



RESEARCH  
PROGRAM ON  
Dryland Systems

# 2016 Dryland Systems

List of Publications and Research Outputs

May 2017

*Food security and better livelihoods  
for rural dryland communities*

The CGIAR Research Program on Dryland Systems aims to improve the lives of 1.6 billion people and mitigate land and resource degradation in 3 billion hectares covering the world's dry areas. Dryland Systems engages in integrated agricultural systems research to address key socioeconomic and biophysical constraints that affect food security, equitable and sustainable land and natural resource management, and the livelihoods of poor and marginalized dryland communities. The program unifies eight CGIAR Centres and uses unique partnership platforms to bind together scientific research results with the skills and capacities of national agricultural research systems (NARS), advanced research institutes (ARIs), non-governmental and civil society organizations, the private sector, and other actors to test and develop practical innovative solutions for rural dryland communities.

The program is led by the International Centre for Agricultural Research in the Dry Areas (ICARDA), a member of the CGIAR Consortium. CGIAR is a global agriculture research partnership for a food secure future.

For more information please visit:

[drylandsystems.cgiar.org](http://drylandsystems.cgiar.org)

#### SUGGESTED CITATION

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This document was prepared by the Program Management Unit (PMU) of CRP Dryland Systems, with the support of [Monitoring, Evaluation & Learning \(MEL\)](#). The document was based on the Annual Reports 2016 submitted by participating CGIAR centers, as well as their repositories with a branded name of CRP Dryland Systems.



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## List of Publications and Research Outputs Summary

In 2016, the CGIAR Research Program on Dryland Systems produced 135 journal articles (95 indexed ISI), 19 book chapters, several working papers (109), datasets (68), proceedings (51) and various other publications including policy, technical briefs and social media outputs (208), publishing a total of 590 information products. The knowledge has been reported on [Monitoring, Evaluation & Learning \(MEL\)](#), ensuring Open Access fruition and preserving 100% of Dryland Systems outputs.

What follows is an updated summary list of all 2016 publications and research outputs produced by each CGIAR partner center and the Dryland Systems Program Management Unit (PMU), compiled with the support of MEL. All citations are hyperlinked to [MELSpace](#), the online repository where the information is stored, and the products can be downloaded if Open Access.

The full citation formula adopted is:

[Product Title hyperlinked to MELSpace](#)

APA citation, with authors in full whenever possible.

Type: [Other types](#) | Publication Date: [2016-XX-XX](#)

Project: [Only available if the product has been reported under a project](#)

## Total Number of ISI and Non-ISI Publications<sup>1</sup>: 590

**Table 1. Summary of all ISI publications<sup>1</sup>**

Center	ISI Articles	ISI Factor [range of ISI scores]	Open Access
Bioversity	1	4.495	1
CIAT	3	1.449 – 3.186	2
CIP	1	4.495	1
ICARDA	27	0.17 – 8.145	15
ICRAF	8	0.174 – 3.057	4
ICRISAT	39	0.174 – 4.495	13
ILRI	11	0.373 – 3.057	5
IWMI	1	1.765	0
PMU-DS	9	0.676 – 8.145	2
<b>Total<sup>2</sup></b>	<b>95</b>	<b>0.17-8.145</b>	<b>56</b>

**Table 2. Summary of Non-ISI Publications<sup>1</sup>**

Center	Non-ISI Articles	Book Chapters	Manuscripts - Unpublished	Proceedings (conference materials)	Technical Reports & Working Papers	Datasets	Other	Total per Center and Overall <sup>2</sup>
Bioversity	1	0	0	0	17	8	0	27
CIAT	3	1	0	0	1	0	8	16
CIP	1	0	0	0	0	0	1	3
ICARDA	19	9	4	30	14	55	42	200
ICRAF	2	0	1	0	6	1	5	23
ICRISAT	13	5	0	7	7	0	13	84
IITA	1	0	0	0	0	0	6	7
ILRI	3	1	0	2	5	0	26	48
IWMI	1	0	1	1	1	0	2	7
PMU-DS	3	0	1	6	14	52	18	107
<b>Total per Type and Overall<sup>2</sup></b>	<b>40</b>	<b>19</b>	<b>10</b>	<b>51</b>	<b>109</b>	<b>68</b>	<b>198</b>	<b>495</b>

<sup>1</sup> Last updated 5/9/2017

<sup>2</sup> Shared publications among different centers count as one.

## Bioversity International (27)

### ISI Journal Articles (1)

#### [Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement](#)

Dorcus Chepkeis Gemenet, Willmar Leiser, Francesca Beggi, Ludger Herrmann, Vincent Vadez, Fred Rattunde, Eva Weltzien, Charles Hash, Andreas Buerkert, Bettina Haussmann. (23/9/2016). Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement. *Frontiers in Plant Science*, 7. **Impact factor [4.495]**  
Publication Date: **2016-09-23**

### Non-ISI Journal Articles (1)

#### [Sustainable use and conservation of Vitex doniana Sweet: unlocking the propagation ability using stem cuttings](#)

Enoch Gbenato Achigan-Dako, Sognigbe N'Danikou, Dedeou Apocalypse Tchokponhoue, Assogba Komlan Francoise, Raymond Vodouhe, Adam Ahanchede. (19/2/2016). Sustainable use and conservation of Vitex doniana Sweet: unlocking the propagation ability using stem cuttings. *Journal of Agriculture and Environment for International Development - JAEID*, 108(1), pp. 43-62.  
Publication Date: **2016-02-19**

### Reports/Working Papers (17)

#### [CRP Dryland Systems - Bioversity - 2015 Technical and Financial Report - Final](#)

Bellon, M., A.Poulos (2016). CRP Dryland Systems - Bioversity - 2015 Technical and Financial Report - Final. Publisher.  
Publication Date: **2016-04-04**

#### [Protocol for the Agricultural Biodiversity \(ABD\) Assessment in Ghana](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe. (20/12/2016). Protocol for the Agricultural Biodiversity (ABD) Assessment in Ghana. Rome, Italy: Bioversity International.  
Publication Date: **2016-12-20**

#### [Protocol for the Agricultural Biodiversity \(ABD\) Assessment in Ghana](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe. (20/12/2016). Protocol for the Agricultural Biodiversity (ABD) Assessment in Ghana. Rome, Italy: Bioversity International.  
Publication Date: **2016-12-20**

#### [Ghana Household Surveys for Agricultural Biodiversity Assessment](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Deleuze Gervais Ntandou-Bouzitou. (17/11/2016). Ghana Household Surveys for Agricultural Biodiversity Assessment. Rome, Italy: Bioversity International.  
Publication Date: **2016-11-17**

#### [Ghana Diet Diversity and Food Security for Agricultural Biodiversity Assessment](#)

Deleuze Gervais Ntandou-Bouzitou, Celine Termote, Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe. (28/11/2016). Ghana Diet Diversity and Food Security for Agricultural Biodiversity Assessment. Rome, Italy: Bioversity International.  
Publication Date: **2016-11-28**

#### [Ghana Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire](#)

Deleuze Gervais Ntandou-Bouzitou, Celine Termote, Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe. (28/11/2016). Ghana Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire. Rome, Italy: Bioversity International.

Publication Date: [2016-11-28](#)

#### [Karnataka Focus Group Discussions Data](#)

Mauricio Bellon, Prem N. Mathur, H. B. Patil. (20/12/2016). Karnataka Focus Group Discussions Data. Rome, Italy: Bioversity International.

Publication Date: [2016-12-20](#)

#### [Karnataka Household Surveys for Agricultural Biodiversity Assessment: Questionnaire](#)

Mauricio Bellon, Prem N. Mathur. (20/12/2016). Karnataka Household Surveys for Agricultural Biodiversity Assessment: Questionnaire. Rome, Italy: Bioversity International.

Publication Date: [2016-12-20](#)

#### [Karnataka Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire](#)

Deleuze Gervais Ntandou-Bouzitou, Mauricio Bellon, Prem N. Mathur, H. B. Patil. (20/12/2016). Karnataka Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire. Rome, Italy: Bioversity International.

Publication Date: [2016-12-20](#)

#### [Protocol for the Agricultural Biodiversity \(ABD\) Assessment in Mali / Protocole pour l'évaluation de la Biodiversité Agricole \(ABD\) á Mali \(EN\)](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Amadou Sidibe. (19/12/2016). Protocol for the Agricultural Biodiversity (ABD) Assessment in Mali / Protocole pour l'évaluation de la Biodiversité Agricole (ABD) á Mali (EN). Rome, Italy: Bioversity International.

Publication Date: [2016-12-19](#)

#### [Protocol for the Agricultural Biodiversity \(ABD\) Assessment in Mali / Protocole pour l'évaluation de la Biodiversité Agricole \(ABD\) á Mali \(FR\)](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Amadou Sidibe. (19/12/2016). Protocol for the Agricultural Biodiversity (ABD) Assessment in Mali / Protocole pour l'évaluation de la Biodiversité Agricole (ABD) á Mali (FR). Rome, Italy: Bioversity International.

Publication Date: [2016-12-19](#)

#### [Mali Household Surveys for Agricultural Biodiversity Assessment: Questionnaire \(EN\)](#)

Mauricio Bellon, Raymond Vodouhe, Sognigbe N'Danikou, Deleuze Gervais Ntandou-Bouzitou, Amadou Sidibe. (1/12/2016). Mali Household Surveys for Agricultural Biodiversity Assessment: Questionnaire (EN). Rome, Italy: Bioversity International.

Publication Date: [2016-12-01](#)

#### [Mali Household Surveys for Agricultural Biodiversity Assessment: Questionnaire \(FR\)](#)

Mauricio Bellon, Raymond Vodouhe, Sognigbe N'Danikou, Deleuze Gervais Ntandou-Bouzitou, Amadou Sidibe. (1/12/2016). Mali Household Surveys for Agricultural Biodiversity Assessment: Questionnaire (FR). Rome, Italy: Bioversity International.

Publication Date: [2016-12-01](#)

#### [Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment](#)

Deleuze Gervais Ntandou-Bouzitou, Celine Termote, Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Amadou Sidibe. (19/12/2016). Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment. Rome, Italy: Bioversity International.

Publication Date: [2016-12-19](#)

#### [Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire \(FR\)](#)

Deleuze Gervais Ntandou-Bouzitou, Celine Termote, Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Amadou Sidibe. (19/12/2016). Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire (FR). Rome, Italy: Bioversity International.

Publication Date: **2016-12-19**

#### [Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire \(EN\)](#)

Deleuze Gervais Ntandou-Bouzitou, Celine Termote, Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Amadou Sidibe. (19/12/2016). Mali Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Questionnaire (EN). Rome, Italy: Bioversity International.

Publication Date: **2016-12-19**

#### [Niger Focus Group Discussion Data](#)

Raymond Vodouhe, Sognigbe N'Danikou, Mauricio Bellon. (20/12/2016). Niger Focus Group Discussion Data. Rome, Italy: Bioversity International.

Publication Date: **2016-12-20**

### **Datasets (8)**

#### [Ghana Focus Group Discussions Data: Dataset](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Deleuze Gervais Ntandou-Bouzitou. (20/12/2016). Ghana Focus Group Discussions Data: Dataset [Socio-Economics survey data].

Publication Date: **2016-12-20**

#### [Ghana Household Surveys for Agricultural Biodiversity Assessment: Dataset](#)

Mauricio Bellon, Sognigbe N'Danikou, Raymond Vodouhe, Deleuze Gervais Ntandou-Bouzitou. (20/12/2016). Ghana Household Surveys for Agricultural Biodiversity Assessment: Dataset [Socio-Economics survey data].

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#### [Karnataka Household Surveys for Agricultural Biodiversity Assessment: Dataset](#)

Mauricio Bellon, Prem N. Mathur. (20/12/2016). Karnataka Household Surveys for Agricultural Biodiversity Assessment: Dataset [Socio-Economics survey data].

Publication Date: **2016-12-20**

#### [Karnataka Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Dataset](#)

Deleuze Gervais Ntandou-Bouzitou, Mauricio Bellon, Prem N. Mathur, H. B. Patil. (20/12/2016). Karnataka Diet Diversity and Food Security for Agricultural Biodiversity Assessment: Dataset [Socio-Economics survey data].

Publication Date: **2016-12-20**

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Publication Date: **2016-12-20**



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Publication Date: **2016-12-19**

**Niger Focus Group Discussion Data: Dataset**

Raymond Vodouhe, Sognigbe N'Danikou, Mauricio Bellon. (20/12/2016). Niger Focus Group Discussion Data: Dataset [Socio-Economics survey data].

