CURRICULUM VITAE

January 21, 2015

I. PERSONAL INFORMATION

Name:Fugen Dou

Rank:Assistant Professor

Address: Texas A&M AgriLife Research Center

1509 Aggie Drive Beaumont, TX, U.S.A.

Department:Soil and Crop Sciences

Date of appointment:May 1, 2009

Email:f-dou@aesrg.tamu.edu

Tel:(409) 752-2741

II. EDUCATION

2000 - 2005 Doctor of Philosophy (Soil Science), Texas A&M University

1996 - 2000 Master of Science (Plant Nutrition and Soil Science), Chinese

Academy of Agricultural Sciences, Beijing, China

1989 - 1993 Bachelor of Science (Soil Science and Agricultural Chemistry),

Zhejiang University (Formal Zhejiang Agricultural University), Hangzhou, China

III. EXPERIENCE

2009 - Present Assistant Professor, Texas A&M AgriLife Research and Department

of Soil and Crop Sciences, Texas A&M University

2007 - 2009 Postdoctoral Research Associate, Department of Plant Sciences,

University of California, Davis

2005 - 2007 Postdoctoral Research Associate, International Arctic Research

Center, University of Alaska at Fairbanks

2000 - 2005 Graduate Research/Teaching Assistant, Department of Soil and

Crop Sciences, Texas A&M University

1993 - 2000 Research Assistant, Instituteof Soil and Fertilizer, Chinese

Academy of Agricultural Sciences, Beijing, China

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Position Description

Percent Appointment: 100% Research

 Provide expertise in the plant-soil-environment interface as part of a team of

scientists whose focus is the study of plant response to abiotic and biotic stresses,

and physiology of yield and quality with an emphasis on rice. Significant aspects

of the research are expected to focus on nutrient transport, as affected by edaphic,

climatic, biotic and physiological variables that impact the plant/soil continuum,

and the response of rice and other crops to nutrient availability

 Contribute to development of quantitative/physicochemical models and

management decision aids to address nutrient management and the movement of

nutrients within soil, to and in the plant, and in ground and surface water. The

successful candidate will contribute to the development and application of a

mechanistic understanding of the complexity inherent in plant and cropping

systems and in predicting genotype yield performance as impacted by abiotic and

biotic stresses

 Develop fertility recommendations for commercial cultivars and elite lines of

rice. The incumbent will be expected todevelop field experiments across the

Texas rice belt, to partner with plant nutrition experts in other rice producing

states, and to effectively communicate with the state’s rice producers.

Opportunity also exists for research on bioenergy and other crops,

phytoremediation, and organic production

IV. RESEARCH

Percent budgeted time = 100%

Dr. Dou’s research focuses on the development of sustainable crop (mainly rice)

production while mitigating adverse environmental impacts through combined

techniques of field and greenhouse trials, laboratory analyses, modeling, and metadata analysis. Specifically, his research contributes to: 1) improving and applying

process-based models; 2) determining the effects of rice and biomass sorghum

production on greenhouse gas emissions and soil and water quality; 3) improving

nutrient recommendations for the production ofrice and other crops; and 4) providing

critical information to assist rice producers in variety selection.

A. Active Research Projects (cooperators included)

Improvement of Nutrient Management and Variety Evaluation for Texas Rice

Producers

Determine the effects of variety, nitrogen rate and timing, planting date, and soil on

rice production, grain yield, milling quality, and water quality on clay and loamy

soils.L. Tarpley and G. McCauley. 2009-2014. Dr. Dou supervises a research

associate and a technician who are working on determining the effects of biotic and

abiotic stresses on rice production. The results from this multiple-year project indicate

that: 1) rice variety has a significant effect on rice crop production, grain yield

potential and milling quality; 2) different rice varieties have different requirements

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for fertilizer N to approach the yield potential; 3) compared to clay soil, loamy soil

supplies greater soil N to the rice crop; 4) hybrids have greater nitrogen use efficiency

(NUE) than inbreds and thus require less fertilizer N to approach yield potential; 5)

splitting nitrogen application does not improveNUE if a timely flood is applied; and

6) earlier planting generally benefits ratoon rice production and greater total (main

and ratoon) yields. The results have beenreported to the Texas Rice Research

Foundation, published in the Texas Rice Production Guidelines, and presented to rice

producers, county agents, rice industry consultants and other stakeholders.

