013. Improving heat tolerance in rice. USAID IRRI. Amount: \$20,000.
- 111. **Prasad PVV**, Fritz AK, Mengel DB. 2013. Developing and enhancing heat tolerance in wheat using genomics, molecular and physiological tools. USAID. Amount: \$460,000. (Five Years).
- 112. Prasad PVV. 2013. Enhancing research facilities. Multiple Sources: Amount: \$120,000.
- 113. **Prasad PVV**. 2013. Center for Sorghum Improvement. K-State Research and Extension. Amount: \$125,000.
- 114. **Prasad PVV**. 2013. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.

- 115. **Prasad PVV,** Fu J. 2014. Exploring wheat germplasm for drought and heat tolerance. Kansas Wheat Alliance. Amount: \$45,000.
- 116. **Prasad PVV**, Yu J, and Tesso T. 2014. Improving yield potential of grain sorghum through drought and heat tolerance. Kansas Grain Sorghum Commission. Amount: \$52,000.
- 117. **Prasad PVV**, Upadhyaya HD, Vadez V. 2014. High temperature tolerance and association mapping in finger millet. USAID ICRISAT. Amount: \$60,000.
- 118. Prasad PVV, Lilja N. 2014. BHEARD Ghana PhD Student. USAID. Amount: \$176,000.
- 119. **Prasad PVV**. 2014. Measuring morpho-physiological traits related to drought tolerance under field and conditions. USDA FAS Borlaug Program (India). Amount: \$29,890.
- 120. Morris G, Perumal R, Tesso T, **Prasad PVV**. 2014. Improved genomic mapping and marker assisted selection for cold tolerance in grain sorghum. Kansas Grain Sorghum Commission. Amount: \$79,000.
- 121. Jugulam M, **Prasad PVV**, Thompson C. 2014. Evaluation of sorghum genotypes for herbicide tolerance. Kansas Grain Sorghum Commission. Amount: \$60,000.
- 122. Prasad PVV. 2014. Enhancing research facilities. Multiple Sources: Amount: \$120,000.

- 123. **Prasad PVV**. 2014. Center for Sorghum Improvement. K-State Research and Extension. Amount: \$75,000.
- 124. **Prasad PVV**. 2014. Center for Sorghum Improvement. Kansas Grain Sorghum Commission. Amount: \$50,000.
- 125. **Prasad PVV**, Pierzynski GM, Lilja N. Sustainable Intensification Innovation Lab. Feed the Future Collaborative Research on Sustainable Intensification. USAID. Amount: \$50,000,000; 2014 2019 (Five Years).

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- 126. Jagadish SVK, Fritz AK, **Prasad PVV**. 2015. Strategies to develop wheat genotypes to beat postflowering heat and drought stress. Kansas Wheat Commission. Amount: \$45,000.
- 127. Falalu H, Jagadish SVK, **Prasad PVV.** 2015. Improving pearl millet productivity for smallholder resilience to climate change in Niger. USAID ICRISAT. Amount: \$30,000.
- 128. Jugulam M, **Prasad PVV**, Thompson C. 2015. Evaluation of sorghum genotypes for herbicide tolerance. Kansas Grain Sorghum Commission. Amount: \$30,000.
- 129. Jugulam M, **Prasad PVV**, Thompson C. 2015. Evaluation of sorghum genotypes for herbicide tolerance. United Sorghum Checkoff Program. Amount: \$30,000.
- 130. Jagadish SVK, Prasad PVV, Morris G, Perumal R. 2015. Physiological and genetic characterization of grain sorghum for enhancing terminal heat and drought stress resilience. Kansas Grain Sorghum Commission. Amount: \$55,000.
- 131. **Prasad PVV**, Pierzynski GM, Lilja N. 2015. Climate smart and sustainable intensification assessment of Rwanda. USAID Rwanda Mission. Amount: \$75,000.

Year 2016

- 132. Jagadish SVK, Fritz AK, **Prasad PVV**. 2016. Strategies to develop wheat genotypes to beat postflowering heat and drought stress. Kansas Wheat Commission. Amount: \$45,000.
- 133. Falalu H, Jagadish SVK, **Prasad PVV.** 2016. Improving pearl millet productivity for smallholder resilience to climate change in Niger. USAID ICRISAT. Amount: \$30,000.
- 134. Jugulam M, **Prasad PVV**, Thompson C. 2016. Evaluation of sorghum genotypes for herbicide tolerance. Kansas Grain Sorghum Commission. Amount: \$30,000.
- 135. Jugulam M, **Prasad PVV**, Thompson C. 2016. Evaluation of sorghum genotypes for herbicide tolerance. United Sorghum Checkoff Program. Amount: \$30,000.
- 136. Jagadish SVK, Prasad PVV, Morris G, Perumal R. 2016. Physiological and genetic characterization of grain sorghum for enhancing terminal heat and drought stress resilience. Kansas Grain Sorghum Commission. Amount: \$55,000.
- 137. Ciampitti I, et al. Prasad PVV. 2016. Corn management decision guiding website and mobile app. Kansas Corn Commission. Amount: \$39,350.
- Rice, CW, Prasad PVV, Golden W, Lin X, Kisekka I, Schlegel A, Sanderson M, Aguilar J, Rogers D. 2016. WATER: Sustaining southern high plains agriculture through adaptive management to a declining Ogallala aquifer and changing climates. USDA – NIFA. Amount: \$650,000 (Four Years: 2016 – 2020).
- 139. Reyes M, Prasad PVV. 2016. Scaling up drip irrigation, conservation agriculture and rainwater harvesting for commercial vegetable home gardens to specially benefit women and youth. USAID – Guatemala – Mission. Amount: \$107,800.

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140. Prasad PVV, Pierzynski GM, Stewart Z, Middendorf JB. 2017. Sustainable Soil Fertility Prioritization for

Sub-Saharan Africa. International Fertilizer Development Corporation. Amount: \$200,000.

- 141. Reyes M, **Prasad PVV**. 2017. Scaling up drip irrigation, conservation agriculture and rainwater harvesting for commercial vegetable home garden to specially benefit women and youth. USAID Horticultural Innovation Lab. Amount: 138,322.
- 142. Jagadish SVK, Fritz AK, **Prasad PVV**. 2017. Strategies to develop wheat genotypes to beat postflowering heat and drought stress. Kansas Wheat Commission. Amount: \$45,000.
- 143. Jugulam M, **Prasad PVV**, Thompson C. 2017. Evaluation of sorghum genotypes for herbicide tolerance. Kansas Grain Sorghum Commission. Amount: \$30,000.
- 144. Jagadish SVK, **Prasad PVV**, Morris G, Perumal R. 2017. Physiological and genetic characterization of grain sorghum for enhancing terminal heat and drought stress resilience. Kansas Grain Sorghum Commission. Amount: \$55,000.
- 145. Ciampitti IA, et al. **Prasad PVV**. 2017. Crop management decision guiding website and mobile app. Kansas Corn Commission. Amount: 39,350.