Publication Date: **2016-12-20**

## CIAT – International Center for Tropical Agriculture (16)

### ISI Journal Articles (3)

#### Determinants of integrated soil fertility management technologies adoption by smallholder farmers in the Chinyanja Triangle of Southern Africa

Powell Mponela, Nelson Tamene, Nelson Ndengu, Nelson Mango. (30/12/2016). Determinants of integrated soil fertility management technologies adoption by smallholder farmers in the Chinyanja Triangle of Southern Africa. *Land Use Policy*, 59, pp. 38-48. **Impact factor [2.768]**  
Publication Date: 2016-12-30

#### Climate, soil and land-use based land suitability evaluation for oilpalm production in Ghana

Tiemen Rhebergen, & Thomas Fairhurst, & Shamie Zingore, & Myles Fisher, & Thomas Oberthür, & Anthony Whitbread. (15/8/2016). Climate, soil and land-use based land suitability evaluation for oilpalm production in Ghana. *European Journal of Agronomy*, 81, pp. 1-14. **Impact factor [3.186]**  
Publication Date: 2016-08-15

#### Spatial Variation in Tree Density and Estimated Aboveground Carbon Stocks in Southern Africa

Lulseged Tamene, Powell Mponela, Gudeta W. Sileshi, Jiquan Chen, Jerome Tondoh. (4/3/2016). Spatial Variation in Tree Density and Estimated Aboveground Carbon Stocks in Southern Africa. *Forests*, 7(3), pp. 57-75. **Impact factor [1.449]**  
Publication Date: 2016-03-04

### Non-ISI Journal Article (3)

#### Soil organic carbon stocks in semi-arid West African drylands: implications for climate change adaptation and mitigation

Jerome Tondoh, & Issa Ouedraogo, & Jules Bayala, & Lulseged Tamene, & Andrew Sila, & Tor-Gunnar Vagen, & Antoine Kalinganire. (4/7/2016). Soil organic carbon stocks in semi-arid West African drylands: implications for climate change adaptation and mitigation. *Soil*, 0, pp. 1-41.  
Publication Date: 2016-07-04

#### Priority regions for research on dryland cereals and legumes.

Glenn Graham Hyman, Elizabeth Barona, Chandrashekhara Biradar, Edward Guevara, John Dixon, Steve Beebe, Silvia Elena Castaño, Tunrayo Alabi, Murali Krishna Gumma, Shoba Sivasankar, Ovidio Rivera, Herlin Espinosa, Jorge Cardona. (13/5/2016). Priority regions for research on dryland cereals and legumes. *F1000Research*, n/a, pp. 1-20.  
Publication Date: 2016-05-13

#### Determinants of integrated soil fertility management technologies adoption by smallholder farmers in the Chinyanja Triangle of Southern Africa

Powell Mponela, & Ruth Magreta, & Job Maguta Kihara, & Gift Ndengu, & Lulseged Tamene, & Nelson Mango. (25/8/2016). Determinants of integrated soil fertility management technologies adoption by smallholder farmers in the Chinyanja Triangle of Southern Africa. *Land Use Policy*, 59 (x), pp. 38-48.

Publication Date: 2016-08-25

Project: Africa RISING - Ethiopian highlands

## Book Chapters (1)

### [Selection and socio-economic and biophysical characterization of Gumara-Maksegnit watershed research site](#)

Wondimu Bayu, Feras M. Ziadat, Birru Yitaferu, Theib Oweis, Andreas Klik, Hailu Kendie Addis, Fawzi Karajeh, Yonas Worku, Rolf Sommer. (31/12/2016). Selection and socio-economic and biophysical characterization of Gumara-Maksegnit watershed research site, in "Mitigating land degradation and improving livelihood: An integrated approach". New York, United States: Rutledge, Taylor & Francis Group.

Publication Date: 2016-12-31

Project: [Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia](#)

## Reports/Working Papers (1)

### [Farming household types and their characterization in complex crop-livestock smallholder agricultural systems for contextual analysis and extension intervention: case of Riviridzi Catchment in Ntcheu](#)

Powell Mponela, & Lulseged Tamene, & Gift Ndengu, & Quang Bao Le. (30/1/2016). Farming household types and their characterization in complex crop-livestock smallholder agricultural systems for contextual analysis and extension intervention: case of Riviridzi Catchment in Ntcheu. Amman, Jordan: CRP on Dryland Systems.

Publication Date: 2016-01-30

## Other (8)

### [Agricultural systems dynamics framework for the Ntcheu-Changara Transect](#)

Lulseged Tamene, & Powell Mponela, & Quang Bao Le, & Gift Ndengu. (19/1/2016). Agricultural systems dynamics framework for the Ntcheu-Changara Transect. Lilongwe, Malawi: aInternational Centre for tropical Agriculture.

Type: [Presentation](#) | Publication Date: 2016-01-19

### [Performance of climbing variety DC80-263](#)

Lulseged Tamene, Powell Mponela, Barthlomew Chataika, Rowland Chirwa. (22/1/2016). Performance of climbing variety DC80-263.

Type: [Brief](#) | Publication Date: 2016-01-22

Project: [Agro-ecological intensification in Malawi through action research with smallholder farmers](#)

### [Narrowing Common Bean Yield Gap and Improving Productivity Using Organic Soil Amendments within Smallholder Farming Systems of Sub-Saharan Africa](#)

(2016).Narrowing Common Bean Yield Gap and Improving Productivity Using Organic Soil Amendments within Smallholder Farming Systems of Sub-Saharan Africa [Brochure]. Author

Type: [Poster](#) | Publication Date: 2016-03-04

Project: [Agro-ecological intensification in Malawi through action research with smallholder farmers](#)

### [Drought tolerant bean varieties offer hope to smallholder farmers in Malawi](#)

(2016).Drought tolerant bean varieties offer hope to smallholder farmers in Malawi [Brochure]. Author

Type: [Poster](#) | Publication Date: 2016-03-22

### [Exploring dryland cereals and legumes for addressing food security: ATLAS DCL CGIAR, Research Program on Dryland Cereals and Legumes Agri-Food Systems](#)

Silvia Elena Castaño, Glenn Graham Hyman, Ovidio Rivera, Herlin Espinosa. (30/11/2016). Exploring dryland cereals and legumes for addressing food security: ATLAS DCL CGIAR, Research

Program on Dryland Cereals and Legumes Agri-Food Systems. URL: <http://csi.maps.arcgis.com/apps/MapSeries/index.html?appid=615f80eb02f3460187e34ee207c557bc/handle.net/10568/75630>  
Type: [Blog](#) | Publication Date: [2016-11-30](#)

[Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches](#)

Lulseged Tamene, Kindu Mekonnen, Kifle Woldearegay, Tewodros Tesfaye, Girma Tesfahun Kassie, Quang Bao Le. (30/12/2016). Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches. Cali, Colombia: International Center for Tropical Agriculture (CIAT).  
Type: [Poster](#) | Publication Date: [2016-12-30](#)

[Integrated watershed management to create multifunctional landscapes: implementation and monitoring](#)

Lulseged Tamene, Kifle Woldearegay, James Ellison, Kindu Mekonnen, Girma Tesfahun Kassie, Tilahun Amede, Quang Bao Le. (28/12/2016). Integrated watershed management to create multifunctional landscapes: implementation and monitoring. Cali, Colombia: International Center for Tropical Agriculture (CIAT).  
Type: [Presentation](#) | Publication Date: [2016-12-28](#)

[Can improved food legume varieties increase technical efficiency in crop production?](#)

Girma Tesfahun Kassie, Aden Aw-Hassan, Seid Ahmed Kemal, Peter Thorne, Lulseged Tamene, Mulugeta Yitayih Birhanu. (13/11/2016). Can improved food legume varieties increase technical efficiency in crop production?  
Type: [Presentation](#) | Publication Date: [2016-11-13](#)  
Project: [Africa RISING \(Research in Sustainable Intensification for the Next Generation\) PVS Barley and Faba Bean](#)

## CIP – International Potato Center (3)

### ISI Journal Article (1)

#### Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement

Dorcus Chepkeis Gemenet, Willmar Leiser, Francesca Beggi, Ludger Herrmann, Vincent Vadez, Fred Rattunde, Eva Weltzien, Charles Hash, Andreas Buerkert, Bettina Haussmann. (23/9/2016). Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement. *Frontiers in Plant Science*, 7. **Impact factor [4.495]**  
Publication Date: 2016-09-23

### Non-ISI Journal Article (1)

#### Benchmarking Farmers' Economic and Social Status in Anantapuramu and Kurnool Arid Districts of Andhra Pradesh for Probable Introduction of Potato Crop

Rajesh K. Rana, Sushma Arya, Sanjay Kumar, BP Singh, Gurram Adinarayana, Kumar Shalander, Roberto Quiroz, Mohinder Kadian. (1/2/2016). Benchmarking Farmers' Economic and Social Status in Anantapuramu and Kurnool Arid Districts of Andhra Pradesh for Probable Introduction of Potato Crop. *Economic Affairs*, 60(4), pp. 699-706.  
Publication Date: 2016-02-01

### Other (1)

#### Monitoring, Evaluation and Learning Platform: System Design & Architecture

Mousa, A., B.Ayyash, M.Khan, J.Omari, C.Biradar, P.Bravo Sosa, C.Proietti, P.Cabello Roca, M.Al-Najdawi, B.Mazlom, E.Bonaiuti, V.Graziano (2016, July 16). Monitoring, Evaluation and Learning Platform: System Design & Architecture [Manual].  
Type: **Manual** | Publication Date: 2016-07-16

## ICARDA – The International Center for Agriculture Research in the Dry Areas (200)

### ISI Journal Articles (27)

#### Multifaceted Impacts of Sustainable Land Management in Drylands: A Review

Marques M J; Schwilch G; Lauterburg N; Crittenden S; Tesfai M; Stolte J; Zdruli P; Zucca C; Petursdottir T; Evelpidou N; Karkani A; Asli-Yilmazgi Y; Panagopoulos T; Yirdaw E; Kanninen M; Rubio J L; Schmiedel U; Doko A, 2016. Multifaceted Impacts of Sustainable Land Management in Drylands; a Review. *Sustainability* 8(2), 177; doi:10.3390/su8020177 **Impact factor [0.942]**  
Publication Date: 2016-02-20

#### A methodology to estimate equity of canal water and groundwater use at different spatial and temporal scales: a geo-informatics approach

Usman Awan, Arif Anwar, Waqas Ahmad, Mohsin Hafeez. (24/2/2016). A methodology to estimate equity of canal water and groundwater use at different spatial and temporal scales: a geo-informatics approach. *Environmental Earth Sciences*, 409(75). **Impact factor [1.765]**  
Publication Date: 2016-02-24

Project: The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate

#### Reduction of winter wheat yield losses caused by stripe rust through fungicide management

Ram Sharma, & Kumarse Nazari, & Amir Amanov, & Zafar Ziyaev. (24/5/2016). Reduction of winter wheat yield losses caused by stripe rust through fungicide management. *journal of phytopathology*, 164, pp. 671-677. **Impact factor [0.945]**  
Publication Date: 2016-05-24

Project: The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate

#### Optimizing Use of Water for Cotton Production using Evapotranspiration-based Irrigation Scheduling Technique in the Fergana Valley, Uzbekistan

Shukhrat Mukhamedjanov, & Azamat Mukhamedjanov, & Tulkun Yuldashev, & Victor Dukhovny. (20/12/2016). Optimizing Use of Water for Cotton Production using Evapotranspiration-based Irrigation Scheduling Technique in the Fergana Valley, Uzbekistan. *Annals of Arid Zone*, 55 (3&4), pp. 165-172. **Impact factor [0.17]**  
Publication Date: 2016-12-20

Project: The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate

#### Timely monitoring of Asian Migratory locust habitats in the Amudarya delta, Uzbekistan, using time series of satellite remote sensing vegetation index

Fabian Low, Chandrashekar Biradar. (9/9/2016). Timely monitoring of Asian Migratory locust habitats in the Amudarya delta, Uzbekistan, using time series of satellite remote sensing vegetation index. *Journal of Environmental Management*, 183, pp. 562-575. **Impact factor [3.131]**  
Publication Date: 2016-09-09

Project: The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate

#### Evaluation of CropSyst model for clusterbean under hot arid condition

Ramesh Kumar, Narendra Dev Yadava, Amit Kumawat, Vinay Nangia, Mariya Glazirina, Vijay Singh Rathore, Moti Lal Soni, Birbal Meel. (31/12/2016). Evaluation of CropSyst model for clusterbean under hot arid condition. *Legume Research*, 39. **Impact factor [0.18]**

Publication Date: 2016-12-31

Project: **Improving Crop and Water Productivity in Indira Gandhi Canal Command Area (IGNP)**

#### Potential anthelmintic effect of *Capparis spinosa* (Capparidaceae) as related to its polyphenolic content and antioxidant activity

Hafidh Akkari, Fatma B'chir, Soumaya Hajaji, Mourad Rekik, E. Sebai, H. Hamza, Mohamed Aziz Darghouth, Mohamed Gharbi. (30/11/2016). Potential anthelmintic effect of *Capparis spinosa* (Capparidaceae) as related to its polyphenolic content and antioxidant activity. *Veterinari Medicina*, 61(6), pp. 308-316. **Impact factor [0.560]**

Publication Date: 2016-11-30

#### Financial incentives: Possible options for sustainable rangeland management?

Mounir Louhaichi, Jutta Werner, Yigezu Yigezu, Tamer El-Shater, Mohamed Ahmed. (4/8/2016). Financial incentives: Possible options for sustainable rangeland management?. *Journal of Environmental Management*, 180, pp. 493-503. **Impact factor [3.131]**