Improving soil quality to increase yield and reduce diseases in organic rice

production. A. McClung, S. Zhou, D. Anderson, S. Kresovich, and M. Shepard.

2012-present. Dr. Dou is supervising a research associate and a technician working on

the combined effects of cover crop, soil amendment, and variety selection on organic

rice yield, milling quality, and disease severity. Also, a graduate student will be cosupervised by Drs. Gentry and Dou to work on the effect of organic rice production

on the soil microbial community structure which regulates greenhouse gas emissions.

Development and Application of Process-based Models to Simulate the Effects of

Abiotic and Biotic Factors on Crop Production, Carbon Sequestration,

Greenhouse Gas Emissions (GHG), and Life Cycle Analysis

Impact of biomass sorghum feedstock production on carbon sequestration and

greenhouse gas emissions in the southcentral region. F. Hons, J. Wight, J. M. Mjelde,

and G. O. Osuji. 2011-present. Drs. Dou and Hons are co-supervising a Ph.D. student,

Yong Wang, who is simulating the effects of cropping system, residue return, N

fertilization, tillage, and soil type on biomass sorghum production, soil organic C

sequestration, and GHG emissions using a process-based biogeochemical model,

DayCent. His results indicate that 1) the DayCent model can reasonably simulate the

impact of management practices on biomass sorghum production and 2) residue

return and nitrogen fertilization have significant impacts on soil C sequestration and

GHG emissions.

Development of a soil organic C and N module which will improve the capability and

performance of an existing, process-based crop model, RicePSM. L. T. Wilson Y.

Yang, J. Wang. 2009-present. Dr. Dou has been working on the development of a

conceptual soil organic C and N module and parameterizing the functions which can

effectively describe the turnover of soil organic C and N including mineralization,

nitrification, denitrification, methane production and consumption, ammonia

volatilization, nitrous oxide flux, and nitrogen transport across soil layers. In addition,

the results from the field trials on rice and biomass sorghum production will be used

to calibrate the developed soil organic C and N module.

Improving soil quality, carbon sequestration, and mitigating greenhouse gas

emissions in organic rice production. F. Hons, J. Wight, and A. Torbert. 2012-present. Drs. Hons and Dou are co-supervising a postdoctoral associate, Dr. Joseph.

Storlien, who is working on the effects ofcover crop, variety, and soil amendment on

soil organic C sequestration and GHG emissions. He is also determining the effects of

organic vs. conventional rice production on GHG emissions. His results indicate that

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soil amendment type and application rate and rice variety significantly affect GHG

emissions. A portion of his results have been reported to the advisory board of this

project as well as at a biennial international rice researchmeeting, the Rice Technical

Working Group. Additionally, emissions due to different treatments will be used to

conduct a life cycle assessment of the different cropping systems.

B. Sources of Research Funding and Support

 Texas Rice Research Foundation (5)

 Texas A&M AgriLife Research Bioenergy Initiatives Program (1)

 Texas A&M AgriLife Research Ukulima Program (1)

 USDA-NIFA-ARFI Bioenergy Initiatives Program (1)

 USDA-NIFA-AFRI Organic Research and Education Initiatives Program (1)

 USDA Southern SARE Researchand Education Program (1)

 USDA Southern SARE Young Scholars Enhancement Grant Program (2)

 USDA-ARS Organic Rice Research Program (1)

 TeraGanix Ag1000 Company (1)

 Grower's Secret Company (1)

V. TEACHING

Percentage budgeted time = 0%

A. Undergraduate students

Justin Floyd, a student at Lamar University, worked on conventional rice production

in my program during Summer 2012, which was beneficial for him in gaining

experience in rice production.

Garrett Floyd, a student atHarding High School, conducted his internship on the

effects of organic rice production on water quality as well as to learn organic rice

production, which was supported by the USDA SARE Young Scholar Enhancement

Grant. He finished his internship at the Texas A&M AgriLife Research Center at

Beaumont in Summer 2013. His research led to a poster presented at the office of

USDA Southern SARE.

Chris Dermody, an agronomy major at Texas A&M University, worked on GHG

sampling during organic rice production in Summer 2013. He learned how to collect

gas samples in flooded fields and gainedrelevant knowledge of organic rice

production.

