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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);



R.O. Kruse Endowed Professor of Agriculture; and
Past President, Crop Science Society of America

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Twitter: [@SIIL_KSU](https://twitter.com/SIIL_KSU); Facebook: [SIILKSU](https://www.facebook.com/SIILKSU); Instagram: [@SIIL_KSU](https://www.instagram.com/SIIL_KSU)

Google Scholar: [View Profile](#); Research Gate: [View Profile](#)

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:

Oct. 2020 to present	R.O. Kruse Endowed Professor of Agriculture
July 2016 to present	University Distinguished Professor, Crop Ecophysiology and Farming Systems
Oct. 2014 to present	Director, Feed the Future Sustainable Intensification Innovation Lab
July 2013 to June 2016	Professor, Crop Ecophysiology
July 2009 to June 2016	Director, Great Plains Sorghum Improvement and Utilization Center
July 2009 to June 2013	Associate Professor, Crop Ecophysiology
Aug. 2005 to June 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 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)
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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)
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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.

III. Fellowships:

Elected Fellow (2016)	American Association for the Advancement of Science (AAAS).
Elected Fellow (2015)	Crop Science Society of America (CSSA).
Elected Fellow (2014)	American Society of Agronomy (ASA).
Elected Foreign Fellow (2022)	Indian Society of Plant Physiology.

IV. Scholarships, Awards and Recognitions:

Highly Cited Researcher Top 1% (2022)	Clarivate / Web of Science / Scopus.
Outstanding Unit Award (2022)	International Programs, Kansas State University, USA.
L.R. Ahuja Ag. Syst. Modeling Award (2022)	Soil Science Society of America, USA.
Board Representative (2022 – 2025)	The Council for Agricultural Science and Technology, USA.
Honour Award (2021)	International Agronomy Congress, Indian Society of Agronomy.
Iconic Professor (2021)	International Multidisciplinary Research Foundation.
President (2021)	Crop Science Society of America, USA.
President (2021 – 2022)	University Distinguished Professors Group, KSU.
President (2021 – 2022)	Sigma Xi, KSU – Chapter.
R.O. Kruse Professorship (2020)	Endowed Professorship in Agriculture, KSU.
International Agronomy Award (2020)	American Society of Agronomy, USA.
Commissioner (2020 – 2021)	International Commission on Sustainable Agricultural Intensification (Co-SAI).
FSLI – Fellow Cohort 13 (2017 – 2019)	Food Systems Leadership Institute, Association of Public Land-Grant Universities, USA,
Irvin E. Youngberg Award (2017)	Higuchi Research Achievement Award, University of Kansas.
Martin & Ruth Massengale Lectureship (2017)	Crop Science Society of America.
Distinguished Faculty Award (2017)	Gamma Sigma Delta, The Honor Society of Agriculture, KSU.
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.
Graduate Teaching Award (2015)	Excellence in Teaching, College of Agriculture, KSU.
LEAD 21 – Class X (2015)	Leadership for the 21 st 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.

Felix Scholarship (1996 – 1999)	Fully funded competitive scholarship for PhD studies, offered at 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.
PPIC Gold Medal (1994)	Potash and Phosphate Institute of Canada - Gold Medal for Best 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:

Editorial Board (2014 – present)	Journal of Agronomy and Crop Science
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
Guest Editor (2019 – present)	International Journal of Molecular Sciences
Editorial Board (2020 – present)	BMC Plant Biology
Associate Editor (2009 – 2018)	Agronomy Journal
Editorial Board: (2009 – 2014)	African Journal of Crop Science
Editorial Board: (2006 – 2014)	African Journal of Agricultural Research
Associate Editor (2009 – 2016)	Crop Science
Guest Editor (2022 – 2023)	Plant and Soil
Guest Editor (2022 – 2023)	Frontiers in Sustainable Food Systems
Guest Editor (2021 – 2022)	Frontiers in Genetics
Guest Editor (2020 – 2022)	Field Crops Research

Manuscript Reviewer: Reviewed >500 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 Sciences; Irrigation

Science; Japanese 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; Proceedings of National Academy of Science; Science; Science Asia; Theoretical and Applied Genetics; 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.

VII. Committees / Professional Services:

National and International Organizations

Crop Science Society of America (CSSA) / American Society of Agronomy (ASA) / Alliance of Crop, Soil, and Environmental Science Societies (ACSESS) / Agronomy, Crops and Soils (ACS) / United States Department of Agriculture (USDA) / American Association for the Advancement of Science (AAAS) / Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) / Council of Agriculture Science and Technology (CAST)

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| 1. CSSA – Special Awards Committee | 2023 – 2024 |
| 2. CAST – Plant Working Group – Vice Chair | 2023 |
| 3. CAST – Member | 2022 – 2025 |
| 4. Chair – CSSA Fellows Committee | 2022 |
| 5. Chair – CSSA Policy Committee | 2022 |
| 6. Chair – CSSA Special Awards Committee – Chair | 2022 |
| 7. International Committee – CSSA | 2022 |
| 8. Communication Committee – CSSA | 2022 |
| 9. Past President – CSSA | 2022 |
| 10. ACS – Golden Opportunity Scholars – Committee | 2022 |
| 11. CSSA – Organization, Policy and Bylaws Committee – Chair | 2022 |
| 12. CSSA – Betty Klepper Endowed Lectureship Committee | 2022 |

13. President – CSSA	2021
14. ACS – SACNAS Working Group	2021
15. ACS – Task Force on International Activities	2021 – 2022
16. ACSESS – Operations and Policy Committee	2021 – 2022
17. ACSESS – Budget, Finance and Audit Committee	2021 – 2022
18. AAAS Consortium of Affiliates – Liaison	2021
19. CSSA – Nominations for President-Elect Committee – Chair	2021
20. Liaison on Council of Scientific Society of Presidents	2020 – 2022
21. Science Policy Committee	2020 – 2022
22. Board of Director – CSSA	2020 – 2022
23. ACS – Annual Meeting Planning Committee	2020
24. President Elect – CSSA	2020
25. Communication Committee – CSSA – Chair	2020
26. Budget and Finance Committee – CSSA – Member	2020
27. CSSA – Executive Committee – Member	2020
28. CSSA – Program Planning Committee – Chair	2020
29. Betty Klepper Endowed Lectureship Committee – Chair	2020
30. Board of Directors – CSSA	2020 – 2022
31. Search Committee for ACSESS – Chief Executive Officer	2019
32. Annual Meeting Planning Committee (ACS) Member	2019
33. Incoming President Elect	2019
34. Member – CSSA Fellow Committee	2019 – 2020
35. Chair – Sustainable Intensification Community of ASA	2018
36. Chair Elect – Sustainable Intensification Community of ASA	2017
37. Past Chair – Crop Physiology (C-2) Division of CSSA	2016
38. Chair – Crop Physiology (C-2) Division of CSSA	2015
39. Chair – Nomination Committee for C-2 Division Officers	2015
40. Member – Nomination Committee for C-2 Division	2015 – 2017
41. Member – Nomination for President Elect Committee	2015
42. Chair Elect – Crop Physiology Division	2014
43. Chair – Martin & Ruth Massengale Lectureship – CSSA	2014
44. Member – Diversity in Agronomy, Crops and Soils	2006 – 2009
45. Member – Poster / Oral Student Presentation Awards	2008; 2009; 2010; 2013
46. Session Chair – Crop Physiology	2007 – 2014
47. Session Chair – Sustainable Agriculture	2012
48. Member – National Committee USDA – Photosynthesis	2006 – present
Association of Agricultural Scientists of Indian Origin	
1. Member – Advisory Board	2013 – 2014
2. Past President	2013

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| 3. President | 2010 – 2012 |
| 4. Member – Nomination Committee | 2012 |
| 5. Member – Awards Committee | 2005 – 2007; 2009 – 2013 |

Other Universities and International Organizations

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| 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

Department of Agronomy – Kansas State University

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|---|-------------|
| 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 |
| 10. Faculty Mentoring Committee | 2009 – 2015 |
| 11. Computer Network and Web Advisory Committee | 2009 – 2012 |
| 12. Agronomy Seminar Committee | 2005 – 2012 |
| 13. Kids Field Day Committee | 2005 – 2012 |
| 14. Graduate Scholarship Committee | 2005 – 2015 |
| 15. Safety Committee | 2005 – 2015 |
| 16. Harvey County Experiment Field Advisory Committee | 2005 – 2012 |

College of Agriculture (CoA) / Kansas State University (KSU)

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|---|------|
| 1. Past President – University Distinguished Professor Group | 2022 |
| 2. Past President – Sigma Xi – KSU Chapter | 2022 |
| 3. Member – Vice President for Administration and Finance, Search Committee | 2022 |
| 4. President – University Distinguished Professor Group | 2021 |
| 5. President – Sigma Xi – KSU Chapter | 2021 |
| 6. Vice President – University Distinguished Professors | 2020 |

7. Vice President – Sigma Xi – KSU Chapter	2020
8. Secretary – University Distinguished Professors	2019
9. Member – Dean / Director, CoA, Search Committee	2019
10. Member – University Distinguished Professor Committee	2019
11. Member – UDP Graduate Student Award Committee	2019; 2021
12. Member – Higuchi Research Achievement Award Comm.	2018, 2019
13. Member – Distinguished Graduate Faculty Award Comm.	2016 – 2020
14. Member – International Educator Award Committee	2014 – 2018, 2019 – 2022
15. Member – Graduate Council	2013 – 2015
16. Member – Graduate Student Committee	2013 – 2015
17. Member – Executive Committee - Sigma Xi – KSU Chapter	2013 – 2015; 2020
18. Member – Graduate Student Award Committee	2014
19. Member – African Agricultural Forum (Symposium)	2010

VIII. Teaching, and Student Mentoring/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:	2007 (4.7); 2009 (4.4); 2011 (4.7); 2013 (4.8)
	Amount Learned:	2007 (4.5); 2009 (4.3); 2011 (4.4); 2013 (4.5)
Advanced Crop Ecology:	Teaching Effectiveness:	2008 (4.5); 2010 (4.8); 2012 (4.8); 2014 (5.0)
	Amount Learned:	2008 (4.8); 2010 (5.0); 2012 (4.7); 2014 (5.0)

Graduate Students and Research Scholars: Mentoring, Advising and Training

Total: >210 [>80 Graduate Students (Major Advisor or Committee Member), >50 Research Scholars, >70 Undergraduate Researchers + >10 Faculty/Staff]

Major Advisor:

Current Faculty / Postdoctoral Associates / Research Associates / Visiting Scientists:

1. Dr. Araya Berhe, Crop Simulation Modelling, Kansas State University, USA.
2. Dr. Prakash Jha, Crop Modelling and Geospatial Analysis, Kansas State University, USA.