Publication Date: 2016-08-04

Project: **Enhancing Food Security in Arab Countries Phase II (OFID)**

#### Determinants of market value of goats in Afghanistan

Srinivas Tawva, Aden Aw-Hassan, Javed Rizvi, Yashpal Singh Saharawat. (9/9/2016). Determinants of market value of goats in Afghanistan. *Indian Journal of Animal Sciences*, 89(9), pp. 1068-1072. **Impact factor [0.174]**

Publication Date: 2016-09-09

Project: **Community Livestock and Agriculture Project (CLAP)**

#### First Molecular Identification and Genetic Characterization of *Theileria lestoquardi* in Sheep of the Maghreb Region

Mohammed Rijeibi, Mohamed Aziz Darghouth, Mourad Rekik, B. Amor, L. Sassi, Mohamed Gharbi. (30/6/2016). First Molecular Identification and Genetic Characterization of *Theileria lestoquardi* in Sheep of the Maghreb Region. *Transboundary and Emerging Diseases*, 63(3), pp. 278-284. **Impact factor [2.714]**

Publication Date: 2016-06-30

#### Effects of conservation agriculture on crop productivity and water-use efficiency under an irrigated pigeonpea – wheat cropping system in the western Indo-Gangetic Plains

Das, T., Bandyopadhyay, K., Bhattacharya, R., Sudhishri, S., Sharma, A., Behera, U., Bhar, L. Effects of conservation agriculture on crop productivity and water-use efficiency under an irrigated pigeonpea–wheat cropping system in the western Indo-Gangetic Plains. *The Journal of Agricultural Science*, 1-16. **Impact factor [1.157]**

Publication Date: 2016-01-19

#### Extreme Wildlife Declines and Concurrent Increase in Livestock Numbers in Kenya: What Are the Causes?

Joseph O. Ogotu, & Hans-Peter Piepho, & Mohammed Said, & Gordon Otieno Ojwang, & Lucy Njino, & Shem Kifugo, & Patrick Wargute. (27/9/2016). Extreme Wildlife Declines and Concurrent Increase in Livestock Numbers in Kenya: What Are the Causes?. *PLOS ONE*, 11, pp. 1-46. **Impact factor [3.057]**

Publication Date: 2016-09-27

[CART and IDC – based classification of irrigated agricultural fields using multi-source satellite data](#)  
Virupakshagowda. C. Patil, Khalid A. Al-Gaadi , Rangaswamy Madugundu, ElKamil H. M. Tola, Ahmed M. Zeyadaa, Samy Marey, Chandrashekhar Biradar. (7/8/2016). CART and IDC – based classification of irrigated agricultural fields using multi-source satellite data. Geocarto International, /, pp. 1-19. **Impact factor [1.380]**  
Publication Date: **2016-08-07**

[Quantification of Agricultural Water Productivity at Field Scale and Its Implication in On-Farm Water Management](#)  
Rangaswamy Madugundu, Khalid A. Al-Gaadi, ElKamil H. M. Tola, Virupakshagowda. C. Patil, Chandrashekhar Biradar. (6/10/2016). Quantification of Agricultural Water Productivity at Field Scale and Its Implication in On-Farm Water Management. Journal of the Indian Society of Remote Sensing, /, pp. 1-14. **Impact factor [0.676]**  
Publication Date: **2016-10-06**

[A user-friendly interactive tool for estimating reference ET using ASCE standardized Penman-Monteith equation](#)  
Prasanna Gowda, Terry A. Howell, Roland Louis Baumhardt, Dana O. Porter, Thomas H. Marek, Vinay Nangia. (31/1/2016). A user-friendly interactive tool for estimating reference ET using ASCE standardized Penman-Monteith equation. Applied Engineering in Agriculture, 32. **Impact factor [0.57]**  
Publication Date: **2016-01-31**  
Project: **The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate**

[Identification and Characterization of Salt Tolerance of Wheat Germplasm Using a Multivariable Screening Approach](#)  
Benedict Chijioke Oyiga, Michael Baum, Francis Chuks Ogbonnaya, Jens Leon, Agim Ballvora. (6/6/2016). Identification and Characterization of Salt Tolerance of Wheat Germplasm Using a Multivariable Screening Approach. Journal of Agronomy and Crop Science, 202, pp. 472-485. **Impact factor [2.565]**  
Publication Date: **2016-06-06**  
Project: **The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate**

[Soil indicators to assess the effectiveness of restoration strategies in dryland ecosystems](#)  
Edoardo Costantini, Cristina Branquinho, Alice Nunes, Gudrun Schwilch, Ilan Stavi, Alejandro Valdecantos, Claudio Zucca. (10/3/2016). Soil indicators to assess the effectiveness of restoration strategies in dryland ecosystems. Solid Earth, 7(2), pp. 397-414. **Impact factor [2.083]**  
Publication Date: **2016-03-10**

[Ecological restoration across the Mediterranean Basin as viewed by practitioners](#)  
Alice Nunes, Graca Oliveira, Teresa Mexia, Alejandro Valdecantos, Claudio Zucca, Edoardo Costantini, Eleni M. Abraham, Apostolos P. Kyriazopoulos, Ayman Salah, Rüdiger Prasse, Otilia Correia, Sarah Milliken, Benz Kotzenj, Cristina Branquinho. (27/5/2016). Ecological restoration across the Mediterranean Basin as viewed by practitioners. Science of the Total Environment, 566-567, pp. 722-732. **Impact factor [3.976]**  
Publication Date: **2016-05-27**



### Enhancing the performance of regional land cover mapping

Weicheng Wu, Claudio Zucca, Fadi Karam, Guangping Liu. (20/7/2016). Enhancing the performance of regional land cover mapping. *International Journal of Applied Earth Observation and Geoinformation*, 52, pp. 422-432. **Impact factor [3.798]**  
Publication Date: 2016-07-20

### A Knowledge-Based Approach for Mapping Land Degradation in the Arid Rangelands of North Africa

Hamid Mahyou, Bernard Tychon, Riad Balaghi, Mounir Louhaichi, Jamal Mimouni. (2/2/2016). A Knowledge-Based Approach for Mapping Land Degradation in the Arid Rangelands of North Africa. *land degradation & development*, 27, pp. 1574-1585. **Impact factor [8.145]**  
Publication Date: 2016-02-02

### Farmers' Adaptation to Groundwater Shortage in the Dry Areas: Improving Appropriation or Enhancing Accommodation?

Aymen Frija, Ali Chebil, Stijn Speelman. (17/4/2016). Farmers' Adaptation to Groundwater Shortage in the Dry Areas: Improving Appropriation or Enhancing Accommodation? *IRRIGATION AND DRAINAGE*, 65(5), pp. 691-700. **Impact factor [0.565]**  
Publication Date: 2016-04-17

### Effets des caractéristiques démographiques et économiques des consommateurs sur la perception de la qualité des viandes en Tunisie

Dhraief, M.Z., Oueslati, M., Dhehibi, B., Chemak, F. 2016. Effets des caractéristiques démographiques et économiques des consommateurs sur la perception de la qualité des viandes en Tunisie. *New Medit*, Volume 15(1), pp. 36-41. **Impact factor [0.3777]**  
Publication Date: 2016-03-21

### Grasslands in 'Old World' and 'New World' Mediterranean-climate zones: past trends, current status and future research priorities

Porqueddu, C., Ates, S., Louhaichi, M., Kyriazopoulos, A. P., Moreno, G., Pozo, A., ... & Nichols, P. G. H. (2016). Grasslands in 'Old World' and 'New World' Mediterranean-climate zones: past trends, current status and future research priorities. *Grass and Forage Science*. **Impact factor [1.922]**  
Publication Date: 2016-01-11

Project: **Enhancing Sustainability and Fodder Production of Low Land Pastures through integrated Alley Cropping and Conservation Agriculture in Arid Agro-Pastoral Ecosystems in Jordan, Yemen and Tunisia**

### Climate Change and Agriculture: Adaptation Strategies and Mitigation Opportunities for Food Security in South Asia and Latin America

Jat ML, Dagar JC, Sapkota TB, Yadvinder-Singh, Govaerts B, Ridaura SL, Saharawat YS, Sharma RC, Tatarwal JP, Hobbs H, Stirling C. 2015 **Impact factor [3.893]**  
Publication Date: 2016-04-01

Project: **Increasing Food Legume production by small farmers to strengthen food and nutrition security through adoption of improved technologies and governance within south-south cooperation**

### Long term effect of conservation agriculture in maize rotations on total organic carbon, physical and biological properties of a sandy loam soil in north-western Indo- Gangetic Plains

Chitar Mal Parihar, Malu Ram Yadav, Shankar Lal Jat, A.K. Singh, Bhupender Kumar, Sanatan Pradhan, Debashis Chakraborty, M.L. Jat, R.K. Jat, Kanwar Lal Sahrawat, Om Parkash Yadav. (2/4/2016). Long term effect of conservation agriculture in maize rotations on total organic carbon, physical and biological properties of a sandy loam soil in north-western Indo- Gangetic Plains. *Soil & Tillage Research*, 161, pp. 116-128. **Impact factor [2.622]**  
Publication Date: 2016-04-02

### Wheat and barley seed system in Syria: How diverse are wheat and barley varieties and landraces from farmer's fields?

Zewdie Bishaw, Paul C. Struik, A.J.G. van Gastel. (20/4/2016). Wheat and barley seed system in Syria: How diverse are wheat and barley varieties and landraces from farmer's fields? *International Journal of Plant Production*, 9(1), pp. 171-150. **Impact factor [0.767]**

Publication Date: 2016-04-20

Project: **Enhancement of Food Security in the Arab Region (AFESD/KFAED)**

### Comparative performance of remote sensing methods in assessing wheat performance under Mediterranean conditions

S. Yousfi, N. Kellas, L. Saidi, Z. Benlakhel, L. Chaou, D. Siad, F. Herda, M. Karrou, O. Vergara, A. Gracia, J.L. Luis Araus, M.D. Serret: 2015. Comparative performance of remote sensing methods in assessing wheat performance under Mediterranean conditions. *Agricultural Water Management* 164 (2016) 137–147 **Impact factor [2.286]**

Publication Date: 2016-01-18

Project: **Adaptation to Climate Change of the Mediterranean Agricultural Systems – ACLIMAS**

### Effect of the infection with the nematode *Haemonchus contortus* (Strongylida: Trichostrongylidae) on the haematological, biochemical, clinical and reproductive traits in rams

Mariem Rouatbi, Mohamed Gharbi, Mohammed Rijeibi, Imene Ben Salem, Hafidh Akkari, Narjess Lassoued, Mourad Rekik. (30/8/2016). Effect of the infection with the nematode *Haemonchus contortus* (Strongylida: Trichostrongylidae) on the haematological, biochemical, clinical and reproductive traits in rams. *Onderstepoort Journal of Veterinary Research*, 83(1), pp. 1-8. **Impact factor [1.26]**

Publication Date: 2016-08-30

Project: **Integrated Crop-Livestock Conservation Agriculture for Sustainable Intensification of Cereal-based Systems in North Africa and Central Asia (CLCA)**

## Non-ISI Journal Articles (19)

### Growth in Total Factor Productivity in the Egyptian Agriculture Sector: Growth Accounting and Econometric Assessments of Sources of Growth

Boubaker Dhehibi, Ali Ahmed Ibrahim El Shahat, Aymen Frija, Aden Aw-Hassan. (11/1/2016). Growth in Total Factor Productivity in the Egyptian Agriculture Sector: Growth Accounting and Econometric Assessments of Sources of Growth. *Sustainable Agricultural Research*, 5(1), pp. 1-14.

Publication Date: 2016-01-11

Project: **Agricultural Productivity with an Emphasis on Water Constraints in the Middle East and North Africa (MENA)**

### Spectral Reflectance Models for Characterizing Winter Wheat Genotypes

Sarah Ajayi, Srirama Krishna Reddy, Prasanna Gowda, Qingwu Xue, Jackie Rudd, Gautam Pradhan, Shuyu Liu, Bob Stewart, Chandrashekar Biradar, Kirk E. Jessup. (3/1/2016). Spectral Reflectance Models for Characterizing Winter Wheat Genotypes. *JOURNAL OF CROP IMPROVEMENT*, 30(2), pp. 176-195.

Publication Date: 2016-01-03

### A Brief Guide for Research Engagement with Development Partners

Aden Aw-Hassan, Leigh Winowiecki. (Accepted on 31/12/2016). A Brief Guide for Research Engagement with Development Partners.

Publication Date: 2016-12-31

Project: **Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale**

#### Editorial: Improving Water Productivity in Dry Areas

Vinay Nangia, Narendra Dev Yadava. (30/3/2016). Editorial: Improving Water Productivity in Dry Areas. *Annals of Arid Zones*, 55(3&4), pp. 63-66.