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B. Graduate Students

Yong Wang began work towards a Ph.D. inSoil Science in August 2012. Drs. Dou

and Hons are co-supervising Yong, who is simulating the effects of biomass sorghum

production on soil organic C and GHG emissions. In June 2014, Yong visited the

Natural Resource Ecology Laboratory at Colorado State University and the USDA

ARS DayCent Modeling Laboratory in Ft. Collins, CO to gain additional modeling

experience. This trip was partially supported by the SmithTravel grant. Yong is

making progress with his research and is anticipated to graduate in 2016.

A M.S. graduate student, Mariana Valdez Velarca, will join the group in Fall 2014.

She was jointly nominated by Drs. Gentry and Dou and has been selected to receive

an Excellence Fellowship. Mariana will work on the organic rice project this fall,

specifically using tools, including soil microbial communitystructure, to determine

the effects of management practices on methane production and consumption.

C. Postdoctoral Research Associates

Dr. Kirill Kostyanovskiywas supervised by Dr. Dou to work on the effect of rice

production on water quality and soil dissolvedorganic C and N and inorganic N. The

results of his research indicated thatwater pH and EC changed during rice

production. Soil dissolved organic C and N wereaffected by rice variety, with highest

values observed during reproductive stages. These results were presented at the 2011

ASA-SSSA-CSA annual conference in San Antonio, TX.

Dr. Guangjie Liu, co-supervised by Drs. Zhou and Dou, is determining the effects of

variety, N fertilization, and planting date on conventional rice production, grain yield,

milling quality, and NUE. Part of his research was presented at both Eagle Lake and

Beaumont Field Days and at the 2014 Rice Technical Working Group meeting in

New Orleans.

Dr. Joseph Storlien is working on the effects of cover crop, soil amendment, and

variety on GHG emissions in organic rice production. His results indicate that soil

amendment type and application rate and rice variety significantly affect GHG

emissions. A portion of his results have been reported to the advisory board of this

project as well as at a biennial international rice researchmeeting, the Rice Technical

Working Group. Additionally, emissions due to different treatments will be used to

conduct a life cycle assessment of the different cropping systems.

Visiting Scholars

Dr. Junel Soriano, an Associate Professor and Vice President of Research, Education

and Service of the Bulacan Agricultural State College in the Philippines, cosupervised by Drs. Dou and Tabien, was supported by the Fulbright Visiting

Scholar Programand completed his research at the Beaumont Center. His research

has contributed to three research posters and two manuscripts are in preparation for

publication.

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Dr. Youzhong Lang is an Associate Professor at Yangzhou University in China. Drs.

Tarpley and Dou co-supervised Youzhong who worked on the effects of cover crop

and soil amendment on organic rice production, N uptake, and yield components, as

well as on leaf traits for adaptation to future climates. His research was presented at

the 2014 Rice Technical Working Group in New Orleans. A manuscript from this

work is currently in preparation.

Dr. Ganghua Li is an Associate Professor and Deputy Department Head of

Agriculture at Nanjing Agricultural University in China. Ganghua, co-supervised by

Drs. Tarpley and Dou, is working on the effects of organic rice on GHG emissions,

elevated temperature on rice physiology and productivity, and methods to prevent

tillering shock. His research was presented at the 2014 Rice Technical Working

Group in New Orleans. A manuscript on the GHG emission portion of his work is in

preparation.

Dr. Shu Wang is supported by the China Scholarship Counciland is a Professor at

Shenyang Agricultural University and a Visiting Scholar at the Texas A&M AgriLife

Research Center at Beaumont. Dr. Dou issupervising Dr. Wang, who is working on

seeding rate, seeding method, and variety effects on organic rice production. Dr.

Wang is also working on the effect of conventional and organic rice production on

GHG emissions.

VI. SERVICE and OUTREACH

Dr. Dou has provided service to Texas A&M AgriLife Research at local, state, and

national levels. He has served on multiple Center committees, is a member of several

professional organizations, and has chaired committees and panels at international

scientific meetings, including the Soil Science Society of America. He has reviewed

numerous manuscripts for a variety of journals along with seventeen (17) research

proposals for USDA SARE.

A. Center Committee Assignments

 Chair of the Beaumont Center Field Day Morning Program Set-up

Committee, 2010-present

 Chair of the Beaumont CenterSafety Award Committee, 2010-2012

 Member of Field Day Theme Committee, 2014-present

B. State Service

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2010

 Technology-transfer presentation on variety evaluation and nutrient

management at the 63th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 8th, 2010.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2011

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 Technology-transfer presentation on variety evaluation and nutrient

management at the 64th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 14th, 2011.