Current MS/PhD Students (Major or Co-Advisor): Country of Origin; Degree; and Graduating Year

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|--------------------------------|----------------|-----------------|
| 1. Ms. Manogna Devi (India) | MS (Agronomy) | Graduating 2023 |
| 2. Mr. Ajay Ramalingam (India) | PhD (Agronomy) | Graduating 2025 |

Graduated PhD Students (Major Advisor): Country of Origin; Degree; Year; Current Position

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|---------------------------------|----------------|------|---------------------|
| 1. Dr. Balaji Pandian (India) | PhD (Agronomy) | 2020 | Scientist, Industry |
| 2. Dr. Regina Enningful (Ghana) | PhD (Agronomy) | 2019 | Scholar |

3.	Dr. Huan Wang	(China)	PhD (Agronomy)	2017	Scholar, Industry
4.	Dr. Jason Waite	(USA)	PhD (Agronomy)	2016	Agronomist, USDA
5.	Dr. Kyle Shroyer	(USA)	PhD (Agronomy)	2016	Agronomist, Industry
6.	Dr. Amal Ehtaiwesh	(Libya)	PhD (Agronomy)	2016	Faculty, University
7.	Dr. George Mahama	(Ghana)	PhD (Agronomy)	2015	Scientist, Research
8.	Dr. Sruthi Narayanan	(India)	PhD (Agronomy)	2015	Faculty, University
9.	Dr. George Paul	(India)	PhD (Agronomy)	2013	Scientist, University
10.	Dr. S. Subramanian	(India)	PhD (Agronomy)	2013	Research Scholar
11.	Dr. Alassan Maiga	(Mali)	PhD (Agronomy)	2012	Scientist, Research
12.	Dr. Rachel Opole	(Kenya)	PhD (Agronomy)	2012	Scientist, Research
13.	Dr. Raymond Mutava	(Kenya)	PhD (Agronomy)	2012	Scientist, University
14.	Dr. Troy Ocheltree	(USA)	PhD (Agronomy)	2012	Faculty, University
15.	Dr. Gautam Pradhan	(Nepal)	PhD (Agronomy)	2011	Faculty, University

Graduated MS Students (Major Advisor): Country of Origin; Degree; Year; Current Position

16.	Ms. Matti Kuykendall	(USA)	MS (Agronomy)	2015	Research Scholar
17.	Mr. Sory Diallo	(Mali)	MS (Agronomy)	2012	Scientist, Research
18.	Mr. George Mahama	(Ghana)	MS (Agronomy)	2012	Scientist, Research
19.	Ms. Sruthi Narayanan	(India)	MS (Agronomy)	2011	Doctoral Student
20.	Mr. Raymond Mutava	(Kenya)	MS (Agronomy)	2008	Scientist, University
21.	Mr. Grant Groen	(USA)	MS (Agronomy)	2008	Scientist, Industry
22.	Ms. Sudha Pisipati	(India)	MS (Agronomy)	2008	Scientist, Industry

Postdoctoral / Visiting Scholars, Scientists and their Current Positions (Duration at KSU):

1. Dr. Gurjeet Singh, Geospatial Modeler, Michigan State University, USA (12 months).
2. Dr. Hardeep Singh, Assistant Professor, University of Florida, USA (15 months).
3. Dr. Aditi Kumari, Consultant, Private Industry, USA (5 months).
4. Dr. Balaji Pandian, Herbicide Trait Development, Enko Chem, USA (9 months).
5. Dr. Zach Stewart, Production Systems Technical Advisor, USAID, USA (4 years).
6. Dr. Suresh Kumar, Agricultural Extension, Acharya N.G. Ranga Agricultural University, India (2 months).
7. Dr. Hamidou Traore, Director General, INERA, Burkina Faso (10 days).
8. Dr. Yonil Jibril, Weed Scientist, INERA, Burkina Faso (15 days).
9. Dr. Maduraimuthu Djanaguiraman, Crop Physiologist, Tamil Nadu Agricultural University, India (3 years).
10. Dr. Patrick Kilby, Australian National University (Fulbright Scholar), Senior Lecturer, Canberra, Australia (6 months).
11. Dr. Jintian Song, Agricultural Economist, Huazhong Agricultural University, Wuhan, China (Visiting Scholar; 6 months).
12. Dr. Ai-Qing Sun, College of Agronomy, Shandong Agricultural University (Visiting Scholar; 1 year), Shandong, China. (Co-Advisor Krishna Jagadish).
13. Dr. John Sunoj, Postdoctoral Scholar, Texas A and M University, USA. (2 years).
14. Dr. Hanafey F. Maswada, Assistant Professor, Faculty of Agriculture, Tanta University (Visiting

- Scholar: 6 months), Tanta, Egypt. (Co-Advisor Krishna Jagadish).
15. 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).
 16. Ms. Vinutha Kanaganahalli, International Crop Research Institute for the Semi-Arid Tropics, India (60 days), Research Scholar, Sorghum Breeding, Hyderabad, India.
 17. Winthrop Professor Zed Rengel, University of Western Australia (Senior Fulbright Scholar; 6 months), Professor, University of Western Australia, Perth, Australia.
 18. Ms. Cheryl Quinones, International Rice Research Institute (6 months); Crop Physiologist, International Rice Research Institute, Manila, Philippines.
 19. Ms. Laavanya Rayaprolu, International Crop Research Institute for the Semi-Arid Tropics, India (60 days), Sorghum Breeding, Hyderabad, India.
 20. Dr. Utharasu Subramaniam, Tamil Nadu Agricultural University, India (1 year). Assistant Professor, Tamil Nadu Agricultural University, India.
 21. Ms. Vimala Kanagarethinam, Crop Physiology, India (1 year).
 22. Dr. Rakesh Pandey, Indian Agricultural Research Institute, India (3 months). Senior Scientist – Wheat Physiology, Indian Agricultural Research Institute, New Delhi, India.
 23. Dr. Parvez Sofi, Sher-e-Kashmir University, Jammu, India (Borlaug Fellow, 3 months). Associate Professor – Bean Breeding, Sher-e-Kashmir University, Jammu, India.
 24. Dr. Arti Bhatia, Indian Agricultural Research Institute, India (15 days); Principal Scientist – Agricultural Climatology, Indian Agricultural Research Institute, New Delhi, India.
 25. Dr. Sanjana Reddy, Directorate of Sorghum Research (15 days); Senior Scientist, Sorghum Breeding, Directorate of Sorghum Research, Hyderabad, India.
 26. Dr. Tara Satyavathi, Indian Agricultural Research Institute, India (3 months); Principal Scientist, Millet Breeding, Indian Agricultural Research Institute, New Delhi, India.
 27. 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.
 28. Dr. Le Loan: (3 months, Borlaug Fellow). Lecturer, Nong Lam University, Vietnam.
 29. Dr. Leena Diwakar: K-State (6 months); Researcher, Kansas State University, USA.
 30. Dr. Satheesh Subramaniam, Tamil Nadu Agricultural University, India (1 year). Assistant Professor, University.
 31. Dr. Sarma Mallabothala: Harvest Plus, Canada (6 months); Private Industry, Canada.
 32. Dr. Roger Kanton: Savanna Agricultural Research Institute, Ghana (30 days); Associate Director, Savanna Agricultural Research Institute, Ghana.
 33. Dr. Rachel Opole: Kenyan Agricultural Research Institute (Borlaug Fellow); Agronomist, Kenyan Agricultural Research Institute, Kenya.
 34. Dr. Jianming Fu: USDA - ARS, Manhattan, USA (6 months); Plant Physiologist, USDA-ARS.
 35. Mr. Amit Pradhan: Research Scholar, Mata Vaishnav Devi University, India (1 year); Scholar, Private Company, India.
 36. Dr. Savanam S. Rao: Directorate of Sorghum Research, Hyderabad, India (4 months); Principal Scientist, Crop Physiology, Directorate of Sorghum Research, Hyderabad, India.
 37. Dr. Gautam P. Pradhan: Crop Physiologist, Nepal (1 year); Agronomist, North Dakota State University, USA.
 38. Mr. Mohammed Mustafa, Kansas State University (1 year), Scholar, Private Company.
 39. Mr. Abdoul Wahab Toure: Institute of Economic and Rural Development, Mali (2 months); Agronomist, Institute of Economics and Rural Development, Mali.

40. Ms. Eva Erdayani: Indonesian Institute of Sciences, Indonesia (3 months, Borlaug Fellow); Doctoral Student, Washington State University, USA.
41. 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.
42. 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.
43. Dr. Sarvana Pandian: Tamil Nadu Agricultural University, India (1 month); Professor, Tamil Nadu Agricultural University, India.
44. Dr. Mamadou Doumbia: Institute of Economic and Rural Development, Mali (15 days); Retired - Director, Soil Testing Laboratory, Institute of Economics and Rural Development, Mali.
45. Dr. Jesse Naab: Savanna Agricultural Research Institute, Ghana (30 days); Scientist, WASCAL, Burkina Faso.
46. Dr. Sundeep Kumar: Banaras Hindu University, India (6 months); Principal Scientist, National Bureau of Plant Genetic Resources, New Delhi, India.
47. Dr. C. Udayasoorian: Tamil Nadu Agricultural University, India (2 months); Retired - Dean, Post Graduate Studies, Tamil Nadu Agricultural University, India.
48. Dr. James Pitchai: Tamil Nadu Agricultural University, India (2 months); Retired - Vice Chancellor, Bharathiar University, India.
49. Dr. Rishi Pal Singh: Birsa Agricultural University, India (20 days); Director, Seed Science Division, Birsa Agricultural University, India.
50. Ms. Sudha Pisipati, Kansas State University (6 months); Research Scholar, Private Company.
51. Mr. A. Masterodominca: University of Sao Paulo, Brazil (6 months); Scholar, Private Company.

Member of Advisory Committee of Graduate Students:

Current PhD Graduate Students:

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|-----------------------------------|---------------------|-----------------|
| 1. Ms. Luciana Nieto (Argentina) | PhD (Agronomy) | Graduating 2023 |
| 2. Mr. Brent Christenson (USA) | PhD (Agronomy) | Graduating 2023 |
| 3. Ms. Anu Raj (India) | PhD (Grain Science) | Graduating 2023 |
| 4. Mr. Troy Ostmeier (USA) | PhD (Agronomy) | Graduating 2023 |
| 5. Ms. Susee Sudhakar (India) | PhD (Agronomy) | Graduating 2024 |
| 6. Josefina Lacasa (Argentina) | PhD (Agronomy) | Graduating 2024 |
| 7. Ignacio Massingoge (Argentina) | PhD (Agronomy) | Graduating 2024 |

Current MS Graduate Students:

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| 8. Ms. Valentina Pereyra (Argentina) | MS (Agronomy) | Graduating 2023 |
| 9. Mr. James Ross (USA) | MS (Agronomy) | Graduating 2023 |

Graduated PhD Students:

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|-------------------------------------|----------------|----------------|
| 1. Ms. Rachel Veenstra (USA) | PhD (Agronomy) | Graduated 2022 |
| 2. Mr. Mario Secchi (Brazil) | PhD (Agronomy) | Graduated 2022 |
| 3. Mr. Javier Fernandez (Argentina) | PhD (Agronomy) | Graduated 2021 |
| 4. Mr. Adrian Correndo (Argentina) | PhD (Agronomy) | Graduated 2021 |
| 5. Dr. Santiago Tamagno (Brazil) | PhD (Agronomy) | Graduated 2019 |
| 6. Dr. Edwin Akley (Ghana) | PhD (Agronomy) | Graduated 2019 |
| 7. Dr. Anuj Chilawal (India) | PhD (Agronomy) | Graduated 2019 |