Publication Date: 2016-03-30

Project: [India 2010/11 Collaborative Program: Small Ruminants' Productivity and Integrating Crop-livestock System and Rangeland Management](#)

#### Soil Organic Carbon and Nitrogen Status Under Fallow and Cereal-Legume Species in a Tunisian Semi-Arid Condition

Mouna Mechri, Somanagouda Patil, Wafa Saidi, Rim Hajri, Tarek Jarrahi, Azaiez Gharbi, Naceur Jedidi. (30/11/2016). Soil Organic Carbon and Nitrogen Status Under Fallow and Cereal-Legume Species in a Tunisian Semi-Arid Condition. *European Journal of Earth and Environment*, 3(1), pp. 1-13.

Publication Date: 2016-11-30

#### Optimizing use of Water for Cotton Production using Evapotranspiration-based Irrigation Scheduling Technique in the Fergana Valley, Uzbekistan

Shukhrat Mukhamedjanov, Azamat Mukhamedjanov, Tulkun Yuldashev, Victor Dukhovny. (31/12/2016). Optimizing use of Water for Cotton Production using Evapotranspiration-based Irrigation Scheduling Technique in the Fergana Valley, Uzbekistan. *Annals of Arid Zone*, 55.

Publication Date: 2016-12-31

#### Measurement of the aboveground biomass of some rangeland species using a digital nondestructive technique

Mohamed Tarhouni, Farah Ben Salem, Abderrazak Tlili, Azaiez Ouled Belgacem, Mohamed Neffati, Mounir Louhaichi. (27/6/2016). Measurement of the aboveground biomass of some rangeland species using a digital nondestructive technique. *Botany Letters*, 163(3), pp. 281-287.

Publication Date: 2016-06-27

#### Priority regions for research on dryland cereals and legumes

Glenn Graham Hyman, Elizabeth Barona, John Dixon, Tunrayo Alabi, Shoba Sivasankar, Murali Krishna Gumma, Edward Guevara, Silvia Elena Castaño, Ovidio Rivera, Herlin Espinosa, Jorge Cardona, Steve Beebe, Chandrashekhar Biradar. (13/5/2016). Priority regions for research on dryland cereals and legumes. *F1000Research*, 5, pp. 1-20.

Publication Date: 2016-05-13

#### Evaluation of CropSyst Model for Simulating Green Area Index, Soil Water and Yield of Psyllium in Hyper Arid Partially Irrigated Zone of Rajasthan

Moti Lal Soni, Narendra Dev Yadava, Sita Ram Jat, I. L. Gulati, Vijay Singh Rathore, Birbal Meel, Amit Kumawat, Mariya Glazirina. (31/12/2016). Evaluation of CropSyst Model for Simulating Green Area Index, Soil Water and Yield of Psyllium in Hyper Arid Partially Irrigated Zone of Rajasthan. *Annals of Arid Zone*, 55.

Publication Date: 2016-12-31

Project: [Improving Crop and Water Productivity in Indira Gandhi Canal Command Area \(IGNP\)](#)

#### Relative Yield, Profit and Water Productivity of Crops in IGNP Stage-I

Vijay Singh Rathore, Narendra Dev Yadava, Vinay Nangia, Ramesh Kumar, Birbal Meel, Moti Lal Soni, Amit Kumawat. (31/12/2016). Relative Yield, Profit and Water Productivity of Crops in IGNP Stage-I. *Annals of Arid Zone*, 55.

Publication Date: 2016-12-31

Project: [Improving Crop and Water Productivity in Indira Gandhi Canal Command Area \(IGNP\)](#)

[Energy Consumption in Onion and Potato Production within the Province of El Hajeb \(Morocco\): Towards Energy Use Efficiency in Commercialized Vegetable Production](#)

Khalil Allali, Boubaker Dhehibi, Shinan Kassam, Aden Aw-Hassan. (15/12/2016). Energy Consumption in Onion and Potato Production within the Province of El Hajeb (Morocco): Towards Energy Use Efficiency in Commercialized Vegetable Production. *Journal of Agricultural Science*, 9(1), pp. 118-127.

Publication Date: [2016-12-15](#)

[Démarche innovante pour la création d'une chaîne de valeur "Agneau Barbarin de Sidi-Bouزيد"](#)

Sonia Bedhief, Hamed Daly, Meriem Oueslati, Mohamed Zied Dhraief, Sourour Abidi, Aziza Zoghalmi, Salah Ben Youssef, Hichem Ben Salem, Ali Nefzaoui, Shinan Kassam, Boubaker Dhehibi. (30/11/2016). Démarche innovante pour la création d'une chaîne de valeur "Agneau Barbarin de Sidi-Bouزيد". *Annales de l'INRAT*, 89, pp. 187-190.

Publication Date: [2016-11-30](#)

[Innovation Platform, Farmers' Organizations, and Market to Empower Small Farmers Benefit from an Autochthonous Meat Sheep Value Chain Under Low Input Production Systems](#)

Sonia Bedhief, Hamed Daly, Boubaker Dhehibi, Mohamed Zied Dhraief, Meriem Oueslati, Anis Gamoudi, Bisma Rebhi, Seif Allah Abbassi. (30/11/2016). Innovation Platform, Farmers' Organizations, and Market to Empower Small Farmers Benefit from an Autochthonous Meat Sheep Value Chain Under Low Input Production Systems. *Options Mediterraneenes*, 115, pp. 327-331.

Publication Date: [2016-11-30](#)

[Adaptive Policy Responses to Climate Change Scenarios in the Musi Catchment, India](#)

Brian Davidson, Biju Alummoottil George, Hector Malano, Petra Hellegers. (30/11/2016). Adaptive Policy Responses to Climate Change Scenarios in the Musi Catchment, India.

Publication Date: [2016-11-30](#)

[First report of the in vitro nematocidal effects of camel milk](#)

Dhouha Alimi, Soumaya Hajaji, Mourad Rekik, Amel Abidi, Mohamed Gharbi, Hafidh Akkari. (15/9/2016). First report of the in vitro nematocidal effects of camel milk. *Veterinary Parasitology*, 228, pp. 153-159.

Publication Date: [2016-09-15](#)

[Agricultural Growth Accounting and Total Factor Productivity in Jordan: Trends, determinants, and future challenges](#)

Boubaker Dhehibi, Samia Akroush , Aden Aw-Hassan. (21/1/2016). Agricultural Growth Accounting and Total Factor Productivity in Jordan: Trends, determinants, and future challenges. *International Journal of Productivity Management and Assessment Technologies*, 4(1), pp. 1-17.

Publication Date: [2016-01-21](#)

Project: [Agricultural Productivity with an Emphasis on Water Constraints in the Middle East and North Africa \(MENA\)](#)

[Performance evaluation of ground water management instruments: The case of irrigation sector in Tunisia](#)

Aymen Frija, Boubaker Dhehibi, Ali Chebil, Karen Villholth. (30/3/2016). Performance evaluation of ground water management instruments: The case of irrigation sector in Tunisia. *Groundwater for Sustainable Development*, 1(1-2), pp. 23-32.

Publication Date: [2016-03-30](#)

Project: [Agricultural Productivity with an Emphasis on Water Constraints in the Middle East and North Africa \(MENA\)](#)

### Initial Assessment of Medicinal Plants Across the Libyan Mediterranean Coast

Mounir Louhaichi, & Amin Khatib Salkini, & H.E. Estita, & S. Belkhir. (8/11/2016). Initial Assessment of Medicinal Plants Across the Libyan Mediterranean Coast. *Advances in Environmental Biology*, 5(2), pp. 359-370.

Publication Date: 2016-11-08

### Agricultural Productivity in the WANA Region

Roberto Telleria, & Aden Aw-Hassan. (9/11/2016). Agricultural Productivity in the WANA Region. *Journal of Comparative Asian Development*, 10, pp. 157-185.

Publication Date: 2016-11-09

## Manuscripts-Unpublished (4)

### A reliable and non-destructive method for estimating forage shrub cover and biomass in arid environments using digital vegetation charting technique

Mounir Louhaichi, Sawsan Hassan, Kathryn Clifton, Douglas E. Johnson. (5/1/2016). A reliable and non-destructive method for estimating forage shrub cover and biomass in arid environments using digital vegetation charting technique. Amman, Jordan: The International Center for Agriculture Research in the Dry Areas.

Publication Date: 2016-01-05

### Socio-Economic Considerations of Salinity: Descriptive Statistics of the Iraq Sampled Farms

Mohammed, S., B.Dhehibi, A.Aw-Hassan, R.Telleria (2016, March 31). Socio-Economic Considerations of Salinity: Descriptive Statistics of the Iraq Sampled Farms [Mobile Message]. Retrieved December 31, 2016).

Publication Date: 2016-03-31

Project: Iraq Salinity project

### Enhancing adoption of agricultural technologies requiring high initial investment: The case of small and medium holder farmers

Yigezu Yigezu, Tamer El-Shater, Amin Mugeru, Aden Aw-Hassan, Colin Piggin, Atef Haddad, Yaseen Khalil, Stephen Peter Loss, Mounir Louhaichi. (20/10/2016). Enhancing adoption of agricultural technologies requiring high initial investment: The case of small and medium holder farmers.

Publication Date: 2016-10-20

Project: Enhancing Food Security in Arab Countries Phase II (OFID)

### Agricultural livelihood types and type-specific drivers of production diversification: an evidence from Karauzyak, Karakalpakstan, Uzbekistan

Akmal Akramkhanov, Adkham Akbarov, Quang Bao Le. (30/12/2016). Agricultural livelihood types and type-specific drivers of production diversification: an evidence from Karauzyak, Karakalpakstan, Uzbekistan.

Publication Date: 2016-12-30

## Book Chapters (9)

### Chapter 21: Economics of Land Degradation and Improvement in Uzbekistan

Aden Aw-Hassan, Vitalii Korol, Nariman Nishanov, Utkur Djanibekov, Olena Dubovyk, Alisher Mirzabaev. (23/4/2016). Chapter 21: Economics of Land Degradation and Improvement in Uzbekistan, in "Economics of Land Degradation and Improvement—A Global Assessment for Sustainable Development". Bonn, Germany: Springer International Publishing.

Publication Date: 2016-04-23

Project: An Assessment of the Economics of Land Degradation for Improved Land Management in Central Asia

[Demonstration and promotion of improved food barley, bread wheat and faba bean technologies](#)  
Andualem Tadesse, & Wondimu Bayu. (14/11/2016). Demonstration and promotion of improved food barley, bread wheat and faba bean technologies, in "Mitigating Land Degradation and Improving Livelihoods - An integrated watershed approach". New York, United States: Routledge Earthscan Studies in Natural Resource Management.

Publication Date: [2016-11-14](#)

Project: [Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia](#)

[Demonstration and evaluation of water harvesting and supplementary irrigation to improve agricultural production](#)

Erteban Wondifraw, & Hanibal Lemma. (13/11/2016). Demonstration and evaluation of water harvesting and supplementary irrigation to improve agricultural production, in "Mitigating Land Degradation and Improving Livelihoods - An integrated watershed approach". New York, United States: Routledge Earthscan Studies in Natural Resource Management.

Publication Date: [2016-11-13](#)

Project: [Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia](#)

[Chickpea participatory variety selection for the vertisol of the watershed](#)

Tewodros Tesfaye, & Getachew Tilahun, & Kibrsew Mulat. (14/11/2016). Chickpea participatory variety selection for the vertisol of the watershed, in "Mitigating Land Degradation and Improving Livelihoods - An integrated watershed approach". New York, United States: Routledge Earthscan Studies in Natural Resource Management.

Publication Date: [2016-11-14](#)

Project: [Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia](#)

[Economics of Land Degradation in Central Asia](#)

Alisher Mirzabaev, Jann Goedecke, Olena Dubovyk, Utkur Djanibekov, Quang Bao Le, Aden Aw-Hassan. (30/12/2016). Economics of Land Degradation in Central Asia, in "Economics of Land Degradation and Improvement - A Global Assessment for Sustainable Development". Berlin, Germany: Springer.

Publication Date: [2016-12-30](#)

[Mapping Desertification: Constraints and Challenges](#)

Pandi Zdruli, Michael Cherlet, Claudio Zucca. (30/11/2016). Mapping Desertification: Constraints and Challenges, in "Encyclopedia of Soil Science". New York, United States: CRC Press Taylor&Francis Group.

Publication Date: [2016-11-30](#)

[Socio-economic characterization of Gumara-Maksegnit watershed](#)

Yonas Worku, Teferi Alem, Solomon Abeyas, Hailu Kendie Addis, Ambachew Getenet, Yigezu Yigezu. (31/12/2016). Socio-economic characterization of Gumara-Maksegnit watershed, in "Mitigating Land Degradation and Improving Livelihoods: An Integrated Watershed Approach". New York, United States: Taylor & Francis Group.