 Extension presentation on variety evaluation and nutrient management to

Texas Rice Industry Advisory Committee at the US Rice Producer's

Association headquarters in Houston on November 30th, 2011.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2012

 Technology-transfer presentation on variety evaluation and nutrient

management at the 65th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 12th, 2012.

 Extension presentation on variety evaluation and nutrient management to

Texas Rice Industry Advisory Committee at the US Rice Producer's

Association headquarters in Houston on November 28th, 2012.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2013

 Technology-transfer presentation on organic rice production at the 65th

annual field day at the Texas A&M AgriLife Research & Extension Center at

Beaumont on July 11th, 2013.

 Technology-transfer presentation on variety evaluation and nutrient

management at the 65th annual field day at the on July 11th, 2013.

 Presented seminar on nitrogen managementto County Extension Agents at the

Texas A&M AgriLife Research & Extension Center at Beaumont, 2013

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2014

 Presentation on impacts of winter cover crop and soil amendment on organic

rice production to the Department of Soil and Crop Sciences, Texas A&M

University, February 2014

 Technology-transfer presentation on rice variety evaluation and nutrient

management at the 40th annual field day at the Texas A&M AgriLife

Research Station at Eagle Lake, June 2014.

 Organize 2014 Texas Soil Critique Meeting at Texas A&M AgriLife Research

Center at Beaumont, TX, July 2014.

 Technology-transfer presentation on bestrice nitrogen management at the

67th annual field day at the Texas A&M AgriLife Research Center at

Beaumont, July 2014.

C. National Service

 Member of the Nominations Committee for Rice Technical Working Group,

2010-2012

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 Chair of the Nominations Committeefor Rice Technical Working Group,

2012-2014

 Organized the first organic rice workshop at the office of the US Rice

Producers Association in Houston, TX, March 2013.

 Chair of the Culture Panelfor Rice Technical Working Group, 2014-2016

 Organized organic rice workshop at the Texas A&M AgriLife Research

Center at Beaumont, TX, July 2014.

D. Articles Reviewed for Journals

 Soil Science Society of America Journal

 Agronomy Journal

 Global Change Biology

 Soil Tillage Research

 Geoderma

 Soil Science

 Australian Journal of Soil Research

 Pedosphere

 Journal of Environmental Quality

 Soil and Plant Nutrition

 Journal of Soil and Sediments

 Agriculture, Ecosystems & Environment

E. Proposals Reviewed for Granting Organizations (17)

 2013 (10 total): USDA Southern SARE On-Farm Research Program

 2014 (7 total): USDA Southern SAREGraduate Research Program

F. Professional and Scientific Activities

 American Society of Agronomy, member since 2002

 Soil Science Society of America, member since 2002

 Rice Technical Working Group, member since 2010

 Biological Systems Simulation Group, member since 2011

 American Geophysical Union, member 2005-2007

 International Permafrost Association, member 2005-2007

 Arctic AAAS, member 2005-2007

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VII. MAJOR ACCOMPLISHMENTS

Summary table of grants and contracts

Type and Role

Since Last Promotion

Total dollars to all PIs

Dollars allocated

to your program

External Competitive

PI 964,442 568,796

Co-PI 1,058,267 212,261

Total (PI + Co-PI) 2,022,709 781,057

Internal Competitive

PI 249,900 181,900

Co-PI 300,000 20,000

Total (PI + Co-PI) 549,900 201,900

TOTAL 2,572,609 982,957

Summary table of publications and output

Type Since Last Promotion Career

Journal Articles

(Refereed/Peer-Reviewed)

719

Scientific Abstracts 28 47

Editor Reviewed

Publications

46 46

Popular Articles/Reports 24 24

TOTAL 105 136

Contribution and significance of grants

I have been principal investigator (PI) or co-investigator (Co-PI) on fifteen (15)

funded research grants since starting my current position. As the PI of four (4)

federal competitive research grants (USDA-NIFA, USDA-SARE Education and

Research, USDA-SARE Young Scholars Enhancement Grants) on organic rice, I am

leading research which will contribute to: 1) the development of nutrient

management guidelines for organic rice production, 2) an assessment of the effects

of organic rice production on soil C sequestration, 3) a determination of the

economical feasibility of organic rice production using cover crops and soil

amendments, 4) an assessment of the effects of cover crop and soil amendment on

GHG emissions, 5) a life cycle assessmentto identify sustainable management

practices for organic rice in terms of grain yield, soil quality, C sequestration, and

GHG emissions, and 6) the education for tomorrow's leaders in sustainable

agriculture.