8.	Dr. Guillermo Balboa	(Argentina)	PhD (Agronomy)	Graduated 2018
9.	Dr. Abhishes Lamsal	(Nepal)	PhD (Agronomy)	Graduated 2017
10.	Dr. Sridevi Betha	(India)	PhD (Agronomy)	Graduated 2016
11.	Dr. Andrew Green	(USA)	PhD (Agronomy)	Graduated 2016
12.	Dr. Sarah Battenfield	(USA)	PhD (Agronomy)	Graduated 2016
13.	Dr. Iddrisu Yahaya	(Ghana)	PhD (Ag. Economics)	Graduated 2015
14.	Dr. Joshua Jennings	(USA)	PhD (Agronomy)	Graduated 2015
15.	Dr. Shyamal Talukder	(Bangladesh)	PhD (Agronomy)	Graduated 2013
16.	Dr. Sivakumar Sukumaran	(India)	PhD (Agronomy)	Graduated 2012
17.	Dr. Mary Joi Abit	(Philippines)	PhD (Agronomy)	Graduated 2010
18.	Dr. Yared Assefa	(Ethiopia)	PhD (Agronomy)	Graduated 2010
19.	Dr. Jung Lee	(Korea)	PhD (Plant Pathology)	Graduated 2009
20.	Dr. John Frihauf	(USA)	PhD (Agronomy)	Graduated 2009
21.	Dr. Kent Martin	(USA)	PhD (Agronomy)	Graduated 2009

Graduated MS Students:

22.	Mr. Sunil Bhandari	(India)	MS (Biol. Ag. Engg.)	Graduated 2021
23.	Ms. Paula Demarco	(Argentina)	MS (Agronomy)	Graduated 2021
24.	Ms. Luciana Nieto	(Argentina)	MS (Agronomy)	Graduated 2020
25.	Mr. Issac Barnhart	(USA)	MS (Agronomy)	Graduated 2020
26.	Mr. Osler Ortez-Amador	(Argentina)	MS (Agronomy)	Graduated 2019
27.	Mr. Javier Fernandez	(Argentina)	MS (Agronomy)	Graduated 2019
28.	Ana Julia Azevedo		MS (Agronomy)	Graduated 2017
29.	Mr. Jonathan Broeckelman	(USA)	MS (Agronomy)	Graduated 2016
30.	Ms. Bailey McHenry	(USA)	MS (Agronomy)	Graduated 2016
31.	Mr. Joseph Hong	(China)	MS (Plant Pathology)	Graduated 2016
32.	Ms. Randi Clark	(USA)	MS (Agronomy)	Graduated 2016
33.	Mr. Edwin Akley	(Ghana)	MS (Agronomy)	Graduated 2015
34.	Mr. Devin Mangus	(USA)	MS (Ag. Bio. Engg.)	Graduated 2015
35.	Mr. Nathan Keep	(USA)	MS (Agronomy)	Graduated 2013
36.	Mr. Bandigou Diawara	(Mali)	MS (Agronomy)	Graduated 2012
37.	Mr. Hugo Remaury	(USA)	MS (Ag. Economics)	Graduated 2012
38.	Mr. Frank Maulana	(Malawi)	MS (Agronomy)	Graduated 2011
39.	Mr. David Cruz	(Columbia)	MS (Plant Pathology)	Graduated 2011
40.	Ms. Sruthi Narayanan	(India)	MS (Agronomy)	Graduated 2011
41.	Mr. Kyle Shroyer	(USA)	MS (Agronomy)	Graduated 2010
42.	Mr. Kentaro Takamatsu	(Japan)	MS (Elect. Engg.)	Graduated 2009
43.	Mr. Levi Walker	(USA)	MS (Agronomy)	Graduated 2009
44.	Ms. Laurene Smith	(USA)	MS (Agronomy)	Graduated 2008
45.	Mr. Michael Duff	(USA)	MS (Agronomy)	Graduated 2007

46. Mr. Chris Pachta	(USA)	MS (Agronomy)	Graduated 2007
47. Mr. Souley Soumana	(Niger)	MS (Agronomy)	Graduated 2007
48. Mr. Phani Mallacheruvu	(India)	MS (Civil Engg.)	Graduated 2007
49. Mr. Ganesh Nagiseti	(India)	MS (Civil Engg.)	Graduated 2007
50. Mr. Corey Roozenboom	(USA)	MS (Agronomy)	Graduated 2006

Research Scholarships and Training:

Provided Scholarships to 60 Undergraduate Students from India (2 – 3 months) through funding from ICAR and World Bank from multiple universities.

Provided Scholarships and training to 7 Graduate Students and 7 Faculty from Cambodia (15 to 60 days) through funding from Royal University of Agriculture through the World Bank.

IX. Research and Education Grants; and Gifts (Since 2006)

Secured **>\$150 million in grants (>\$82 million as Principal Investigator, PI)** and **\$8 million in donations**.

Number of Total Grants Funded: >160 (>\$120 million). Complete list available at the end of this CV.

Number of Grants Funded as PI: >90 (~85% success).

Selected 12 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**, Lilja N. Sustainable Intensification Innovation Lab (SIIL). Feed the Future Collaborative Research on Sustainable Intensification. USAID. Amount: \$25,000,000; 2019 – 2024.
3. **Prasad PVV**, Middendorf BJ. Haiti Agricultural University Partnership – Center of Excellence on Mitigation, Adaptation, and Resilience to Climate-Change in Haiti (CEMARCH). USAID-Haiti Mission. Amount: \$12,000,000; 2021 – 2026.
4. **Prasad PVV**, Lilja N, Middendorf BJ, Reyes M. Center of Excellence on Sustainable Agricultural Intensification and Nutrition. USAID-Cambodia Mission. Amount: \$7,000,000; 2019 – 2024.
5. **Prasad PVV**, Middendorf BJ. Innovation in Research, Education, Advisory Coordination Hub (iREACH). USAID. Amount: \$5,000,000; 2021 – 2026.
6. **Prasad, PVV**, Staggenborg SA, Minton E, Baltensperger D and Misra S. Great Plains Sorghum Improvement and Utilization Center (GPSIUC). USDA – CSREES, \$1,412,796; 2009 – 2011.
7. **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.
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**, 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.
10. **Prasad PVV**. Improving barley and wheat germplasm for changing environments. USDA – NIFA, \$730,000; 2010 – 2015.
11. **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.
12. **Prasad PVV**, Schapaugh WT. Improving heat and drought tolerance in soybean. United Soybean Board, \$300,000; 2011 – 2014.

Gifts (Donations): \$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 (Gholipour 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. *Funct. Plant Biol.* 39: 51-59; Kumar et al. 2012. *Euphytica* 186: 265-276; Prasad and Djanaguiraman 2014. *Funct. 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, leaf, chloroplast and pollen structural/anatomical changes, leading to lower photosynthesis and 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:

1. **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.

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

2. **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.

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.

3. **Prasad PVV**, Pisipati SR, Momcilovic I, Ristic Z. 2011. Independent and combined effects of high temperature and drought stress during grain filling on plant yield and chloroplast EF-Tu expression in spring wheat. *J. Agron. Crop Sci.* 197:430-441.

Knowledge: The paper quantified and demonstrated that combined effects were more damaging than individual effects on physiology and yield.

4. **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.

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.

5. **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.

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

6. **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.

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

7. **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.

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).

8. **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.

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.

9. **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.

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.

10. **Prasad PVV**, Djanaguiraman. Response of floret fertility and individual grain weight of wheat to high temperature stress: sensitive stages and thresholds for temperature and duration. *Functional Plant Biology* 28: 1261-1269.

Knowledge: This paper was the first to quantify temperature responses (timing, intensity and duration) of wheat.

11. **Prasad PVV**, Craufurd PQ, Summerfield RJ. 1999. Sensitivity of peanut to timing of heat stress during reproductive development. *Crop Sci.* 39:1352-1357.

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

12. **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.

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.

Scholarship in Research and Extension in an International Context of Global 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 (2008-2014) (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.

Asia: 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.

Global: 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, SIIL). 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.

In 2016, established Center of Excellence for Sustainable Agricultural Intensification and Nutrition (CESAIN) at the Royal University of Agriculture in Cambodia with support from USAID-Cambodia Mission.

In 2019, the SIIL was further extended for another five years (2019-2024) with additional support (\$25 million).

In 2020, established innovation Research, Education, Advisory Coordination Hub (iREACH) at CORAF (West and Central African Council for Agricultural Research and Development) in Senegal with support from USAID.

In 2021, received large grant focused on Haiti Agricultural University Partnership to build human and institutional capacity of six universities in Haiti and to establish Center of Excellence on Mitigation, Adaptation, and Resilience to Climate-Change in Haiti (CEMARCH) with support from USAID-Haiti Mission.

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 multiple 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, pearl millet, finger 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).
- 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 donations to College of Agriculture at KSU.
- Highly successful in grant funding. Submitted >200 proposals of which >180 were funded (>100 as PI; and >90% success rate of funding).
- Gave >250 presentations at international meetings (including >150 invited talks) in 40 different countries (e.g., Ghana, Mali, Niger, Senegal, Burkina Faso, Egypt, Morocco, Kenya, Ethiopia, Rwanda, Uganda, South Africa, El-Salvador, Mexico, Indonesia, Cambodia, Thailand, Malaysia, Philippines, Vietnam, India, Australia, China, Hong Kong, United Kingdom, Netherland, Germany, Italy and more).
- Trained >80 visiting scientists from >15 different countries.
- Recruited >25 graduate students as major advisor with full funding to support their research programs.
- Graduated 22 students (15 PhD and 7 MS) as major advisor and >45 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 45 graduate students (26 MS and 19 PhD).

- Trained >210 scholars from 15 countries across the world, some of them 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:

- Serving/served as President for international and local organizations (e.g., CSSA, Sigma-Xi, and Distinguished Professor Group).
- Served as chair and organized several symposiums at national and international conferences and workshops (e.g., ASA; CSSA; and USAID programs).
- Serving/served on editorial boards of 9 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 >500 manuscripts for >75 different international journals.
- Reviewed >100 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.
- Completed LEAD-21 Class X program (Leadership Program for Land Grant Universities).
- Completed FSLI – Cohort 13 program (Food Systems Leadership Institute).