Publication Date: [2016-12-31](#)

Project: [Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia](#)

[Selection and socio-economic and biophysical characterization of Gumara-Maksegnit watershed research site](#)

Wondimu Bayu, Feras M. Ziadat, Birru Yitaferu, Theib Oweis, Andreas Klik, Hailu Kendie Addis, Fawzi Karajeh, Yonas Worku, Rolf Sommer. (31/12/2016). Selection and socio-economic and

biophysical characterization of Gumara-Maksegnit watershed research site, in "Mitigating land degradation and improving livelihood: An integrated approach". New York, United States: Rutledge, Taylor & Francis Group.

Publication Date: 2016-12-31

Project: Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia

#### Adapatbility of vetch (*Vicia spp*)

Alemu Tarekegn, & Aynalem Haile. (14/11/2016). Adapatbility of vetch (*Vicia spp*), in "Mitigating Land Degradation and Improving Livelihoods - An integrated watershed approach". New York, United States: Routledge Earthscan Studies in Natural Resource Management.

Publication Date: 2016-11-14

Project: Reducing land degradation and farmers' vulnerability to climate change in the highland dry areas of north-western Ethiopia

### Proceedings (30)

#### A Digital Geo-referencing System for Monitoring Ground Cover in Drylands

Louhaichi, M., Washington-Allen, R., Clifton, K. (2015) A Digital Geo-Referencing System for Monitoring Ground Cover in Dry Land Ecosystems. UNCCD (United Nations Convention to Combat Desertification) 3rd Conference, Cancun Mexico

Publication Date: 2016-03-09

#### Screening for Cold Tolerant Cactus Species (*Opuntia ficus-indica*) for West Asia Region

Mounir Louhaichi, & Sawsan Hassan, & Serkan Ates, & Ali Nefzaoui. (5/1/2016). Screening for Cold Tolerant Cactus Species (*Opuntia ficus-indica*) for West Asia Region. Palermo, Italy: Paolo Inglese (Curator), & Innocenza Chessa.

Publication Date: 2016-01-05

#### Dynamic Crop Production Responses to Realizations of Weather and Production with Application in Jordan

David Boussios, & Paul V. Preckel, & Yigezu Yigezu, & Prakash Dixit. (5/5/2016). Dynamic Crop Production Responses to Realizations of Weather and Production with Application in Jordan. Montpellier, France: Jacques Wery (Curator), & Brigitte Cabantous.

Publication Date: 2016-05-05

#### Role of high-value, small-scale agricultural production in generating higher livelihoods for farm women in arid region of Rajasthan

Soma Srivastava, Anurag Saxena, Vinay Nangia. (31/12/2016). Role of high-value, small-scale agricultural production in generating higher livelihoods for farm women in arid region of Rajasthan..

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### [Effect of agriculture practices and stocking rates on performances of Barbarine ewes grazing on wheat stubble in Tunisian semi-arid conditions](#)

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### Progress Report: Increase livestock productivity to improve availability of animal proteins to the households and increased revenues and wellbeing of livestock keepers

Progress Report: Increase livestock productivity to improve availability of animal proteins to the households and increased revenues and wellbeing of livestock keepers

Type: [Donor Report](#) | Publication Date: [2016-12-31](#)

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### Guidelines and Procedures for Safe Food and Forage Crops Germplasm Movement

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### Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches

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### [Impacts of climate change on rangelands productivity in Western Asia](#)

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### [Decision tree classification for crop type mapping using Landsat 8 optical satellite imagery](#)

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[Réussir l'ensilage: conserver les fourrages pour une longue durée tout en gardant une bonne qualité](#)

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[Phenotypic and molecular characterization of cactus pear accessions from Mediterranean and Brazil collections](#)

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[Can improved food legume varieties increase technical efficiency in crop production?](#)

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[Identification of Farmer's Preferred Durum Wheat \(Triticum durum L\) Varieties in Southeastern Ethiopia](#)

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[Modeling the soil-water-crop-atmosphere system to improve crop and water productivity in Stage II of Indira Gandhi Canal Command Area](#)

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## ICRAF – World Agroforestry Center (23)

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#### [Spatial Variation in Tree Density and Estimated Aboveground Carbon Stocks in Southern Africa](#)

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#### [Perspectives in restoration: storage and pretreatments of seeds for better germination of Sudanian savanna-woodland species](#)

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Publication Date: **2016-03-04**

#### [Meat and milk production scenarios and the associated land footprint in Kenya](#)

Caroline K. Bosire, & Maarten S. Krol, & Kindu Mekonnen, & Joseph O. Ogutu, & Jan de Leeuw, & Mats Lannerstad, & Arjen Y. Hoekstra. (6/3/2016). Meat and milk production scenarios and the associated land footprint in Kenya. Agricultural Systems, 145, pp. 64-75. **Impact factor [2.867]**

Publication Date: **2016-03-06**

#### [Effects of extreme land fragmentation on wildlife and livestock population abundance and distribution](#)

Mohammed Said, Joseph O. Ogutu, Shem Kifugo, Ogeli Makui, Robin Reid, Jan de Leeuw. (21/10/2016). Effects of extreme land fragmentation on wildlife and livestock population abundance and distribution. Journal for Nature Conservation, 34, pp. 151-164. **Impact factor [2.220]**

Publication Date: **2016-10-21**

#### [Gender Differentiated Preferences for a Community-Based Conservation Initiative](#)

Aidan Keane, Heather Gurd, Dickson Kaelo, Mohammed Said, Jan de Leeuw, Marcus Rowcliffe, Katherine Homewood. (29/3/2016). Gender Differentiated Preferences for a Community-Based Conservation Initiative. PLOS ONE, 11(3), pp. 1-15. **Impact factor [3.057]**

Publication Date: **2016-03-29**

### Determinants of market value of goats in Afghanistan

Srinivas Tavva, Aden Aw-Hassan, Javed Rizvi, Yashpal Singh Saharawat. (9/9/2016). Determinants of market value of goats in Afghanistan. Indian Journal of Animal Sciences, 89(9), pp. 1068-1072. **Impact factor [ 0.174]**

Publication Date: 2016-09-09

Project: **Community Livestock and Agriculture Project (CLAP)**

### Non-ISI Journal Articles (2)

#### A Brief Guide for Research Engagement with Development Partners

Aden Aw-Hassan, Leigh Winowiecki. (Accepted on 31/12/2016). A Brief Guide for Research Engagement with Development Partners.

Publication Date: 2016-12-31

Project: **Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale**

#### Soil organic carbon stocks in semi-arid West African drylands: implications for climate change adaptation and mitigation

Jerome Tondoh, & Issa Ouedraogo, & Jules Bayala, & Lulseged Tamene, & Andrew Sila, & Tor-Gunnar Vagen, & Antoine Kalinganire. (4/7/2016). Soil organic carbon stocks in semi-arid West African drylands: implications for climate change adaptation and mitigation. Soil, 0, pp. 1-41.

Publication Date: 2016-07-04

### Manuscripts-Unpublished (1)

#### Régénération des arbres et amélioration des moyens de subsistance des petites exploitations agricoles en zone semi-aride dans l'Ouest du Burkina Faso

Bayala, J., B.Zon, P.Savadogo, B.Thiombiano (2016, January 26).Régénération des arbres et amélioration des moyens de subsistance des petites exploitations agricoles en zone semi-aride dans l'Ouest du Burkina Faso [Mobile Message].

Publication Date: 2016-01-26

### Reports/Working Papers (6)

#### Baseline characterization of the local stakeholders to promote the uptake of sustainable intensification of cereal-based farming system innovations in the Sudano-Sahelian zone of Mali

Joachim Binam, Catherine Dembele, Bougouna Sogoba, Adama Diakite, Arouna Bayoko. (30/11/2016). Baseline characterization of the local stakeholders to promote the uptake of sustainable intensification of cereal-based farming system innovations in the Sudano-Sahelian zone of Mali. Nairobi, Kenya: World Agroforestry Center.

Publication Date: 2016-11-30

Project: **Sustainable Intensification (SI) of Key Farming Systems in the Sudano-Sahelian Zone of West Africa (Africa RISING)**

#### Gender in decision making, access to and control over labor and extension services: A Perception survey in Burkina-Faso

Ademonla A. Djalalou-Dine Arinloye, & Mawa Karambiri, & Joachim Binam, & Patrice Savadogo, & Antoine Kalinganire, & Jules Bayala. (25/1/2016). Gender in decision making, access to and control over labor and extension services: A Perception survey in Burkina-Faso. Amman, Jordan: CGIAR Research Program on Dryland Systems.

Publication Date: 2016-01-25

### [Gender in decision making, access to and control over labor and extension services: A Perception survey in Niger](#)

Ademonla A. Djalalou-Dine Arinloye, & Sitou Lawani, & Patrice Savadogo, & Joachim Binam, & Antoine Kalinganire, & Jules Bayala. (28/1/2016). Gender in decision making, access to and control over labor and extension services: A Perception survey in Niger. Nairobi, Kenya: ICRAF.  
Publication Date: [2016-01-28](#)

### [Gender in decision making, access to and control over labor and extension services: A Perception survey in Mali](#)

Ademonla A. Djalalou-Dine Arinloye, Moussa Sacko, Mamadou Yoro Keita, Joachim Binam, Patrice Savadogo, Antoine Kalinganire, Jules Bayala. (25/1/2016). Gender in decision making, access to and control over labor and extension services: A Perception survey in Mali. Amman, Jordan: CGIAR Research Program on Dryland Systems.  
Publication Date: [2016-01-25](#)

### [Food banks and technology parks](#)

Antoine Kalinganire, & Catherine Dembele, & Akefetey Mamo. (18/1/2016). Food banks and technology parks.  
Publication Date: [2016-01-18](#)  
Project: [Building Biocarbon and Rural Development in West Africa - BIODÉV](#)

### [Restoration of Degraded Lands in West Africa Sahel: Review of experiences in Burkina Faso and Niger](#)

Bado, V., P.Savadogo (2016).Restoration of Degraded Lands in West Africa Sahel: Review of experiences in Burkina Faso and Niger. Publisher.  
Publication Date: [2016-02-01](#)  
Project: [Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale](#)

## **Datasets (1)**

### [Options by Context dataset by site](#)

Wafula, L., P.Sola (2016, January 01).Options by Context dataset by site [Dataset]. Retrieved May 01, 2017).  
Publication Date: [2016-01-01](#)  
Project: [Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale](#)

## **Other (5)**

### [Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale](#)

Leigh Winowiecki, Phosiso Sola, Fergus Sinclair, Lydia Wafula, Karl Hughes. (4/1/2016). Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale. Nairobi, Kenya: World Agroforestry Center (ICRAF).  
Type: [Brochure](#) | Publication Date: [2016-01-04](#)  
Project: [Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale](#)

### [Atlas of Land Restoration Options in East Africa and the Sahel](#)

Leigh Winowiecki, & Anne Kuria. (22/12/2016). Atlas of Land Restoration Options in East Africa and the Sahel.  
Type: [Internal Document](#) | Publication Date: [2016-12-22](#)

Fresh water, the reward of land restoration, flows in Ethiopia's dry zone: Success stories of how land restoration has transformed landscapes and livelihoods in four watersheds of Tigray, Northern Ethiopia

Anne Kuria, & Leigh Winowiecki. (10/11/2016). Fresh water, the reward of land restoration, flows in Ethiopia's dry zone: Success stories of how land restoration has transformed landscapes and livelihoods in four watersheds of Tigray, Northern Ethiopia. URL: <http://bit.ly/2fTTXhL>

Type: **Blog** | Publication Date: **2016-11-10**

Stakeholders mapping, analysis and engagement in Southern Mali

Joachim Binam, Bougouna Sogoba, Zemadim Birhanu, Catherine Dembele, Arouna Bayoko, Adama Diakite. (30/3/2016). Stakeholders mapping, analysis and engagement in Southern Mali. Nairobi, Kenya: World Agroforestry Center.

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Sustainable Intensification (SI) of Key Farming Systems in the Sudano-Sahelian Zone of West Africa (Africa RISING)**

Jujube and tamarind for early fruit production to enhance food and nutrition security in southern Mali

Catherine Dembele, & Ouodiouma Samake, & Brehima B. Kone, & F.T. Traoré, & Adama Diakite, & Joachim Binam, & Modibo Doumbia, & Antoine Kalinganire. (30/3/2016). Jujube and tamarind for early fruit production to enhance food and nutrition security in southern Mali. Nairobi, Kenya: World Agroforestry Center.