In the other research project supported by USDA-NIFA,my major role includes

assessing biomass sorghum production effects on soil C sequestration and GHG

emissions using the process-based model,DayCent. Anticipated outputs from these

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research activities include delimiting bestmanagement practices for sustainable

biomass sorghum production in terms of both yield and ecological service. Such

information is also critical for policy makersfor decisions associated with bioenergy

development.

I also have provided leadership for the successful implementation of four (4) projects

supported by the Texas rice industry. The results from these projects have

contributed to updates of popular variety evaluations and nutrient recommendations

for new varieties, which have been used to develop new Texas Rice Production

Guidelines for rice producers. My research project has also intensively evaluated

responses of major rice varieties planted in Texas to different planting dates and

other cultural practices. Asa result, rice producers can make better choices in

selection of planting windows and adjustment of crop management in response to

planting date and ratooning, which is animportant practice for increasing net

income.

In summary, the receipt of research funding from federal, state, and industry sources

enhances my capability in conducting scientific research that is important for

generating new knowledge for both the scientific community and producers. These

grants also provide support to undergraduate students, graduate students and

postdoctoral research associates, who are ourscientists of the future. Results from

these funded projects will benefit stakeholders including rice producers and the

biomass sorghum industry.

Contribution and significance ofpeer-reviewed publications

My research activities have produced nineteen (19) refereedarticles including one in

press, of which seven (7) have been published or are in press since I started in my

current position.

My recently published seven papers are focused on soil organic C and N. Soil

organic C and N are highly linked because more than 98% of soil total N occurs in

organic form. Thus, the content, lability, and mineralization of soil organic C will

affect soil organic N and N availability to crops.

However, the importance and complex transformations of soil inorganic N associated

with nutrient management necessitate moreinvolved studies than only soil organic

C. For example, one of these papers explored the effect of soil clay content on

ammonium diffusion. Ammonium is the primary inorganic form of N that is

available to flooded rice. Thus, the amount of soil ammonium and its diffusion rate

determine the supply of soil N to rice. Both rice producers and researchers have

reported that rice grown on light-textured soils has greater yield potential than when

produced on clay soils. Our study quantified the effect of clay content on soil

ammonium diffusion by incorporating a laboratory incubation experiment. Our

research showed that deeply incorporatedN fertilizer may notcontribute to rice

production on clay soils in the current season due to low diffusion rate, although

incorporation has been recommended for decreasing ammonia volatilization loss.

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To better quantify the effects of management practices and environmental conditions

on soil structure and organic C and N turnovers, Dr. Dou and his colleagues have

developed a process-based soil model which simulates the turnover of soil

aggregates and associated organic C and N. The results from this research were

published in the journal, Ecological Modeling,in 2013. Dr. Dou mainly contributed

to the model development, sensitivity analysis and optimization using Bayesian

methods.

VIII. GRANTS AND CONTRACTS AWARDED (15)

Federal Competitive Research Grants (5):

1. Hons, F.M. (PI), J. Wight, J. Mjelde, F. Dou, and G. Osuji. 2010.Impact of biomass

sorghum feedstock production on carbon sequestration and greenhouse gas emissions

in the southcentral region.USDA-NIFA-AFRI. 2012-2016. $997,100. Dou portion is

$183,344.

2. Dou, F. (PI), A. M. McClung, X.G. Zhou, D. Anderson, S. Kresovich, and B. M.

Shepard. 2012. Improving soil quality toincrease yield and reduce diseases in organic

rice production. USDA-SARE. 2012-2015. $225,000. Dou portion is $125,800.

3. Dou, F. (PI), F. Hons, J. Wight, and A. Torbert. 2012. Improving soil quality, C

sequestration, and mitigating greenhouse gas emission in organic rice production.

USDA-NIFA-OREI. 2012-2015. $726,892. Dou portion is $430,446.

4. Dou, F. (PI). 2013. Enhance sustainable agriculture experience for young scholars

through summer internship program. USDA-SARE. $4,222. Dou portion is $4,222.

5. Dou, F. (PI). 2014. Enhance sustainable agriculture experience for young scholars

through summer internship program. USDA-SARE. $4,328. Dou portion is $4,328.