XII. Impact of Research:

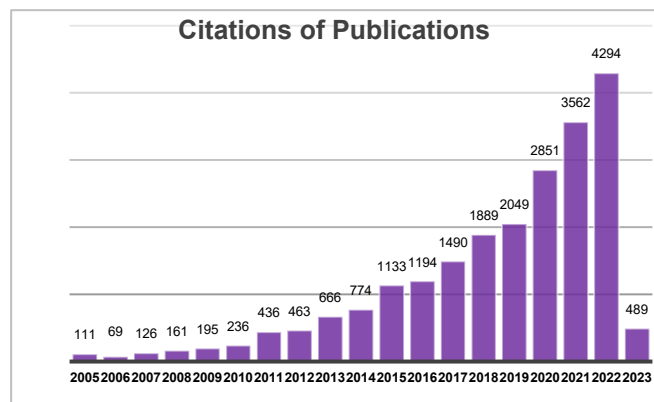
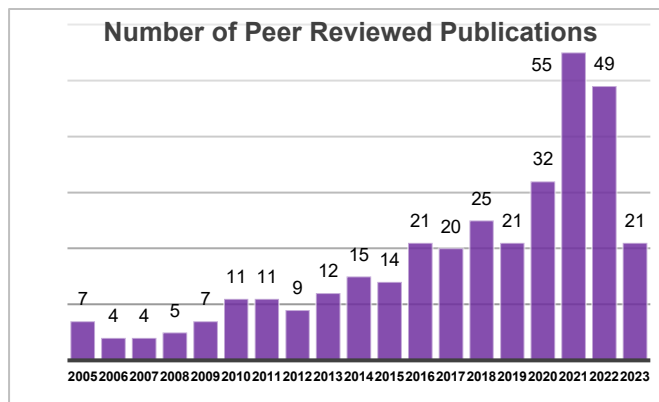
In addition to the direct impact of the research on producers and researchers, research impact is often measured by the number of citations of research articles published by an author.

Google Scholar: Total number of citations: >22,700; *h-index (Hirsch index): >78; **i-10-index:>235

*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.

Number of publications (journal articles and chapters) and citations from **January 2005 to January 2023**.



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>

XIII. Complete List of Publications:

Published: Journal Articles: >330; Book Chapters: >50; Abstracts: >285; Reports: >100; Presentations: >200 (Invited: >140)

Published Refereed Articles in International Journals (>325)

1. Perumal R, Tesso TT, Jagadish SVK, Kumar V, Aiken RM, Bean S, Smolensky D, Peiris KHS, **Prasad PVV**, Little CR. 2023. Registration of grain sorghum (A/B) and pollinator (R) parent lines for chilling and drought tolerance. *Journal of Plant Registrations* (In Press).
2. Yaquooob H, Tariq A, Bhat BA, Bhat KA, Raza A, Mir RA, Djalovic I, **Prasad PVV**. 2023. Integrating genomics and genome editing for orphan crop improvement: a bridge between orphan crop and modern agriculture system. *GM Crops and Food* 14: 1-20. <https://doi.org/10.1080/21645698.2022.2146952> (In Press).
3. Selladurai M, Pulivarthi MK, Raj AS, Iftikhar M, **Prasad PVV**, Siliveru K. 2023. Considerations for gluten free food – pearl and finger millet processing and market demand. *Grain and Oil Science and Technology* (In Press). <https://doi.org/10.1016/j.gaost.2022.11.003>
4. Fu J, Bowden RL, Jagadish SVK, **Prasad PVV**. 2023. Genetic variation for terminal heat stress tolerance in winter wheat. *Frontiers in Plant Sciences* 14: 1132108. <https://doi.org/10.3389/fpls.2023.1132108> (In Press).
5. Secchi MA, Fernandez JA, Stamm MJ, Durrett T, **Prasad PVV**, Messina CD, Ciampitti IA. 2023. Effect of heat and drought on canola (*Brassica napus* L.) yield, oil, and protein: a meta-analysis. *Field Crops Research* 293: 108848. <https://doi.org/10.1016/j.fcr.2023.108848>
6. Akley E, Rice CW, Ahiabor B, **Prasad PVV**. 2023. Bradyrhizobium inoculants impacts on promiscuous nodulating soybean cultivars in Ghana farming systems. *Agronomy Journal* (Online). <https://doi.org/10.1002/agj2.21273>
7. Raj AS, Siliveru K, McLean R, **Prasad PVV**, Lollato RP. 2023. Intensive management simultaneously reduces yield gaps and improves milling and baking properties of bread wheat. *Crop Science* (Online) <https://doi.org/10.1002/csc2.20906>
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3. Adari MD, Pandian BA, **Prasad PVV**, Jugulam M. 2022. Confirmation and characterization of ALS-inhibitor resistance in Japanese brome. North Central Weed Science Society of America, Annual Meeting, Dec 5 – 8, St. Louis, Missouri, USA.

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6. **Prasad PVV**. 2022. Climate smart agricultural practices – platform and examples. “*Circular Bioeconomy Systems for Urban-Rural Co-Prosperty*”, 30 November – 02 December, Buenos Aires, Argentina.
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13. **Prasad PVV**. 2022. Sustainable agricultural intensification – systems approach towards addressing food, nutrition and climate security. “*Climate Change and Food Security Workshop*”, 28 September, Indian Instituter of Soil and Water Conservation, Udthagamandalam, Tamil Nadu, India.
14. **Prasad PVV**. 2022. Current status of climate change and sustainable agricultural intensification – synthesis and analysis. “*Invited Seminar*”, 27 September, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India.
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21. **Prasad PVV**. 2022. Central goals of our disciplines and contributions – Crop Science Society of America, American Society of Agronomy, Soil Science Society of America. “*Building Interdisciplinary Collaborations to Transform Food and Agriculture into Circular Systems*”, 6 – 8 June, Kansas City,

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 23. **Prasad PVV**. 2022. Impact of high temperatures (heat) stress on wheat: the complete story – summary. *“Sustainable Global Wheat Production Under Climate Change”*, 9 May, University of Agriculture, Faisalabad, Pakistan.
 24. **Prasad PVV**. 2022. Improving abiotic stress tolerance and productivity of sorghum and millets: way forward. *“Millets – Way Forward”*, 29 April, Indian Institute Millet Research, Rajendranagar, Hyderabad, India.
 25. **Prasad PVV**. 2022. Impact of climate change factor on crops and opportunities to enhance resilience of agri-food systems. 15 April, Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar, Jammu and Kashmir, India.
 26. **Prasad PVV**. 2022. Kansas State University – Overview of College of Agriculture. Sher-e-Kashmir University of Agricultural Sciences and Technology, 13 April, Srinagar, Jammu and Kashmir, India.
 27. **Prasad PVV**. 2022. Sustainable agricultural practices to enhance productivity, nutrition and resilience of smallholder farmers under climate change: global perspective and examples. *“International Seminar”, Phytomics – The Botanical Society*, Bhaskaracharya College of Applied Science, 10 April, New Delhi, India.
 28. **Prasad PVV**. 2022. Feed the Future program and overview of Sustainable Intensification Innovation Lab. *“Agricultural Rural Development – Annual Meeting”*, 3 April, Atlanta, Georgia, USA.
 29. **Prasad PVV**. 2022. Sustainable agricultural intensification for food, nutrition and climate security – systems approach for a carbon neutral economy. *“Brainstorming Session on: Towards Carbon Neutrality in Farming – Implications”*, 15 March, Kerala Agricultural University, Thrissur, Kerala, India.
 30. **Prasad PVV**. 2022. Global climate change: role of crop ecophysiology in transdisciplinary research. *“Webinar on Food Production – Physiological Perspective”*, 10 March, Virtual, Jorhat, Assam, India.
 31. **Prasad PVV**. 2022. Climate smart agricultural practices to enhance productivity, nutrition and resilience of smallholder farmers: global perspective and examples. *National Online Training on Soil and Water Conservation Technologies for Climate Smart Agriculture in the Context of Extreme Events*, 24 Jan. – 04 Feb, Virtual, Udhamandalam, Tamil Nadu, India.
 32. **Prasad PVV**. 2022. Impact of climate change factors on crops and opportunities to enhance resilience of agri-food systems. *University of Florida Plant Science Symposium*, 26 Jan., Virtual, Gainesville, Florida, USA.
 33. **Prasad PVV**. 2021. Commission on sustainable agricultural intensification (Co-SAI) – USAID case study. *Research Community of Practice, Seminar – Bureau of Resilience and Food Security, United States Agency for International Development*, 15 Dec., Virtual, Washington DC, USA.
 34. **Prasad PVV**. 2021. Climate smart agricultural practices to enhance productivity, nutrition and resilience of agri-food systems. *National Conference of Plant Physiology on Frontiers in Plant Physiology for Climate Resilient Agriculture*, 09 – 11 Dec., Virtual, Baramati, Pune, Maharashtra, India.
 35. **Prasad PVV**. 2021. Sustainable agricultural intensification systems research: global perspectives and examples. *International Conference on Integrated Agriculture, Natural Farming, Biodiversity Conservation and Rural Bio-Entrepreneurship under Changing Climate Scenarios*. 7 – 9 Dec., Shillong, Meghalaya, India.
 36. **Prasad PVV**. 2021. Sustainable agricultural intensification to combat food security and climate security. *Fifth International Agronomy Congress on Agri-Innovations to Combat Food and Nutritional Challenges*, 23 – 27 Nov., Hyderabad, Telangana, India.
 37. Vaneestra RL, Messina CS, Berning D, Haag LA, Carter PR, Hefley T, **Prasad PVV**, Ciampitti IA. 2021. Yield impact of corn tillers: evaluating plasticity trait potential. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.