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Sustainable Intensification (SI) of Key Farming Systems in the Sudano-Sahelian Zone of West Africa (Africa RISING)**

## ICRISAT – International Crops Research Institute for the Semi-Arid Tropics (84)

### ISI Journal Articles (39)

[Long term effect of conservation agriculture in maize rotations on total organic carbon, physical and biological properties of a sandy loam soil in north-western Indo- Gangetic Plains](#)

Chitar Mal Parihar, Malu Ram Yadav, Shankar Lal Jat, A.K. Singh, Bhupender Kumar, Sanatan Pradhan, Debashis Chakraborty, M.L. Jat, R.K. Jat, Kanwar Lal Sahrawat, Om Parkash Yadav. (2/4/2016). Long term effect of conservation agriculture in maize rotations on total organic carbon, physical and biological properties of a sandy loam soil in north-western Indo- Gangetic Plains. *Soil & Tillage Research*, 161, pp. 116-128. [Impact factor \[2.622\]](#)  
Publication Date: [2016-04-02](#)

[Long-term annual burning of grassland increases CO2 emissions from soils](#)

Khatab Abdalla, & Pauline Chivenge, & Colin Everson, & Olivier Mathieu, & Mathieu Thevenot, & Vincent Chaplot. (15/7/2016). Long-term annual burning of grassland increases CO2 emissions from soils. *Geoderma*, 282, pp. 80-86. [Impact factor \[2.855\]](#)  
Publication Date: [2016-07-15](#)

[Maize productivity and profitability in Conservation Agriculture systems across agro-ecological regions in Zimbabwe: A review of knowledge and practice](#)

Paramu Mafongoya, Leonard Rusinamhodzi, Shephard Siziba, Christian Thierfelder, Brighton Mvumi, Brighton Nhau, Lewis Hove, Pauline Chivenge. (11/1/2016). Maize productivity and profitability in Conservation Agriculture systems across agro-ecological regions in Zimbabwe: A review of knowledge and practice. *Agriculture, Ecosystems and Environment*, 220, pp. 211-225. [Impact factor \[3.564\]](#)  
Publication Date: [2016-01-11](#)

[Satellite imagery and household survey for tracking chickpea adoption in Andhra Pradesh, India](#)

Murali Krishna Gumma, Deevi KumaraCharyulu, Mohammed Irshad Ahmed, Rajeev Varshney, Pooran Gaur, Anthony Whitbread. (11/4/2016). Satellite imagery and household survey for tracking chickpea adoption in Andhra Pradesh, India. *International Journal of Remote Sensing*, 37(8), pp. 1955-1972. [Impact factor \[1.640\]](#)  
Publication Date: [2016-04-11](#)

[Evaluation of the onset and length of growing season to define planting date—‘a case study for Mali \(West Africa\)’](#)

Folorunso Akinseye, S.O Agele, Pierre C. Sibiry Traore, Myriam Adam, Anthony Whitbread. (31/5/2016). Evaluation of the onset and length of growing season to define planting date—‘a case study for Mali (West Africa)’. *Theoretical and Applied Climatology*, 124(3), pp. 973-983. [Impact factor \[2.433\]](#)  
Publication Date: [2016-05-31](#)

[Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement](#)

Dorcus Chepkensis Gemenet, Willmar Leiser, Francesca Beggi, Ludger Herrmann, Vincent Vadez, Fred Rattunde, Eva Weltzien, Charles Hash, Andreas Buerkert, Bettina Haussmann. (23/9/2016). Overcoming Phosphorus Deficiency in West African Pearl Millet and Sorghum Production Systems: Promising Options for Crop Improvement. *Frontiers in Plant Science*, 7. [Impact factor \[4.495\]](#)  
Publication Date: [2016-09-23](#)

### Multi-scale vulnerability assessment for adaptation planning

Tashina Esteves, & Darshini Ravindranath, & Satyasiba Beddamatta, & K. V. Raju, & Jagmohan Sharma, & G. Bala, & Indu K. Murthy. (10/4/2016). Multi-scale vulnerability assessment for adaptation planning. *Current Science*, 110, pp. 1225-1239. **Impact factor [0.967]**

Publication Date: 2016-04-10

### Resilience of the semi-arid tropical soils

Tapas Bhattacharyya, & Dilip Kumar Pal, & Suhas P. Wani, & Kanwar Lal Sahrawat. (10/5/2016). Resilience of the semi-arid tropical soils. *Current Science*, 110, pp. 1784-1788. **Impact factor [0.967]**

Publication Date: 2016-05-10

### Soil information system: web-based solution for agricultural land-use planning

Tapas Bhattacharyya, & Suhas P. Wani, & P. Chandran, & P. Tiwary, & Dilip Kumar Pal, & Kanwar Lal Sahrawat, & M. Velayutham. (25/1/2016). Soil information system: web-based solution for agricultural land-use planning. *Current Science*, 110, pp. 241-245. **Impact factor [0.967]**

Publication Date: 2016-01-25

### ICRISAT, India soils: yesterday, today and tomorrow

Tapas Bhattacharyya, & Suhas P. Wani, & Dilip Kumar Pal, & Kanwar Lal Sahrawat, & S. Pillai, & A. M. Nimje, & B. A. Telpande, & P. Chandran, & Swati Chaudhury. (10/5/2016). ICRISAT, India soils: yesterday, today and tomorrow. *Current Science*, 110, pp. 1652-1970. **Impact factor [0.967]**

Publication Date: 2016-05-10

### Soil and water management

Tapas Bhattacharyya, & Suhas P. Wani, & Kanwar Lal Sahrawat, & Dilip Kumar Pal. (10/5/2016). Soil and water management. *Current Science*, 110, pp. 1651-1651. **Impact factor [0.967]**

Publication Date: 2016-05-10

### Soil mapping and variety-based entry-point interventions for strengthening agriculture-based livelihoods – exemplar case of ‘Bhoochetana’ in India

Girish Chander, & Suhas P. Wani, & Krishnappa Kamma, & Kanwar Lal Sahrawat, & Gazula Parthasaradhi, & LS Jangawad. (10/5/2016). Soil mapping and variety-based entry-point interventions for strengthening agriculture-based livelihoods – exemplar case of ‘Bhoochetana’ in India. *Current Science*, 110, pp. 1683-1691. **Impact factor [0.967]**

Publication Date: 2016-05-10

### Potential of grassland rehabilitation through high density-short duration grazing to sequester atmospheric carbon

Vincent Chaplot, & Pshesheya Dlamini, & Pauline Chivenge. (19/2/2016). Potential of grassland rehabilitation through high density-short duration grazing to sequester atmospheric carbon. *Geoderma*, 271, pp. 10-17. **Impact factor [2.855]**

Publication Date: 2016-02-19

### Land use and cropping effects on carbon in black soils of semi-arid tropical India

Swati Chaudhury, & Tapas Bhattacharyya, & Suhas P. Wani, & Dilip Kumar Pal, & Kanwar Lal Sahrawat, & A. M. Nimje, & P. Chandran, & M V Venugopalan, & B. A. Telpande. (10/5/2016). Land use and cropping effects on carbon in black soils of semi-arid tropical India. *Current Science*, 110, pp. 1692-1698. **Impact factor [0.967]**

Publication Date: 2016-05-10



[Comparative evaluation of protein content in groundnut samples by near infrared reflectance spectroscopy and Skalar colorimetric methods](#)

Swati Chaudhury, & Kanwar Lal Sahrawat, & K. Srinivasu, & Suhas P. Wani, & Naveen Puppala. (25/6/2016). Comparative evaluation of protein content in groundnut samples by near infrared reflectance spectroscopy and Skalar colorimetric methods. *Current Science*, 110, pp. 2219-2220. **Impact factor [0.967]**

Publication Date: **2016-06-25**

[Evaluation of Introduced Pigeonpea \(Cajanuscajan \(L.\) Millsp.\) Genotypes for Growth and Yield Performance in Sudano-Sahelian Ecology of Nigeria](#)

I. E. Ezeaku, & Hakeem A. Ajeigbe, & Emeka Chibuzor Okechukmu. (18/4/2016). Evaluation of Introduced Pigeonpea (Cajanuscajan (L.) Millsp.) Genotypes for Growth and Yield Performance in Sudano-Sahelian Ecology of Nigeria. *Journal of Animal & Plant Sciences*, 26, pp. 163-169. **Impact factor [0.422]**

Publication Date: **2016-04-18**

[Fertilizer micro-dosing increases crop yield in the Sahelian low-input cropping system: A success with a shadow](#)

Ali Ibrahim, & Robert Abaidoo, & Dougbedji Fatondji, & Andrew Opoku. (22/5/2016). Fertilizer micro-dosing increases crop yield in the Sahelian low-input cropping system: A success with a shadow. *Soil Science and Plant Nutrition*, 62, pp. 277-288. **Impact factor [0.954]**

Publication Date: **2016-05-22**

[Are millet and sorghum good alternatives to maize in layer's feeds in Niger, West Africa?](#)

Salissou Issa, Sapna Jarial, Nouri Brah, Labo Harouna. (30/11/2016). Are millet and sorghum good alternatives to maize in layer's feeds in Niger, West Africa? *Indian Journal of Animal Sciences*, 86(11), pp. 1302-1305. **Impact factor [0.174]**

Publication Date: **2016-11-30**

[Rhizobacterial-plant interactions: Strategies ensuring plant growth promotion under drought and salinity stress](#)

Manoj Kaushal, Suhas P. Wani. (19/6/2016). Rhizobacterial-plant interactions: Strategies ensuring plant growth promotion under drought and salinity stress. *Agriculture, Ecosystems and Environment*, 231, pp. 68-78. **Impact factor [3.564]**

Publication Date: **2016-06-19**

[Farm level rainwater harvesting across different agro climatic regionsof India: Assessing performance and its determinants](#)

Kumar Shalander, & Thiagarajah Ramilan, & C.A. Rama Rao, & Ch. Srinivasa rao, & Anthony Whitbread. (11/5/2016). Farm level rainwater harvesting across different agro climatic regionsof India: Assessing performance and its determinants. *Agricultural Water Management*, 176, pp. 55-66. **Impact factor [2.603]**

Publication Date: **2016-05-11**

[Tillage impact on soil erosion by water: Discrepancies due to climate and soil characteristics](#)

N. Mhazo, & Pauline Chivenge, & Vincent Chaplot. (21/6/2016). Tillage impact on soil erosion by water: Discrepancies due to climate and soil characteristics. *Agriculture, Ecosystems and Environment*, 230, pp. 231-241. **Impact factor [3.564]**

Publication Date: **2016-06-21**

[Natural chemical degradation of soils in the Indian semi-arid tropics and remedial measures](#)

Dilip Kumar Pal, & Ranjan Bhattacharyya, & Kanwar Lal Sahrawat, & Suhas P. Wani. (10/5/2016). Natural chemical degradation of soils in the Indian semi-arid tropics and remedial measures. *Current Science*, 110, pp. 1675-1682. **Impact factor [0.967]**

Publication Date: **2016-05-10**

#### [Integrated runoff and soil loss monitoring unit for small agricultural watersheds](#)

Prabhakar Pathak, & K. Chandrasekhar,, & Suhas P. Wani, & Sudi Raghavendra Rao, & Budama Nagaraju. (28/8/2016). Integrated runoff and soil loss monitoring unit for small agricultural watersheds. *Computers and Electronics in Agriculture*, 128, pp. 50-57. **Impact factor [1.892]**  
Publication Date: **2016-08-28**

#### [Conservation agriculture for improving water productivity in Vertisols of semi-arid tropics](#)

Mukund Patil, & Suhas P. Wani, & Kaushal K. Garg. (10/5/2016). Conservation agriculture for improving water productivity in Vertisols of semi-arid tropics. *Current Science*, 110, pp. 1730-1739. **Impact factor [0.967]**  
Publication Date: **2016-05-10**

#### [Soil Texture and Cultivar Effects on Rice \(Oryza sativa, L.\) Grain Yield, Yield Components and Water Productivity in Three Water Regimes](#)

Fugen Dou, Junel Soriano, Rodante Tabien, Kun Chen. (15/3/2016). Soil Texture and Cultivar Effects on Rice (Oryza sativa, L.) Grain Yield, Yield Components and Water Productivity in Three Water Regimes. *PLOS ONE*, 11(3), pp. 1-12. **Impact factor [3.057]**  
Publication Date: **2016-03-15**

#### [Exploring the challenges with soil data in regional land use analysis](#)

Chantal Hendriks, Jetse Stoorvogel, Lieven Claessens. (26/1/2016). Exploring the challenges with soil data in regional land use analysis. *Agricultural Systems*, 144, pp. 9-21. **Impact factor [2.867]**  
Publication Date: **2016-01-26**

#### [Selective organic carbon losses from soils by sheet erosion and main controls](#)

Daniel Müller-Nedebock, Pauline Chivenge, Vincent Chaplot. (26/1/2016). Selective organic carbon losses from soils by sheet erosion and main controls. *Earth Surface Processes and Landforms*, 41(10), pp. 1399-1408. **Impact factor [3.505]**  
Publication Date: **2016-01-26**

#### [Livelihood system assessment and planning for poverty alleviation: a case of rainfed agriculture in Jharkhand](#)

Kiran Petare, Jitendra Nayak, Vartika Jaini, Suhas P. Wani. (10/5/2016). Livelihood system assessment and planning for poverty alleviation: a case of rainfed agriculture in Jharkhand. *Current Science*, 110(9), pp. 1773-1783. **Impact factor [0.967]**  
Publication Date: **2016-05-10**

#### [Engaging farmers on climate risk through targeted integration of bio-economic modelling and seasonal climate forecasts](#)

Uday Bhaskar Nidumolu, Ingrid Lubbers, Argyris Kanellopoulos, Martin van Ittersum, K. Dakshina Murthy, G. Sreenivas. (29/9/2016). Engaging farmers on climate risk through targeted integration of bio-economic modelling and seasonal climate forecasts. *Agricultural Systems*, 149, pp. 175-184. **Impact factor [2.867]**  
Publication Date: **2016-09-29**