Federal Non-Competitive Research Grants (1):

6. Zhou, X. G. (PI) andF. Dou. 2012. Disease and nutrient management research in

organic rice. USDA-ARS Dale Bumpers National Rice Research Center.2012.

$51,167. Dou portion is $25,584.

Texas Rice Industry Support (5):

7. Dou, F.(PI) and L. Tarpley. 2010. Rice varietal evaluation, nutrient management

improvement, and planting date study for Texas production practices. Texas Rice

Research Foundation. 2010-2012. $49,000. Dou portion is $49,000.

8. Dou, F.(PI) and L. Tarpley. 2011. Rice varietal evaluation, nutrient management

improvement, and planting date study for Texas production practices. Texas Rice

Research Foundation. 2011-2013. $49,900. Dou portion is $49,900.

9. Dou, F. (PI), McCauley, G. N., and L. Tarpley. 2012. Ricevarietal evaluation,

nutrient management, and evaluating performance potential for hybrids and select

inbred varieties. Texas RiceResearch Foundation. 2012-2014. $51,000. Dou portion is

$33,000.

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10. Dou, F. (PI),G. N. McCauley, and L. Tarpley. 2013. Rice varietal evaluation and

nutrient management improvement for Texas production practices. Texas Rice

Research Foundation. 2013-2015. $20,000. Dou portion is $20,000.

11. Dou, F. (PI) and G. N. McCauley. 2014. Rice varietal evaluation and nutrient

management improvement for Texas production practices. Texas Rice Research

Foundation. 2014-2016. $20,000. Dou portion is $20,000.

Texas A&M AgriLife Research Competitive Research Grants (2):

12. Smith, G. (PI), J. Muir, D. Malinowski, J. Foster, M. Rouquette, F. Dou, and L.

Tarpley. 2009. Sustainable production ofcellulosic biomass with attention to natural

resource conservation and wildlife stewardship. Texas AgriLife Bioenergy Initiatives

Program. 2009-2010. $300,000. Dou portion is $20,000.

13. Tabien, D. (PI), F. Dou, and X.G. Zhou. 2012. Development of profitable and

sustainable rice production system for South Africa and major rice growing areas of

Africa. Texas AgriLife Research, Ukulima program. 2012-2013. $60,000. Dou portion

is $10,000.

Industry or Commodity Support (2):

14. Dou, F. (PI).2014. Grower Secret Nitrogen for organic rice production. Growers

Secret, Inc. 2014. $4,000. Dou portion is $4,000.

15. Tarpley, L. (PI), F. Dou, and X. Zhou. 2014. TeraGanix Ag1000 for U.S. Rice

Production. TeraGanix, Inc. 2014. $10,000. Dou portion is $3,333.

Pending Grants (2):

16. Dou, F.(PI), R. Mulvaney, C. Li, and X. Yu. 2014. Improving nitrogen use efficiency

in rice production by site-specific N management and the use of a urease inhibitor.

USDA-NIFA-AFRI A1401. 2015-2018. $499,192. Pending.

17. Tabien, D. (PI), F. Dou, H. Utomo, J. Soriano, and J.Valdez. 2014. Discovery and

transfer of genes for abioticstresses in rice: herbicide and drought tolerance. USDANIFA-AFRI A1141. 2014-2017. $499,920. Pending.

Non-funded Grants (26):

1. Abeygunawardena, P. (PI), W. Payne (PI), T. B. Jamal, F. Dou, and D. Rowland.

2009. Conservation agriculture to sustainably increase smallholder food security

in marginal rain-fed rice systems ofCambodia and Lao PDR. US-AID SANRM

(Sustainable Agriculture and Natural Resource Management) Collaborative

Research Support Program. 2010-2015. $1,256,852.

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2. Dou, F. 2009. Increasing predictability of nutrient release from organic matter:

The interaction of organic resource and soil aggregate turnover controls N

cycling. USDA-SARE. 2010-2012. $20,436.

3. Samonte, S.O.B.P., Y. Yang, L. T. Wilson, F. Dou, and P. Sta Cruz. 2009.

Development of rapid selection methodology for high yielding and nutrient

efficient rice cultivars. NSF-BREAD (Basic Research to Enable Agricultural

Development). 2010-2013. $870,323.