38. Middendorf BJ, Traore H, Middendorf G, Jha PK, Yonli D, Pale S, **Prasad PVV**. 2021. Impacts of COVID-19 pandemic on vegetable production systems and livelihoods: smallholder farmer experience in Burkina Faso. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
39. Jha PK, **Prasad PVV**, Stewart ZP, Jajoo A, Rajawat G. 2021. Sitooklit: a mobile application for sustainable intensification assessment framework in agriculture. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
40. Fernandez JA, Messina CD, Salinas A, **Prasad PVV**, Nippert J, Ciampitti IA. 2021. Kernel weight and kernel-filling parameters of US maize hybrids over a century of breeding. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
41. Demarco P, Mayor L, Messina CD, **Prasad PVV**, Morris GP, Ciampitti IA. 2021. Nitrogen internal efficiency improved over past six decades of US sorghum hybrids. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
42. Correndo AA, Tremblay N, Coulter JA, Ruiz Dias DA, Franzen DW, Nafziger E, **Prasad PVV**, Rosso LM, Steinke K, Du J, Messina CD, Ciampitti IA. 2021. Disentangling corn yield response to nitrogen with Bayesian and machine learning models. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
43. Singh H, Northup B, **Prasad PVV**. 2021. Productivity and water use in intensified forage-wheat cropping systems of the US Southern Great Plains. *Annual Meeting of ASA-CSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
44. Singh H, Northup B, Rice CW, **Prasad PVV**. 2021. Biochar applications influences soil physical and chemical properties, microbial diversity and crop productivity: a meta-analysis. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
45. Izaurralde RC, Jones CD, Varaprasad B, Chambers RG, Ochsner TE, Patrignani A, Rice CW, Ciampitti IA, Lambert D, Lollato RP, Northup B, Arnell DB, **Prasad PVV**, Warren JG. 2021. Whole-farm evaluation of productivity, resource use efficiency, and soil health. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
46. Akely EL, Ampim PAY, Hettiarachchi GM, Obeng E, **Prasad PVV**, Rice CW. 2021. Impact of tillage and cover cropping system on sorghum production and soil quality in Northern Ghana. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
47. Ostmeyer TJ, Hein N, Cook L, Asebedo AR, Dhillon R, **Prasad PVV**, Jagadish SVK. 2021. Grain sorghum yield and protein under split N application using aerial sensor technology. *Annual Meeting of ASA-CSSA-SSSA*, 7 – 10 Nov., Salt Lake City, Utah, USA.
48. **Prasad PVV**. 2021. Climate change impact on grain crops. *Advanced Plant Science Seminar Series, University of Manitoba*, 14 Oct., Winnipeg, Manitoba, Canada.
49. **Prasad PVV**. 2021. Sustainable agricultural systems research: impact on crops. *University and Industry Consortium, Fall 2021 International Conference*, 5 – 7 Oct., Saskatoon, Saskatchewan, Canada.
50. **Prasad PVV**. 2021. Climate resilient crops for abiotic stress tolerance and nutrition. *International Conference on Future Challenges and Prospects in Plant Breeding*, 6 – 7 Oct., Coimbatore, Tamil Nadu, India.
51. **Prasad PVV**. 2021. Sustainable agricultural intensification for food, nutrition and climate security. *International e-Conference on Applied Biosciences for Sustainable Development*. 3 – 4 Sep., Hyderabad, Telangana, India.
52. **Prasad PVV**. 2021. Sustainable agricultural intensification for global food security, nutritional security and climate resilience. *First International Conference on Life Sciences: Contemporary Approaches in Biological Sciences for Food, Health Nutrition Security and Conservation of Biodiversity*, 26 – 28 Aug., Chennai, Tamil Nadu, India.
53. **Prasad PVV**. 2021. Impact of climate change on productivity of food grain crops. *Celebrating Platinum Jubilee of Professor Jayashankar Telangana State Agricultural University, Lecture*, 22 Aug., Hyderabad, Telangana, India.
54. **Prasad PVV**. 2021. Sustainable agricultural intensification for improving food security and climate resilience. *Celebrating 75 Years of India's Independence: Azadi Ka Amrut Mahotsav. Lecture*. 13 Aug.,

New Delhi, India.

55. **Prasad PVV**. 2021. Agri-food systems: Advancing circular systems and convergence science. *American Society of Agricultural and Biological Engineering Annual Meeting*, 12 – 16 Jul., Virtual, USA.
56. **Prasad PVV**. 2021. Innovations in sustainable agricultural intensification to address climate change, food security, nutritional and resilience. *Tri-Society (Canadian Society of Agronomy; Canadian Society of Horticultural Sciences; and Canadian Phytopathological Society) Virtual Conference on Innovations in Plant Science and Agricultural Resilience*, 5 – 9 Jul., Virtual, Canada.
57. **Prasad PVV**. 2021. Response of food grain crops to climate change factors. *International Symposium on Advances in Plant Biotechnology and Genome Editing: 42nd Annual Meeting of Plant Tissue Culture Association*, 8 – 10 April, Ranchi, Jharkhand, India.
58. **Prasad PVV**. 2021. Impact of high temperature stress on crops: case study of wheat – complete summary. *International Webinar on Translating Physiological Tools to Augment Crop Breeding*, 19 March, Karnal, Haryana, India.
59. **Prasad PVV**. 2021. Modeling climate change impact on crop production and food security: experiments and crop simulation models. *International Plant Physiology Virtual Symposium on Physiological Interventions for Climate Smart Agriculture*, 11 March, Coimbatore, Tamil Nadu, India.
60. **Prasad PVV**. 2021. Opportunities to improve water productivity to enhance crop yields in the semi-arid tropics: focused on smallholder farmers and peri-urban vegetable gardens. *Water and Waste Management – 3rd International Conference and Expo*, 24 – 26 February, India.
61. **Prasad PVV**. 2020. Sustainable intensification research approaches for impact: case studies from Africa and Asia. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
62. Dixon J, **Prasad PVV**, Stewart ZP. 2020. Sustainable and resilient intensification of farming systems across Asia in a post-COVID-19 era. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
63. Middendorf BJ, Faye A, Middendorf G, Stewart ZP, Jha PK, **Prasad PVV**. 2020. Smallholder farmer perceptions about the impact of COVID-19 on agriculture and livelihoods of Senegal. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
64. Rice CW, **Prasad PVV**, Ciampitti IA. 2020. Challenges and opportunities for improving dryland farming systems. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
65. Jha PK, Ines AVM, **Prasad PVV**. 2020. Estimation and validation of remotely sensed evapotranspiration for the development of crop coefficients and irrigation scheduling for maize. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
66. Jha PK, Araya A, Stewart ZP, Faye A, Traore H, Middendorf BJ, **Prasad PVV**. 2020. Projecting potential impact of COVID-19 on major cereal crops in Senegal and Burkina Faso using crop simulation models. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
67. Araya A, **Prasad PVV**, Ciampitti IA, Rice CW. 2020. Projected impact of climate change and management practices on wheat yields in northern Ethiopia using a crop simulation model. *Virtual Annual Meeting of ASA-CSSA-SSSA*, 9 – 13 Nov., Virtual, USA.
68. **Prasad PVV**. 2020. Impacts and approaches to improve high temperature stress tolerance in crops. *International Colloquium on Crop Physiology*, 26 – 27 Nov., Virtual, Coimbatore, Tamil Nadu, India.
69. **Prasad PVV**. 2020. Sustainable intensification: holistic and systems approach to address climate change and food security. *Vaishwik Bharatiya Vaigyanik Summit – working group on Climate Change Impacts, Adaptation and Mitigation Technologies (Agro Economy and Food Security)*, 08 Oct., Virtual, New Delhi, India.
70. **Prasad PVV**. 2020. Humanity at crossroads with wicked problems of global pandemics, climate change and food security. *Professor Jayashankar Telangana State Agricultural University 6th Foundation Day*, 3 Sep., Virtual, Hyderabad, Telangana, India.
71. **Prasad PVV**. 2020. Focus on sustainable agricultural intensification and small-scale agriculture for achieving zero hunger. *Achieving Zero Hunger by 2030 – Critical Role of Agriculture and Allied Sector*, 21 Aug., Virtual, Srinagar, Kashmir, India.

72. **Prasad PVV**. 2020. Impacts of climate change factors on productivity of food grain crops and potential key traits. *International Lecture Series on Physiological Approaches for Enhancing the Crop Productivity Under Climate Change*, 13 March, Coimbatore, Tamil Nadu, India.
73. **Prasad PVV**. 2020. Sustainable intensification for food and nutritional security: global problems and local solutions. *International Workshop – National Agricultural Higher Education Projects*, 12 March, Coimbatore, Tamil Nadu, India.
74. Stewart ZP, Djanaguiraman, M, **Prasad PVV**. 2019. The contentious nature connecting soil, plant and grain nutrients status for a modified one health approach. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
75. Veenstra RL, Messina CD, Haag LA, **Prasad PVV**, Ciampitti IA. 2019. Water-limited corn yields as influenced by tiller biomass and leaf area at varying planting densities. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
76. Demarco P, Mayor La, Tamagno S, Fernandez JA, **Prasad PVV**, Rotundo JL, Messina CD, Ciampitti IA. 2019. Physiological changes across historical sorghum hybrids released between 1963 and 2013. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
77. Lacasa J, Schwalbert R, Carter PR, Hinds M, Jeschke M, Gasper A, Berning D, **Prasad PVV**, Otegui ME, Ciampitti IA. 2019. Corn yield response to planting density: a Bayesian approach. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
78. Barnhart I, **Prasad PVV**, Ciampitti IA. 2019. Characterizing grain sorghum senescence patterns using unmanned aviation and high-resolution multispectral imaging. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
79. Nieto L, Ciampitti IA, Schalbert, Olsen B, **Prasad PVV**. 2019. Deep neural network for corn phenology prediction. *Annual Meeting of ASA-CSSA*, 10 – 13 Nov., San Antonio, TX, USA.
80. Ortez O, Tamagno S, Salvagiotti F, **Prasad PVV**, Ciampitti IA. 2019. Soybean nitrogen sources and demand during seed-filling period. *Annual Meeting of ASA-CSSA-SSSA*, 10 – 13 Nov., San Antonio, TX, USA.
81. **Prasad PVV**. Middendorf BJ, Reyes MR. 2019. Global challenges and local solutions: Sustainable Intensification Innovation Lab – overview. *International Soil Water Assessment Tool (SWAT) Conference*, 24 – 25 October, Siem Reap, Cambodia.
82. **Prasad PVV**. 2019. Response of food grain crops to changing environment: experiments and use of crop simulation model (DSSAT). *International Soil Water Assessment Tool (SWAT) Conference*, 24 – 25 October, Siem Reap, Cambodia.
83. **Prasad PVV**. 2019. Global challenges and local solutions: sustainable intensification for food and nutritional security. *SEARCA Agriculture and Development Seminar, University of Philippines*, 2 August, Los Banos, Philippines.
84. **Prasad PVV**. 2019. Physiology of reproductive development in plants under stress: high temperature stress on vegetable and grain crops. *XVII International Vegetable Physiology*, 9 – 12 June, Cuiaba, Brazil.
85. **Prasad PVV**. 2019. Global challenges and local solutions: sustainable intensification for food and nutritional security. *Plant Stress Biology and Food Security Workshop, International Center for Genetic Engineering and Biotechnology*, 18 -20 April, New Delhi, India.
86. **Prasad PVV**. 2019. Abiotic stress tolerance and sustainable agricultural intensification to enhance global food and nutritional security. *Sensing and Signaling in Plant Stress Response - India – EMBO Symposium. Jawaharlal Nehru University; and International Center for Genetic Engineering and Biotechnology*, 15-17 April, New Delhi, India.
87. **Prasad PVV**. 2019. Sustainable Intensification Innovation Lab's Soils Vision: Launch on SOILS Consortium. *Annual Meeting of SSSA*, 6 – 9 Jan., San Diego, CA, USA.
88. **Prasad PVV**. 2018. Concepts of sustainable intensification for improved food and nutritional security. *International Conference on Climate Change, Biodiversity and Sustainable Agriculture*, 13 – 16 December, Jorhat, Assam, India.