#### [Role of crop competition in managing weeds in rice, wheat, and maize in India: A review](#)

Kulasekaran Ramesh, A. Narayana Rao, Bhagirath Chauhan. (16/7/2016). Role of crop competition in managing weeds in rice, wheat, and maize in India: A review. *Crop Protection*, 0, pp. 1-8. **Impact factor [1.652]**  
Publication Date: **2016-07-16**

[Variable indicators for optimum wavelength selection in diffuse reflectance spectroscopy of soils](#)  
MC Sarathjith, Bhabani Sankar Das, Suhas P. Wani, Kanwar Lal Sahrawat. (5/5/2016). Variable indicators for optimum wavelength selection in diffuse reflectance spectroscopy of soils. *Geoderma*, 267, pp. 1-9. **Impact factor [2.855]**  
Publication Date: **2016-05-05**

[Comparison of data mining approaches for estimating soil nutrient contents using diffuse reflectance spectroscopy](#)  
MC Sarathjith, Bhabani Sankar Das, Suhas P. Wani, Kanwar Lal Sahrawat, Arobinda Gupta. (25/3/2016). Comparison of data mining approaches for estimating soil nutrient contents using diffuse reflectance spectroscopy. *Current Science*, 110(6), pp. 1031-1037. **Impact factor [0.967]**  
Publication Date: **2016-03-25**

[Nitrogen response of sweet sorghum genotypes during rainy season](#)  
Gajanan Sawargaonkar, Suhas P. Wani. (10/5/2016). Nitrogen response of sweet sorghum genotypes during rainy season. *Current Science*, 110(9), pp. 1699-1703. **Impact factor [0.967]**  
Publication Date: **2016-05-10**

[Assessing village-level carbon balance due to greenhouse gas mitigation interventions using EX-ACT model](#)  
Ch. Srinivasa rao, Y. Sudha Rani, V. Girija Veni, K. L. Sharma, G. R. Maruthi Sankar, J.V.N.S. Prasad, Y.G. Prasad, Kanwar Lal Sahrawat. (10/1/2016). Assessing village-level carbon balance due to greenhouse gas mitigation interventions using EX-ACT model. *International Journal of Environmental Science and Technology*, 13(1), pp. 97-112. **Impact factor [2.344]**  
Publication Date: **2016-01-10**

[Discrimination of maize crop with hybrid polarimetric RISAT1 data](#)  
Deepika Uppala, Kothapalli Venkataa Ramana, Srikanth Poloju, SessaSai Mullapudi Venkata Rama, Vinay Kumar Dadhwal. (25/5/2016). Discrimination of maize crop with hybrid polarimetric RISAT1 data. *International Journal of Remote Sensing*, 37(11), pp. 2641-2652. **Impact factor [1.640]**  
Publication Date: **2016-05-25**

[Considering effects of temperature and photoperiod on growth and development of lablab purpureus \(L.\) Sweet in the search of short-season accessions for smallholder farming systems](#)  
Anne Sennhenn, J. J. O. Odhiambo, B. L. MAASS, Anthony Whitbread. (26/5/2016). Considering effects of temperature and photoperiod on growth and development of lablab purpureus (L.) Sweet in the search of short-season accessions for smallholder farming systems. *Experimental Agriculture*, 0, pp. 1-12. **Impact factor [0.973]**  
Publication Date: **2016-05-26**

[Sustainable use of natural resources for crop intensification and betterlivelihoods in the rainfed semi-arid tropics of Central India](#)  
Suhas P. Wani, Girish Chander, Kanwar Lal Sahrawat, Dilip Kumar Pal, Prabhakar Pathak, G. Pardhasaradhi, P.J. Kamadi. (19/1/2016). Sustainable use of natural resources for crop intensification and betterlivelihoods in the rainfed semi-arid tropics of Central India. *NJAS-Wageningen Journal of Life Sciences*. **Impact factor [0.635]**  
Publication Date: **2016-01-19**

#### Climate, soil and land-use based land suitability evaluation for oilpalm production in Ghana

Tiemen Rhebergen, & Thomas Fairhurst, & Shamie Zingore, & Myles Fisher, & Thomas Oberthür, & Anthony Whitbread. (15/8/2016). Climate, soil and land-use based land suitability evaluation for oilpalm production in Ghana. *European Journal of Agronomy*, 81, pp. 1-14. **Impact factor [3.186]**

Publication Date: 2016-08-15

#### No-tillage lessens soil CO2 emissions the most under arid and sandy soil conditions: results from a meta-analysis

Khatab Abdalla, & Pauline Chivenge, & Philippe Ciais, & Vincent Chaplot. (21/6/2016). No-tillage lessens soil CO2 emissions the most under arid and sandy soil conditions: results from a meta-analysis. *Biogeosciences*, 13, pp. 3619-3633. **Impact factor [3.70]**

Publication Date: 2016-06-21

### Non-ISI Journal Articles (13)

#### Innovation Platform: Method to Engage Crop-Livestock Stakeholders in West Africa

Sapna Jarial, Hakeem A. Ajeigbe, Shehu Yahaya, Salissou Issa, Nouri Maman Kassoum. (5/1/2016). Innovation Platform: Method to Engage Crop-Livestock Stakeholders in West Africa. *International Journal of Agricultural Extension*, 03(3), pp. 201-207.

Publication Date: 2016-01-05

#### Assessing the Potential for Zone-Specific Management of Cereals in Low-Rainfall South-Eastern Australia: Combining On-Farm Results and Simulation Analysis

Munir Hoffmann, Rick Llewellyn, W. Davoren, Anthony Whitbread. (28/4/2016). Assessing the Potential for Zone-Specific Management of Cereals in Low-Rainfall South-Eastern Australia: Combining On-Farm Results and Simulation Analysis. *Journal of Agronomy and Crop Science*, 0, pp. 1-5.

Publication Date: 2016-04-28

#### Shallow wells, the untapped resource with a potential to improve agriculture and food security in southern Mali

Zemadim Birhanu, Ramadjita TABO. (3/5/2016). Shallow wells, the untapped resource with a potential to improve agriculture and food security in southern Mali. *Agriculture & Food Security*, 5(5), pp. 1-13.

Publication Date: 2016-05-03

Project: Africa RISING

#### Benchmarking Farmers' Economic and Social Status in Anantapuramu and Kurnool Arid Districts of Andhra Pradesh for Probable Introduction of Potato Crop

Rajesh K. Rana, Sushma Arya, Sanjay Kumar, BP Singh, Gurram Adinarayana, Kumar Shalander, Roberto Quiroz, Mohinder Kadian. (1/2/2016). Benchmarking Farmers' Economic and Social Status in Anantapuramu and Kurnool Arid Districts of Andhra Pradesh for Probable Introduction of Potato Crop. *Economic Affairs*, 60(4), pp. 699-706.

Publication Date: 2016-02-01

#### Do participatory scenario exercises promote systems thinking and build consensus? Do participatory scenarios promote systems thinking and build consensus?

Laura Schmitt Olabisi, Jelili Adebisi, Pierre C. Sibiry Traore, Mayamiko Nathaniel Kakwera. (21/7/2016). Do participatory scenario exercises promote systems thinking and build consensus? Do participatory scenarios promote systems thinking and build consensus?. *Elementa: Science of the Anthropocene*, 4, pp. 1-11.

Publication Date: 2016-07-21

Project: Africa RISING

#### Priority regions for research on dryland cereals and legumes.

Glenn Graham Hyman, Elizabeth Barona, Chandrashekhara Biradar, Edward Guevara, John Dixon, Steve Beebe, Silvia Elena Castaño, Tunrayo Alabi, Murali Krishna Gumma, Shoba Sivasankar, Ovidio Rivera, Herlin Espinosa, Jorge Cardona. (13/5/2016). Priority regions for research on dryland cereals and legumes. F1000Research, n/a, pp. 1-20.

Publication Date: 2016-05-13

#### Effect of nitrogen fertilizer on yield and nitrogen use efficiency of four aromatic rice varieties

Koffi Djaman, Vincent Bado, Valere Cesse Mel. (5/1/2016). Effect of nitrogen fertilizer on yield and nitrogen use efficiency of four aromatic rice varieties. Emirates Journal of Food and Agriculture, 28(2), pp. 126-135.

Publication Date: 2016-01-05

#### Congruence of appropriation and provision in collective water provision in Central Namibia

Thomas Falk, Dirk Lohmann, Nadege Azebaze. (31/12/2016). Congruence of appropriation and provision in collective water provision in Central Namibia. International Journal of the Commons, 10(1), pp. 71-118.

Publication Date: 2016-12-31

#### Pathways to Sustainable Intensification: Participatory Designing of Adapted Farming System Innovations

Kumar Shalander, Anthony Whitbread, Thomas Falk. (23/8/2016). Pathways to Sustainable Intensification: Participatory Designing of Adapted Farming System Innovations. Solutions, 7(5), pp. 32-35.

Publication Date: 2016-08-23

#### Are there “women’s crops”? A new tool for gender and agriculture

Alastair Orr, Sabine Homann-Kee Tui, Tsusaka Takuji, Harry MSere, Thabani Dube, Trinity Senda. (18/5/2016). Are there “women’s crops”? A new tool for gender and agriculture. Development in Practice, 26(8), pp. 984-997.

Publication Date: 2016-05-18

#### Promoting Policy Formulation at the State Level in India

KV Raju, A. Ravindra. (30/6/2016). Promoting Policy Formulation at the State Level in India. FPI's Journal of Economics & Governance, 1(1), pp. 11-18.

Publication Date: 2016-06-30

#### Bi-decadal groundwater level trends in a semi-arid southindian region: Declines, causes and management

Rajendra Sishodia, Sanjay Shukla, Wendy Graham, Suhas P. Wani, Kaushal K. Garg. (8/9/2016). Bi-decadal groundwater level trends in a semi-arid southindian region: Declines, causes and management. Journal of Hydrology: Regional Studies, 8, pp. 48-58.

Publication Date: 2016-09-08

#### Role of Micro and Secondary Nutrients in Achieving Food and Nutritional Security

Suhas P. Wani, Girish Chander. (15/7/2016). Role of Micro and Secondary Nutrients in Achieving Food and Nutritional Security. Advances in Plants & Agriculture Research, 4(2), pp. 1-2.

Publication Date: 2016-07-15

## Book Chapters (5)

### Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building—Exploring Potential Adaptation Strategies for Bio-resource Conservation and Livelihood Development: Epilogue

Sunil Nautiyal, Ruediger Schaldah, K. V. Raju, Harald Kächele, Bill Pritchard, K.S. Rao. (15/6/2016). Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building—Exploring Potential Adaptation Strategies for Bio-resource Conservation and Livelihood Development: Epilogue, in "Climate Change Challenge (3C) and SocialEconomicEcological InterfaceBuilding: Exploring Potential Adaptation Strategies for Bioresource Conservation and Livelihood Development". Zurich, Switzerland: Springer.

Publication Date: 2016-06-15

### Impact of Climate Change on Agriculture and Food Security

Kesava Rao, Suhas P. Wani. (3/6/2016). Impact of Climate Change on Agriculture and Food Security, in "Capacity Building for Climate Smart Agriculture". Hyderabad, India: BS Publications.

Publication Date: 2016-06-03

### Climate Change Adaption and Mitigation - Role of Extension

Kesava Rao, Suhas P. Wani, Mukund Patil. (3/6/2016). Climate Change Adaption and Mitigation - Role of Extension, in "Advances in Agricultural Extension: Towards Changing the Lives and Livelihoods.". Hyderabad, India: BS Publications.

Publication Date: 2016-06-03

### Socio-economic and Agricultural Vulnerability Across Districts of Karnataka

KV Raju, R.S. Deshpande, Satyasiba Beddamatta. (15/6/2016). Socio-economic and Agricultural Vulnerability Across Districts of Karnataka, in "Climate Change Challenge (3C) and SocialEconomicEcological Interface Building: Exploring Potential Adaptation Strategies for Bioresource Conservation and Livelihood Development". Zurich, Switzerland: Springer.

Publication Date: 2016-06-15

### Dealing with critical challenges in African innovation platforms: Lessons for facilitation

Kees Swaans, Beth Cullen, Andre F. van Rooyen, Adewale Adekunle, Hlami Ngwenya, Zelalem Lema Moti, Suzanne Nederlof. (11/11/2016). Dealing with critical challenges in African innovation platforms: Lessons for facilitation, in "Innovation for Inclusive ValueChain Development: Successes and Challenges". Washington, United States: International Food Policy Research Institute.

Publication Date: 2016-11-11

## Proceedings (7)

### What do we mean by 'women's crops'? Commercialisation, gender, and the power to name

Alastair Orr, & Sabine Homann-Kee Tui, & Tsusaka Takuji, & Harry Msere. (27/1/2016). What do we mean by 'women's crops'? Commercialisation, gender, and the power to name. Milan, Italy: Will Martin (Curator), & Donald Maclaren.