4. Tabien, R. E., W. D. Park, S.O.B.P. Samonte, L. Tarpley, D. Vietor, S. Capareda,

F. Dou, R. Jessup, and G. Eizenga. 2009. Development of switchgrass and rice

cultivars for bioenergy feedstock. Texas AgriLife Bioenergy Initiative. 2009-2011. $196,110.

5. Wilson, L. T., Y. Yang, F. Dou, and P. W. Stackhouse Jr. 2009. Impact of

climate change on crop distribution and performance, carbon sequestration, and

greenhouse gas emissions in the U. S.Gulf Coast. NASA-ROSE (Research

Opportunities in Space and Earth Sciences). 2010-2012. $399,267.

6. Dou, F., Y. Yang, L. T. Wilson, F. Hons, J. Wight, and D. Tyler. 2010. The

potential impact of cellulosic bioenergy development on carbon sequestration

and greenhouse gas emissions in the Southern United States. NASA-ROSE

(Research Opportunities in Space and Earth Sciences). 2011-2013. $749,273.

7. Tabien, R., F. Dou, S.O.B.P. Samonte, L. Tarpley, L. T. Wilson, Y. Yang, J. L.

Heilman, K. McInnes, B. A. Kimball, J., W. White, J. T. Baker, and H. S.

Utomo. 2010. Integrated screening and phenotyping for rapid selection of

superior performing rice genotypes adapted to climate changes (A3141). USDANIFA-AFRI. 2011-2015. $4,966,065.

8. Wilson, L. T., Y. Yang, J. Lv, F. Dou, X. G. Zhou, J. Campiche, F. Epplin, R. S.

Frazier, R. Holcomb, P. Kenkel, D. Shideler, L. Ribera, J. Outlaw, Y. Yanigida,

and J. Heissenbuttel. 2010. Develop and validate regional-specific sustainable

production models of bioenergy crops.For the Texas A&M Agroecosystems

Team's portion of the CAP proposal entitled “Sustainable Production of

Lignocellulosic Bioenergy inthe South-Central Region of the United States” led

by Avant, R. V., Huhnke, R. L., with over 50 additional scientists. USDA-NIFAAFRI South Central Regional Bioenergy Coordinated Agricultural Project

(CAP). 2011-2015. $4,249,989.

9. Zhou, X.G., T. Isakeit, M. J. Brewer, F. Dou, and L. Tarpley. 2010. Cover

cropping-based management of diseasesand other components for bioenergy

sorghum production. USDA-NIFA-AFRI. 2011-2015. $995,172.

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36. Wilson, L. T., G. N. McCauley, M. O. Way, L. Tarpley, R. E. Tabien, Y. Yang,

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1. Dou, F. and L. Tarpley. 2010. Annual report of the rice varietal evaluation,

nutrient management improvement, and planting date study for Texas production

practices. Submitted to Texas Rice Research Foundation.

2. Dou, F. 2010. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

3. Dou, F. and L. Tarpley. 2011. Annual report of the rice varietal evaluation,

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8. Dou, F., A. McClung, and S. Zhou. 2013. Annual report of the improving soil

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Submitted to USDA Southern SARE.

9. Dou, F., F. Hons, A. Torbert, and J. Wight. 2013. Annual report of the improving

soil quality, C sequestration, and mitigating greenhouse gas emission in organic

rice production project. Submitted to USDA NIFA.

10. Dou, F. 2013. Integrated cropping system nutrient management. Submitted to

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11. Dou, F. G. McCauley, and L. Tarpley. 2014. Annual report of the rice varietal

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12. Dou, F., A. McClung, and S. Zhou. 2014. Annual report of the improving soil

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Submitted to USDA Southern SARE.

13. Dou, F. 2014. Integrated cropping system nutrient management. Submitted to

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soil quality, C sequestration, and mitigating greenhouse gas emission in organic

rice production project. Submitted to USDA NIFA.

X. PROFESSIONAL HONORS AND AWARDS

2005 Tom Slick Fellowship

2000 Second Award of Chinese Academy of Agricultural Sciences

Trainees ' Honors/Awards

2014 Ms. Mariana Valdez Velarca (M.S. Student) received an Excellence

Fellowship for FY 2015 by College of Agriculture and Life Sciences

2014 Mr. Yong Wang (Ph.D. Student) was selected for a 2014 Smith Travel

Grant from the Department of Soil and Crop Sciences

2014 Mr. Yong Wang (Ph.D. Student) was awarded a 2014-15 Energy Institute

Fellowship sponsored by ConocoPhillips