89. **Prasad PVV**. 2018. Impact of climate change factors on productivity of food grain crops. *4th International Plant Physiology Congress*, 2 – 5 December, Lucknow, India.
90. Djanaguiraman M, **Prasad PVV**, Kumari J, Rengel Z. Drought tolerance mechanisms of winter- and spring wheat genotypes associated with root length, lipid composition, and lipid saturation levels. *4th International Plant Physiology Congress*, 2 – 5 December, Lucknow, India.
91. Araya A, Gowda PH, **Prasad PVV**, Sharda V, Kisekka I, Andales A. 2018. Assessing corn (*Zea mays*) yield and water productivities as affected by irrigation frequency under variable allowable soil water irrigation triggers. *Ogallala Water Annual Meeting*, 29 November, Santa Fe, New Mexico, USA.
92. **Prasad PVV**. 2018. Role of land grant and public universities in addressing global food and nutritional security: approaches to enhance excellence in research, education, learning and grantsmanship. *Indian Agricultural Universities Association Gold Jubilee International Conference: Agricultural Education – Sharing Global Experiences*, 25 November, New Delhi, India.
93. Stewart ZP, Faye A, Ganyo DK, Diome K, Pierzynski GM, **Prasad PVV**. 2018. Improving soil organic carbon and fertility in Senegal with biochar. *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
94. Pierzynski GM, Stewart ZP, **Prasad PVV**, Middendorf BJ, Vipham JL. 2018. Prioritizing biophysical and socioeconomic factors enhancing soil fertility in sub-saharan Africa. *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
95. Stewart ZP, Pierzynski GM, Middendorf BJ, **Prasad PVV**. 2018. Prioritizing biophysical and socioeconomic factors for enhancing soil fertility in sub-saharan Africa – survey and summit results *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
96. Pierzynski GM, Stewart ZP, **Prasad PVV**, Vipham JL, Middendorf BJ. 2018. Healthy soils, healthy plants, healthy people: micronutrients. *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
97. Middendorf BJ, **Prasad PVV**, Pierzynski GM. 2018. Participatory techniques to enhance international stakeholder engagement in research development. *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
98. Narayanan S, **Prasad PVV**, Welti R. 2018. Effect of high temperature stress on wheat lipidome during dark period of diurnal cycle. *Annual Meeting of ASA-CSSA*, 04 – 07 Nov., Baltimore, MD, USA.
99. **Prasad PVV**, Djanaguiraman M, Stewart ZP, Araya A, Reyes M. 2018. Opportunities to improve water productivity to enhance crop yields and resilience of farming systems in semi-arid tropics. *Global Water Security Conference for Agricultural and Natural Resources*, 3 – 6 October, Hyderabad, India. University of Kansas, Posdoc Research Day, 14 September, Lawrence, Kansas, USA.
100. Djanaguiraman M, **Prasad PVV**. 2018. Selenium nanoparticles decreases high temperature induced oxidative damage in sorghum leading to higher photosynthesis and grain yield.
101. Stewart ZP, Pierzynski GM, Middendorf BJ, **Prasad PVV**. 2018. Prioritizing biophysical and socioeconomic factors for enhancing soil fertility in sub-saharan Africa – survey results *21st World Congress of Soil Sciences*, 14 – 16 Aug., Rio de Janeiro, Brazil.
102. Stewart ZP, Pierzynski GM, Middendorf BJ, **Prasad PVV**. 2018. Prioritizing biophysical and socioeconomic factors for enhancing soil fertility in sub-saharan Africa – summit results *21st World Congress of Soil Sciences*, 14 – 16 Aug., Rio de Janeiro, Brazil.
103. Lwehabura J, Stewart ZP, Rubyogo JC, **Prasad PVV**, Ghosh A, Mason N, Snapp S, Uyole A. 2018. Geospatial analysis to spur technology adoption for increasing bean productivity in Tanzania. *Foss4G Conference*, 29 August, Dar es Salaam, Tanzania.
104. Narayanan S, Welti R, **Prasad PVV**. 2018. Alterations in wheat leaf and pollen lipidomes under high temperature stress. *Annual Congress in Plant Science and Biosecurity Conference*, 12-14 July, Valencia, Spain.
105. Faye A, Stewart ZP, **Prasad PVV**. 2018. Closing Senegal's millet yield gap through site-specific fertilizer and plant population recommendations modeled across precipitation and soil fertility gradients. *International Sustainable Agricultural Intensification and Nutrition Conference*, 11 Jan, Phnom Penh, Cambodia.

106. Traore H, Barro A, Yonli D, Stewart ZP, **Prasad PVV**. 2018. Evaluation of integrated soil, water, nutrient and crop management for improving sorghum yield in central Burkina Faso. *International Sustainable Agricultural Intensification and Nutrition Conference*, 11 Jan. Phnom Penh, Cambodia.
107. Lwehabura J, Stewart ZP, Rubyogo JC, **Prasad PVV**, Ghosh A, Mason N, Snapp S, and Uyole A. 2018. Increasing technology adoption and scaling through mother-baby trials paired with geospatial analysis of enabling biophysical and socioeconomic conditions. *International Sustainable Agricultural Intensification and Nutrition Conference*, 11 January, Phnom Penh, Cambodia.
108. **Prasad PVV**. 2017. Sustainable intensification for improved food and nutritional security of smallholder farmers in Africa. *University of Western Australia Seminar Series*, 27 Nov., The University of Western Australia, Perth, Australia.
109. **Prasad PVV**, Dixon J. 2017. Systems approaches for sustainable intensification: lessons learned and opportunities. *TropAg*, 20 – 22 Nov., Brisbane, Queensland, Australia.
110. Bheemanahalli R, Hechanova S, Jena KK, **Prasad PVV**, Jagadish SVK. 2017. Root-leaf continuum traits to improve resilience of rice to water deficit. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
111. Shetty NJ, Somayanda, IM, **Prasad PVV**, Jagadish SVK. 2017. Mechanistic basis for high night temperature induced carbon imbalance and yield loss in winter wheat. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
112. Chilawal A, Kanaganahalli V, Perumal R, **Prasad PVV**, Jagadish SVK. 2017. Unraveling mechanisms inducing heat stress resilience in sorghum during flowering. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
113. Shetty NJ, Somayananda IM, Bheemanahalli R, Fritz A, **Prasad PVV**, Jagadish SVK. 2017. Water deficit stress induced root morphological and anatomical plasticity in *Triticum dicocoides*. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
114. Chilawal A, Bheemanahalli R, Asebedo R, Shetty N, Perumal R, **Prasad PVV**, Jagadish SVK. 2017. Cold stress resilience at early seedling sorghum determined by integrating aerial imagery and destructive phenotyping. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
115. Akley EK, Ahiabor BDK, Rice CW, Teye JK, **Prasad PVV**. 2017. Impact of integrated application of fertilizer and compost on soil quality and yield in norther Ghana's cropping systems. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
116. Akley EK, Rice CW, Ahiabor BDK, **Prasad PVV**. 2017. Rhizosphere microbial community structure of promiscuous soybean cultivars in the Guinea Savanna zone of Ghana. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
117. Bheemanahalli R, Sunoj VSJ, Saripalli S, **Prasad PVV**, Gill KS, Jagadish SVK. 2017. Effect of heat stress on reproductive success and grain yield in spring wheat. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
118. Chilawal A, Bheemanahalli R, Asebedo R, Shetty N, Perumal R, **Prasad PVV**, Jagadish SVK. 2017. Cold stress resilience at early seedling in sorghum determined by integrating aerial imagery and destructive phenotyping. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
119. Pierzynski GM, **Prasad PVV**, Stewart ZP, Vipham J, Middendorf JB. 2017. Soil chemistry and agronomic biofortification for improved human health. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
120. Pierzynski GM, **Prasad PVV**, Stewart ZP, Vipham J, Middendorf JB. 2017. Soil chemistry, food security and human health: Overview. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
121. **Prasad PVV**, Middendorf JB, Stewart ZP, Pierzynski GM. 2017. Accelerating increases in sustainable agricultural productivity. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
122. **Prasad PVV**. 2017. Responses of food grain crops to changing environments. *Annual Meeting of ASA-CSSA-SSSA*, 22 – 25 Oct., Tampa, Florida, USA.
123. **Prasad PVV**, Djanaguiraman M, Rengel Z, Siddique KHM. 2017. Roots traits for enhancing drought tolerance in wheat: genetic diversity and mechanisms. *International Conference on Roots and*

- Rhizosphere Interactions*, 9-13 October, Yangling, China.
124. **Prasad PVV**. 2017. Overview of feed the future innovation labs, strategic partnerships and future opportunities. *3rd World University Network Workshop – Climate Resilient Open Partnership for Food Security Annual Meeting*, 7 – 8 October, Amherst, Massachusetts, USA.
 125. **Prasad PVV**. 2017. Impact of high temperature stress on horticultural crops: case study of tomato and pepper. *Food and Agricultural Organization*, 26 July, Rome, Italy.
 126. Djanaguiraman M, Belliraj N, Bossmann SH, **Prasad PVV**. 2017. Biological effects of selenium nanoparticles on grain sorghum growth under high temperature stress. *International Conference on Biogeochemistry of Trace Elements*, 16-20 July, Zurich, Switzerland.
 127. Djanaguiraman M, Vimala K, **Prasad PVV**. 2017. Variation in sorghum germplasm for micronutrients in grain: potential for biofortification. *International Conference on Biogeochemistry of Trace Elements*, 16-20 July, Zurich, Switzerland.
 128. Pierzynski GM, **Prasad PVV**, Stewart ZP, Vipham J, Middendorf JB. 2017. Sustainable intensification for meeting human micronutrients needs. *International Conference on Biogeochemistry of Trace Elements*, 16-20 July, Zurich, Switzerland.
 129. **Prasad PVV**, Pierzynski GM, Stewart ZP, Vipham J, Djanaguiraman M, Middendorf JB. 2017. Role of sustainable intensification for food and nutritional security: opportunities and linkages. *N-8, AgriFood Sustainable Food Production Conference*, 11-13 July, Durham, UK.
 130. **Prasad PVV**. 2016. Sustainable intensification for improved food and nutritional security of smallholder farmers in Africa. *Norman E Borlaug Institute for International Agricultural Seminar Series*, 2 Dec., Texas A & M University, College Station, Texas, USA.
 131. **Prasad PVV**, Djanaguiraman M, Schapaugh WT, Nguyen HT, Fritschi F, Nayyar H, Siddique KHM. 2017. Impact of high temperature stress on pulses and legumes: case study of mung bean and soybean. *World University Network Symposium cum Research Summit on Impacts of Grain Legume Research and Development in Developing Countries*, 8 – 17 June, Hong Kong, China, USA.
 132. Somayananda IM, John Sunoj VS, Sun A, **Prasad PVV**, Jagadish SVK. 2016. High night temperature induced alterations in post flowering carbon balance and its impact on yield in winter wheat. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 133. Anuj C, Kanaganahalli V, John Sunoj VS, Sun A, Somayananda IM, Jagadish SVK, **Prasad PVV**. 2016. Is sorghum truly tolerant or an efficient escaper of heat stress during flowering? *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 134. Narayanan S, Welti R, **Prasad PVV**. 2016. Effect of high temperature stress on pollen lipid profile of wheat. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 135. Wang H, Lorence A, Newsum A, **Prasad PVV**, Asebedo R. 2016. Comparison of modified camera, multispectral camera and active optical sensor in estimating in-season biomass and grain yield in winter wheat. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 136. Wang H, Newsum A, Asebedo R, **Prasad PVV**. 2016. 2D orthomosaic and 3D modeling application in winter wheat high-throughput phenotyping. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 137. **Prasad PVV**. 2016. Impacts of extreme temperature and drought on yield of food crops: data and opportunities for modeling. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 138. **Prasad PVV**, Jagadish SVK. 2016. State of the art in stress physiology: current understanding and future opportunities. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
 139. John Sunoj SV, Somayananda IM, Chiluwal A, **Prasad PVV**, Perumal R, Jagadish SVK. 2016. Impact of heat stress on pollen germination and post flowering responses in diverse sorghum genotypes under field conditions. *Annual Meeting of ASA-CSSA-SSSA*, 6 – 9 Nov., Phoenix, Arizona, USA.
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259. Opole R, **Prasad PVV**, Staggenborg SA, Roozeboom KL. 2010. Effect of seeding rate and nitrogen fertilizer application rate on field performance of finger millet. *Annual Meeting of American Society of Agronomy*, 31 Oct. – 03 Nov., Long Beach, California, USA.
260. Opole R, **Prasad PVV**, Staggenborg SA, Roozeboom KL, Kirkham MB. 2010. Growth and management of finger millet in Kansas. *27th Sorghum Research and Utilization Conference and the Great Plains Sorghum Research Conference*, 11 – 12 August, University of Nebraska-Lincoln Agricultural Research and Development Center, Mead, Nebraska, USA.
261. Paul G, **Prasad PVV**, Staggenborg SA, Gowda PH. 2010. Climate change impact assessment and mitigation strategies: crop modeling using regional climate model data. *Kansas NSF EPSCoR State wide Conference; Energy, Climate, and the Future: The Role of Kansas*, Oct. 4, University of Kansas, Lawrence, Kansas, USA.
262. Paul G, Gowda PH, **Prasad PVV**, Howell TA, Staggenborg SA. 2010. An evaluation of SEBAL algorithm using high resolution aircraft data acquired during BEAREX07. *American Geophysical Union Fall Meeting*, 13 – 17 December, San Francisco, California, USA.
263. Subramanian SK, **Prasad PVV**, Staggenborg SA, Yu J, Vadlani PV. 2010. Effect of different harvest time on sugar and juice yield of sweet sorghum. *Center for Sustainable Energy Annual Meeting*, 6 May, Kansas State University, Manhattan, Kansas, USA.
264. Subramanian SK, **Prasad PVV**, Staggenborg SA, Yu J, Vadlani PV. 2010. Effect of different harvest

- time on sugar and juice yield of sweet sorghum. *27th Sorghum Research and Utilization Conference and the Great Plains Sorghum Research Conference*, 11 – 12 August, University of Nebraska-Lincoln Agricultural Research and Development Center, Mead, Nebraska, USA.
265. Narayanan S, Aiken RM, Xin Z, **Prasad PVV**, Kofoid KD, Yu J. 2010. Canopy architecture and transpiration efficiency in grain sorghum. *27th Sorghum Research and Utilization Conference and the Great Plains Sorghum Research Conference*, 11 – 12 August, University of Nebraska-Lincoln Agricultural Research and Development Center, Mead, Nebraska, USA.
266. Narayanan S, Aiken RM, Xin Z, **Prasad PVV**, Kofoid KD, Yu J. 2010. Canopy architecture and transpiration efficiency in grain sorghum. *Annual Meeting of American Society of Agronomy*, 31 Oct. – 03 Nov., Long Beach, California, USA.
267. **Prasad PVV**, Pisipati SR, Momcilovic I, Ristic Z. 2009. Interaction of high temperature and drought stress on physiology and plant yield of spring wheat. *Annual Meeting of American Society of Plant Biology*, 18 – 22 July, Honolulu, Hawaii, USA.
268. Djanaguiraman M, **Prasad PVV**, Al-Khatib K. 2009. Effect of selenium on leaf senescence of sorghum grown under high temperature stress. *Annual Meeting of American Society of Agronomy*, 1 – 5 November, Pittsburgh, Pennsylvania, USA.
269. Djanaguiraman M, **Prasad PVV**, Al-Khatib K. 2009. Effect of 1-Methyl-cyclopropene on soybean flower and pod abortion under heat Stress. *International Symposium on Plant Hormone Ethylene*, June 21 – 25, 2009. Ithaca, New York, USA.
270. Mutava RN, **Prasad PVV**, Kofoid KD, Tuinstra MR, Yu J. 2009. Evaluating of genetic resources for drought tolerance in grain sorghum. *Great Plains Sorghum Conference*, August 11 – 12, 2009, Amarillo, Texas, USA.
271. Subramanian S, **Prasad PVV**, Staggenborg SA, Yu J, Vadlani PV. 2009. Effect of water stress during early seed-filling (milking) on sugar and juice volume of sweet sorghum genotypes in controlled environments. *Great Plains Sorghum Conference*, August 11 – 12, 2009, Amarillo, Texas, USA.
272. Subramanian S, **Prasad PVV**, Staggenborg SA, Yu J, Vadlani PV. 2009. Evaluation of sweet sorghum germplasm for traits associated with improved sugar yield. *Center for Sustainability Energy Annual Conference*, May 05, 2009, Manhattan, Kansas, USA.
273. Sukumaran S, Wu Y, Mutava RN, **Prasad PVV**, Bai G, Tuinstra MR, Tesso T, Yu J. 2009. Genomic mapping for drought tolerance in sorghum. *Annual Meeting of American Society of Agronomy*, 1 – 5 November, Pittsburgh, Pennsylvania, USA.
274. Boote KJ, Allen LH Jr, **Prasad PVV**. 2009. Testing effects of climate change in crop models. *Annual Meeting of American Society of Agronomy*, 1 – 5 November, Pittsburgh, Pennsylvania, USA.
275. **Prasad PVV**, Vadlani PV, Najundaswamy AK, Madl RL. 2008. Carbohydrate and ethanol production efficiency of grain sorghum. *Annual Meeting of American Society of Agronomy*, 3 – 9 October, Houston, Texas, USA.
276. **Prasad PVV**, Stamm M, Godsey C. 2008. Impact of high temperature and drought stress on physiology and re-growth of winter canola. *Annual Meeting of American Society of Agronomy*, 3 – 9 October, Houston, Texas, USA.
277. Gowda PH, Howell TA, **Prasad PVV**. 2008. Finger millet: An alternative forage crop for Southern High Plains. *Annual Meeting of American Society of Agronomy*, 3 – 9 October, Houston, Texas, USA.
278. Allen LH Jr., Boote KJ, **Prasad PVV**. 2008. Impact of a 4.5-degree C increase of temperature and elevated carbon dioxide on MG II, III and IV cultivars of soybean. *Annual Meeting of American Society of Agronomy*, 3 – 9 October, Houston, Texas, USA.
279. **Prasad PVV**, Pisipati S, Nagiseti G, Kirkham MB, Reddi LN. 2007. Application of metal oxide nanoparticles for phytostabilization of heavy metals in soil. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
280. **Prasad PVV**, Mutava R, Pisipati S, Tuinstra MR. 2007. Sensitivity of grain sorghum to short episodes of drought and/or high temperature stress. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.

281. Mutava R, **Prasad PVV**, Tuinstra MR. 2007. Feasibility of using a chlorophyll fluorescence assay as a tool for screening the stay green trait in sorghum. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
282. Mutava R, **Prasad PVV**, Vos RJ. 2007. Genetic variation in germination rates and percentages of grain amaranth in response to temperature. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
283. Pisipati S, **Prasad PVV**, Kirkham MB, Rice CW. 2007. Influence of metal oxide nanoparticles on physiology, growth and yield of wheat. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
284. Pisipati S, **Prasad PVV**, Fritz AK, Ristic Z. 2007. Responses of spring wheat to high nighttime temperature during reproductive development. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
285. Subramanian S, **Prasad PVV**, Jeannotte R, Tuinstra MR. 2007. Physiological and biochemical responses of grain sorghum to foliar application of Glycine betaine under drought stress. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
286. Walker L, Schapaugh W, **Prasad PVV**. 2007. Genetic variability in heat tolerance of pollen germination in soybean. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
287. White P, Burton C, **Prasad PVV**, Rice CW. 2007. Effects of MgO and CuO nanoparticles on soil microbes and N cycling. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
288. Indraratne SP, Pierzynski GM, Baker L, **Prasad PVV**. 2007. Stabilization of heavy metals using nanoscale Fe-, Al- and Ti-Oxides. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
289. Aiken RM, Xin Z, Kofoed KD, Kirkham MB, **Prasad PVV**. 2007. Parsing components of transpiration efficiency in sorghum. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
290. White J, Hoogenboom G, Huda AKS, Kimball BA, Ottman M, **Prasad PVV**, Rosenthal W, Sanon M, Staggenborg SA, Traore S, Vaksman M, Vanderlip RL. 2007. Recent advances in CMS-CERES Sorghum model. Abstracts. *Annual Meeting of American Society of Agronomy*, 4 – 8 November, New Orleans, Louisiana, USA.
291. **Prasad PVV**, Pisipati S, Nagiseti G, Kirkham MB, Reddi LN, Mulukutla R. 2007. Use of nanoparticles for phytoremediation of heavy metal contaminated soils. *International Conference on Nanotechnology: Science and Application – Nano Tech Insight*, 10 – 17 March 2007, Luxor, Egypt.
292. **Prasad PVV**, Boote KJ, Allen LH Jr., Thomas, JMG. 2006. Screening rice cultivars for high temperature tolerance. *Annual Meeting of American Society of Agronomy*, 12 – 16 Nov., Indianapolis, Indiana, USA.
293. Jain M, Funk A, **Prasad PVV**, Allen LH Jr, Boote KJ, Chourey PS. 2006. Impact of high temperature stress on carbohydrate metabolism in developing microspores of grain sorghum. *Annual Meeting of American Society of Agronomy*, 12 – 16 November, Indianapolis, Indiana, USA.
294. Naab JB, Boote KJ, **Prasad PVV**, Jones JW. 2006. Influence of fungicide and sowing density on growth and yield of two peanut cultivars. *Annual Meeting of American Peanut Research and Education Society*, 11 – 14 July, Savannah, Georgia, USA.
295. 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.
296. 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.
297. 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.

298. 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.
299. 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.
300. **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.
301. **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.
302. **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.
303. 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.
304. **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.
305. 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.
306. 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.
307. **Prasad PVV**, Vu JCV, Boote KJ, Allen LH Jr. 2005. Enhancement in leaf photosynthesis and up-regulation 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.
308. Jain M, **Prasad PVV**, Allen LH Jr, Boote KJ, Chourey PS. 2005. Gene expression analyses of sucrose-to-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.
309. 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.
310. **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.
311. 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.
312. 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.

313. **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.
314. **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.
315. Naab JB, Tsigbey F, **Prasad PVV**, Boote KJ, Bailey JE, Brandenburg 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.
316. 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.
317. **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.
318. 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.
319. **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.
320. 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.
321. 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.
322. **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.
323. **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.
324. 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.
325. 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.
326. **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.
327. 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.
328. **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.

329. **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.
330. 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.
331. 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.
332. **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.
333. **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.
334. **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.
335. **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.
336. **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.
337. **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.
338. **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 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: ~ 120 million (~ 90 million as Principal Investigator)

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); (Five Years)

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

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

Year 2017: \$ 507,672 (6 grants, 1 as PI); + \$ 8,000,000 (Donation)

Year 2018: \$ 430,000 (6 grants, 2 as PI);

Year 2019: \$ 26,848,071 (12 grants, 6 as PI); (Five Years)

Year 2020: \$ 1,256,000 (8 grants, 2 as PI)

Year 2021: \$ 17,374,859 (7 grants, 3 as PI); (12,000,000; Five Years)

Year 2022: \$ 5,016,130 (7 grants, 5 as PI)

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 pre-flowering drought stress. USDA – CSREES: Ogallala Initiative. Amount: 20,000.
7. **Prasad PVV**. 2006. Faculty development awards. Multiple Sources. Amount: 2,000.

Year 2007

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.
12. **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).
13. **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.

Year 2008

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).

Year 2010

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.

Year 2011

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.

Year 2012

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.

Year 2013

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.

Year 2014

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).

Year 2015

126. Jagadish SVK, Fritz AK, **Prasad PVV**. 2015. Strategies to develop wheat genotypes to beat post-flowering 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 post-flowering 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.
138. 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.

Year 2017

140. **Prasad PVV**, Pierzynski GM, Stewart Z, Middendorf BJ. 2017. Sustainable Soil Fertility Prioritization for Sub-Saharan Africa. International Fertilizer Development Center. Amount: \$200,000.
141. **Prasad PVV**, Pierzynski GM, Stewart Z, Middendorf BJ. 2017. Research Uptake Study. USAID. Amount: \$346,831.
142. **Prasad PVV**, Pierzynski GM, Lilja N. 2017. Center for Sustainable Agricultural Intensification and Nutrition. USAID – Cambodia – Mission. Amount: \$500,000.
143. 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.
144. Jagadish SVK, Fritz AK, **Prasad PVV**. 2017. Strategies to develop wheat genotypes to beat post-flowering heat and drought stress. Kansas Wheat Commission. Amount: \$45,000.
145. Jugulam M, **Prasad PVV**, Thompson C. 2017. Evaluation of sorghum genotypes for herbicide tolerance. Kansas Grain Sorghum Commission. Amount: \$30,000.

146. 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.
147. Ciampitti IA, et al. **Prasad PVV**. 2017. Crop management decision guiding website and mobile app. Kansas Corn Commission. Amount: \$39,350.
148. KSU – Foundation, **Prasad PVV**, Pierzynski GM, Flores J, Minton EJ, Gillen B. 2017. College of Agriculture, Harold and Olympia Lonsinger Sustainability Research Farm. Land Donation (2300 Acres). Value: \$8,000,000.

Year 2018

149. **Prasad PVV**, Pierzynski GM, Stewart Z, Middendorf BJ. 2018. Sustainable Opportunities for Improving Livelihoods with Soils (SOILS) Consortium. International Fertilizer Development Center. Amount: \$200,000.
150. **Prasad PVV**, Pierzynski GM, Lilja N. 2018. Center for Sustainable Agricultural Intensification and Nutrition. USAID – Cambodia – Mission. Amount: \$500,000.
151. **Prasad PVV**, Reyes M, Stewart Z. 2018. Developing a highly productive and sustainable conservation agriculture production system for Cambodia and Myanmar. International Fertilizer Development Center. Amount: \$100,000.
152. **Prasad PVV**, Lilja N. 2018. Policy Research Consortium. USAID. Amount: \$2,100,000.
153. Middendorf BJ, **Prasad PVV**, Shuman C. 2018. International network-to-network (N2N) stakeholder collaboration workshop: solutions to accelerate research, leverage resources, and maximize synergies. National Science Foundation. Amount: \$100,000.
154. Reyes M, **Prasad PVV**. 2018. Center of Excellence – Reasmeay Sophornna High School Undergraduate Scholarship - Cambodia. United Service Foundation Amount: \$10,000.
155. Reyes M, **Prasad PVV**. 2018. Promoting the adoption of conservation agriculture with trees in Guatemala. United Service Foundation Amount: \$15,000.
156. Stewart Z, **Prasad PVV**, Reyes M. 2018. CE SAIN Scholars: Increasing opportunities for Cambodian youth to pursue careers in agricultural extension. Epsilon Sigma Phi. Amount: \$5,000.

Year 2019

157. **Prasad PVV**, Lilja N. 2019. Center for Sustainable Agricultural Intensification and Nutrition. USAID – Cambodia – Mission. Amount: \$500,000.
158. **Prasad PVV**, Stewart Z, Middendorf BJ. 2019. Sustainable Opportunities for Improving Livelihoods with Soils (SOILS) Consortium. International Fertilizer Development Center. Amount: \$200,000.
159. **Prasad PVV**, Lilja N. 2019. Policy Research Consortium. USAID. Amount: \$800,000.
160. **Prasad PVV**, Stewart Z. 2019. Sustainable Opportunities for Improving Livelihoods with Soils (SOILS) Consortium. IFDC. Amount: \$100,000.
161. **Prasad PVV**, Middendorf BJ. 2019. Capacity Building Grant from Acharya N.G. Ranga Agricultural University (India). ICAR. Amount: \$180,180.
162. **Prasad PVV**, Middendorf BJ, Reyes M. 2019. Commercialization of Aquaculture for Sustainable Trade (CAST) Cambodia. American Soybean Association. Amount: \$1.83 M.
163. Reyes M, **Prasad PVV**. 2019. Center of Excellence – Reasmeay Sophornna High School Undergraduate Scholarship - Cambodia. United Service Foundation Amount: \$12,857.
164. Reyes M, **Prasad PVV**. 2019. Promoting the adoption of conservation agriculture with trees in Guatemala. United Service Foundation Amount: \$12,210.
165. Reyes M, **Prasad PVV**. 2019. 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: \$107,806.
166. Stewart Z, **Prasad PVV**, Faye A. 2019. Enhancing Resilience and Nutrition in the Peanut Basin of Senegal through Integration of Newly Released Improved Cowpea Varieties. Feed the Future Innovation Lab for Legumes Systems. Amount: \$50,000.
167. Stewart Z, **Prasad PVV**, Reyes M. 2019. CE SAIN Scholars: Increasing opportunities for Cambodian youth to pursue careers in agricultural extension. Epsilon Sigma Phi. Amount: \$5,000.
168. Rice CW, Ciampitti IA, **Prasad PVV**. 2019. Ogallala Water CAP. UDSA-NIFA. Amount: \$50,000.
169. **Prasad PVV**, Lilja N. 2019. Sustainable Intensification Innovation Lab. USAID. Amount: \$23,000,000.

Year 2020

170. **Prasad PVV**, Lilja N. 2020. Center for Sustainable Agricultural Intensification and Nutrition. USAID – Cambodia – Mission. Amount: \$500,000.
171. **Prasad PVV**, Lilja N. 2019. Policy Research Consortium. USAID. Amount: \$100,000.
172. Stewart, Z, Obour A, **Prasad PVV**, Faye A. 2020. Sustainable intensification of dual-purpose cowpea for enhanced food and fodder in Senegal. Feed the Future Innovation Lab for Legumes Systems. Amount: \$204,700.
173. **Prasad PVV**, Stewart Z. 2020. Sustainable Opportunities for Improving Livelihoods with Soils (SOILS) Consortium. IFDC. Amount: \$100,000.
174. **Prasad PVV**, Middendorf BJ. 2020. Innovation (i) Research, Extension, Advisory Coordination Hub. USAID – DC. Amount: \$200,000.
175. Reyes M, **Prasad PVV**. 2020. Capacity building of university scholarships for Guatemala and the Philippines. United Service Foundation Amount: \$90,000.
176. Reyes M, **Prasad PVV**. 2020. Scholarships and summer travel – 2020. United Service Foundation Amount: \$40,000.
177. Reyes M, Middendorf BJ, **Prasad PVV**. 2020. Development of bighead catfish (*Clarias macrocephalus*) culture for sustainable agriculture in Cambodia. Fish Innovation Lab: \$16,900.
178. **Prasad PVV**, Middendorf BJ. 2020. Capacity building of students from SKUAST-Kashmir (India) at Kansas State University. ICAR. Amount: \$55,500.
179. Rice CW, Northup B, Ochsner T, Izaurrealde...**Prasad PVV**. 2020. The rainfed agriculture innovation network. USDA-NIFA. Amount: \$250,000.

Year 2021

180. **Prasad PVV**, Lilja N. 2021. Center for Sustainable Agricultural Intensification and Nutrition. USAID – Cambodia – Mission. Amount: \$500,000.
181. **Prasad PVV**, Middendorf BJ. 2021. Haiti Agricultural University Partnership – Center for Excellence on Mitigation, Adaptation, Resilience for Climate Change in Haiti (CEMARCH). USAID – DC. Amount: \$12.6 M. (Year 1: 5.3 M)
182. **Prasad PVV**, Middendorf BJ. 2021. Innovation (i) Research, Extension, Advisory Coordination Hub. USAID – DC. Amount: \$300,000.
183. Obour A, **Prasad PVV**, Faye A. 2021. Sustainable intensification of dual-purpose cowpea for enhanced food and fodder in Senegal. Feed the Future Innovation Lab for Legumes Systems. Amount: \$115,384.
184. Reyes M, **Prasad PVV**. 2021. CESAIN scholarships for Cambodians to pursue the agricultural profession. United Service Foundation Amount: \$18,500.
185. Reyes M, **Prasad PVV**. 2021. Scholarships and summer travel – 2020. United Service Foundation Amount: \$40,000.

186. Reyes M, Middendorf BJ, **Prasad PVV**. 2021. Development of bighead catfish (*Clarias macrocephalus*) culture for sustainable agriculture in Cambodia. Fish Innovation Lab: \$16,359.

Year 2022

187. **Prasad PVV**, Lilja N. 2022. Center for Sustainable Agricultural Intensification and Nutrition (CESAIN). USAID – Cambodia – Mission. Amount: \$500,000.
188. **Prasad PVV**, Middendorf BJ. 2022. Innovation (i) Research, Extension, Advisory Coordination Hub. USAID – DC. Amount: \$1,000,000.
189. **Prasad PVV**, Middendorf BJ. 2022. Climate Smart Agriculture in Guatemala. Amount: \$300,000.
190. **Prasad PVV**, Middendorf BJ, Reyes M, Ciampitti IA, Sharda A. 2022. Enhancing the education of the faculty of Agronomy and Agricultural Engineering at Royal University of Agriculture (RUA), Cambodia. RUA-World Bank. Amount: \$198,756.
191. Reyes M, **Prasad PVV**. 2022. CESAIN Scholarship for Cambodians to Pursue the Agricultural Profession – Cambodia. United Service Foundation Amount: \$30,000.
192. **Prasad PVV**, Middendorf BJ. 2022. Capacity Building Grant from Acharya N.G. Ranga Agricultural University, Andhra Pradesh, India. World Bank and Indian Council of Agricultural Research (ICAR). Amount: \$86,130.
193. Ciampitti IA, Sharda A, **Prasad PVV**. 2022. Experimental prototype farm for tomorrow (EPFOT). Global Food Systems Seed Grant Program, Kansas State University. Amount: \$99,999.
194. Reyes M, **Prasad PVV**. 2021. CESAIN scholarships for Cambodians to pursue the agricultural profession. United Service Foundation Amount: \$30,000.