Publication Date: 2016-01-27

### Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows

Chandrashekhar Biradar, Geli Zhang, Xiangming Xiao, Jinwei Dong, R. Singh, Ashutosh Sarker, Murari Singh, Loyal Atassi, Khaled El-Shamaa, Kanwar Lal Sahrawat, Andrew Noble. (20/7/2016). Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows..

Publication Date: 2016-07-20

[Reconciling Global and Local Benefits from Communally Managed Forests: Evidence from a Choice Experiment on PES in Zambia](#)

Tobias Vorlaufer, Thomas Falk, Thomas Dufhues, Michael Kirk. (12/5/2016). Reconciling Global and Local Benefits from Communally Managed Forests: Evidence from a Choice Experiment on PES in Zambia. Hyderabad, India.

Publication Date: [2016-05-12](#)

[The adoption of a portfolio of sustainable agricultural practices by smallholder farmers in Zimbabwe](#)

Conrad Murendo, Simon Gwara, Nkululeko Mpofo, Tarisayi Pedzisa, Kizito Mazvimavi, Pauline Chivenge. (23/9/2016). The adoption of a portfolio of sustainable agricultural practices by smallholder farmers in Zimbabwe. Hyderabad, India.

Publication Date: [2016-09-23](#)

[Towards resilient and profitable farming systems in Central Mozambique using an open innovation platform approach](#)

Sabine Homann-Kee Tui, Michael Hauser, Carlos Quembo, Claudio Gule, Fernando Assane, Feliciano Mazuze, Julio Onofre Rainde, Claudio Sixpence. (21/9/2016). Towards resilient and profitable farming systems in Central Mozambique using an open innovation platform approach. Hyderabad, India.

Publication Date: [2016-09-21](#)

Project: [Nudging Sustainability Transitions Using Innovation Platforms and Market-Oriented Development in Mozambique](#)

[Integrated ecosystems approach for sustainable intensification of community based silvopastoral systems in arid western Rajasthan, India: implications for upscaling](#)

Kumar Shalander, Anthony Whitbread, Tejendra K Bhati. (14/10/2016). Integrated ecosystems approach for sustainable intensification of community based silvopastoral systems in arid western Rajasthan, India: implications for upscaling.

Publication Date: [2016-10-14](#)

[Institutionalizing governance arrangements for sustainable management of community based silvipasture systems in arid ecoregions in Rajasthan, India](#)

Kumar Shalander, Anthony Whitbread, Thomas Falk. (14/10/2016). Institutionalizing governance arrangements for sustainable management of community based silvipasture systems in arid ecoregions in Rajasthan, India.

Publication Date: [2016-10-14](#)

## **Reports/Working Papers (7)**

[Year 2015 Implementation report on “Small farm mechanization”](#)

Girish Chander, Anthony Whitbread, Y. Padmalatha, B Sahadeva Reddy. (7/1/2016). Year 2015 Implementation report on “Small farm mechanization”.

Publication Date: [2016-01-07](#)

[Restoration of Degraded Lands in West Africa Sahel: Review of experiences in Burkina Faso and Niger](#)

Bado, V., P.Savadogo (2016). Restoration of Degraded Lands in West Africa Sahel: Review of experiences in Burkina Faso and Niger. Publisher.

Publication Date: [2016-02-01](#)

Project: [Restoration of degraded land for food security and poverty reduction in East Africa and the Sahel: taking successes in land restoration to scale](#)

### [Gendered Analysis of Stakeholder Perceptions of Climate Change, and the Barriers to its Adaptation in Mopti Region in Mali](#)

Gracious Diiro, Monica Petri, Zemadim Birhanu, Boubacar Sinare, Mahamadou Dicko, Djelika Traore, Ramadjita TABO. (12/5/2016). Gendered Analysis of Stakeholder Perceptions of Climate Change, and the Barriers to its Adaptation in Mopti Region in Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: [2016-05-12](#)

### [Rythu Kosam \(Andhra Pradesh Primary Sector Mission\). Baseline Summary Report.](#)

Deevi KumaraCharyulu, Davala Mosesshyam, Suhas P. Wani, KV Raju. (3/11/2016). Rythu Kosam (Andhra Pradesh Primary Sector Mission). Baseline Summary Report.. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: [2016-11-03](#)

### [Transforming Weather Index-Based Crop Insurance in India: Protecting Small Farmers from Distress Status and a Way Forward](#)

KV Raju, Gopal Naik, R. Ramaseshan, Tushar Pandey, Partha Joshi, K.H. Anantha, Kesava Rao, Davala Mosesshyam, Deevi KumaraCharyulu. (3/11/2016). Transforming Weather Index-Based Crop Insurance in India: Protecting Small Farmers from Distress Status and a Way Forward. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: [2016-11-03](#)

### [Mainstreaming Gender and Empowering Women in Agriculture in the Thar Region of India](#)

Neetu Sharma, Kumar Shalander, Ravula Padmaja, Prakash Tyagi. (31/12/2016). Mainstreaming Gender and Empowering Women in Agriculture in the Thar Region of India. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: [2016-12-31](#)

### [Pradhan Mantri Krishi Sinchai Yojana: Enhancing Impact through Demand Driven Innovations](#)

Suhas P. Wani, K.H. Anantha, Kaushal K. Garg, Partha Joshi, Girish G. Sohani, Pk Mishra, Kuppannan Palanisami. (3/11/2016). Pradhan Mantri Krishi Sinchai Yojana: Enhancing Impact through Demand Driven Innovations. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: [2016-11-03](#)

## **Other (13)**

### [Gender preferred crops with laboratory evidence on fodder quality traits](#)

Jarial, S., M.Lamine, A.Saïdou, K.Prasad, M.Blummel (2016, January 26). Gender preferred crops with laboratory evidence on fodder quality traits [Internal Document].

Type: [Internal Document](#) | Publication Date: [2016-01-26](#)

### [Gender roles and constraints in cowpea and groundnut cropping: a case from Niger](#)

Sapna Jarial, Maman Epiphane Lamine. (22/2/2016). Gender roles and constraints in cowpea and groundnut cropping: a case from Niger. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: [Poster](#) | Publication Date: [2016-02-22](#)



### Price-quality relationships in fodder trading in Niger with special regards to comparison of cowpea and groundnut haulms with concentrates, collected shrubs and grasses

Sapna Jarial, D. Blummel, D. Soumana, D. Prasad, D. Issa, D. Ravi. (25/2/2016). Price-quality relationships in fodder trading in Niger with special regards to comparison of cowpea and groundnut haulms with concentrates, collected shrubs and grasses. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-02-25**

### Stakeholders mapping, analysis and engagement in Southern Mali

Joachim Binam, Bougouna Sogoba, Zemadim Birhanu, Catherine Dembele, Arouna Bayoko, Adama Diakite. (30/3/2016). Stakeholders mapping, analysis and engagement in Southern Mali. Nairobi, Kenya: World Agroforestry Center.

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Sustainable Intensification (SI) of Key Farming Systems in the Sudano-Sahelian Zone of West Africa (Africa RISING)**

### Sustainability transitions for smallholder farmers: How can government, research and development programs support profitable goat markets in Tete?

Sabine Homann-Kee Tui, Claudio Sixpence, Claudio Gule, Ana Lidia Gungulo, Trinity Senda, Michael Hauser, Emmanuel Mwakiwa, Carlos Quembo, Andre F. van Rooyen. (14/10/2016). Sustainability transitions for smallholder farmers: How can government, research and development programs support profitable goat markets in Tete? Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Brief** | Publication Date: **2016-10-14**

Project: **Nudging Sustainability Transitions Using Innovation Platforms and Market-Oriented Development in Mozambique**

### Addressing dry season feeding challenges in Mali by Mobile Choppers

Sapna Jarial, Hamidou Nantoumé, Zemadim Birhanu, Bougouna Sogoba, Augustine Ayantunde, Anthony Whitbread, Ramadjita TABO, Gundula Fischer, Irmgard Hoeschle-Zeledon. (6/5/2016). Addressing dry season feeding challenges in Mali by Mobile Choppers. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-05-06**

Project: **Africa RISING**

### Gender roles and preferences in animal feeding technologies: a case from Mali

Sapna Jarial, Gundula Fischer, Irmgard Hoeschle-Zeledon, Hamidou Nantoumé, Zemadim Birhanu, Bougouna Sogoba, Ramadjita TABO. (30/3/2016). Gender roles and preferences in animal feeding technologies: a case from Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

### Cost-Benefit analysis of crop trials under the Africa RISING project in Mali

Badolo Felix, Bekele Kotu, Birhanu Tadesse. (30/3/2016). Cost-Benefit analysis of crop trials under the Africa RISING project in Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

#### Watershed management, efforts beyond farm level in southern Mali

Birhanu Taddesse, Murali Krishna Gumma, Cedrick Guedessou, Kalifa B. Traore, Bougouna Sogoba, Ramadjita TABO. (30/3/2016). Watershed management, efforts beyond farm level in southern Mali. Hyderabad, India: The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

#### Integrated watershed management to create multifunctional landscapes: implementation and monitoring

Lulseged Tamene, Kifle Woldearegay, James Ellison, Kindu Mekonnen, Girma Tesfahun Kassie, Tilahun Amede, Quang Bao Le. (28/12/2016). Integrated watershed management to create multifunctional landscapes: implementation and monitoring. Cali, Colombia: International Center for Tropical Agriculture (CIAT).

Type: **Presentation** | Publication Date: **2016-12-28**

#### Comparison of cowpea and groundnut haulm trading in urban and rural fodder markets in Niger

Sapna Jarial, Michael Blummel, Idrissa Soumana, D. Ravi, Salissou Issa, Anthony Whitbread, Ramadjita TABO. (27/2/2016). Comparison of cowpea and groundnut haulm trading in urban and rural fodder markets in Niger. Hyderabad, India: International Crops Research Institute for the SemiArid Tropics.

Type: **Presentation** | Publication Date: **2016-02-27**

#### Evaluate strategies for improving household nutritional diversity in Mali

Caroline Makamto Sobgui, & H. Diarra, & P. Coulibaly, & Jean-Baptiste Tignegre, & Abdou Tenkouano. (30/3/2016). Evaluate strategies for improving household nutritional diversity in Mali. Tainan City, Taiwan: World Vegetable Center.

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

#### Nutrition guidelines for community extension workers

Caroline Makamto Sobgui, & Abdou Tenkouano. (15/11/2016). Nutrition guidelines for community extension workers. Tainan City, Taiwan: The World Vegetable Center.

Type: **Poster** | Publication Date: **2016-11-15**

Project: **Africa RISING**

## IITA – International Institute of Tropical Agriculture (7)

### Non-ISI Journal Articles (1)

#### Priority regions for research on dryland cereals and legumes.

Glenn Graham Hyman, Elizabeth Barona, Chandrashekhhar Biradar, Edward Guevara, John Dixon, Steve Beebe, Silvia Elena Castaño, Tunrayo Alabi, Murali Krishna Gumma, Shoba Sivasankar, Ovidio Rivera, Herlin Espinosa, Jorge Cardona. (13/5/2016). Priority regions for research on dryland cereals and legumes. . F1000Research, n/a, pp. 1-20.

Publication Date: 2016-05-13

### Other (6)

#### Development of a sustainable intensification indicators framework: reports from the frontline in Malawi

Sieglinde Snapp, & Philip Grabowski, & mark musumba, & Cheryl Palm, & Regis Chiwoko, & Bekunda Mateete. (19/6/2016). Development of a sustainable intensification indicators framework: reports from the frontline in Malawi. Lansing, United States: Michigan State University.

Type: Poster | Publication Date: 2016-06-19

Project: Africa RISING

#### How does a farm family in Malawi produce more from their farm?

jonathan odhong, & Regis Chiwoko, & Irmgard Hoeschle-Zeledon, & Sieglinde Snapp. (21/3/2016). How does a farm family in Malawi produce more from their farm?. Ibadan, Nigeria: IITA.

Type: Poster | Publication Date: 2016-03-21

Project: Africa RISING

#### Different strokes for different folks: 3year doubledup legume cropping cycles for contrasting farms in Malawi

jonathan odhong, & Regis Chiwoko, & Irmgard Hoeschle-Zeledon, & Sieglinde Snapp. (21/3/2016). Different strokes for different folks: 3year doubledup legume cropping cycles for contrasting farms in Malawi. Ibadan, Nigeria: International Institute of Tropical Agriculture.

Type: Poster | Publication Date: 2016-03-21

Project: Africa RISING

#### Addressing dry season feeding challenges in Mali by Mobile Choppers

Sapna Jarial, Hamidou Nantoumé, Zemadim Birhanu, Bougouna Sogoba, Augustine Ayantunde, Anthony Whitbread, Ramadjita TABO, Gundula Fischer, Irmgard Hoeschle-Zeledon. (6/5/2016). Addressing dry season feeding challenges in Mali by Mobile Choppers. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: Poster | Publication Date: 2016-05-06

Project: Africa RISING

#### Gender roles and preferences in animal feeding technologies: a case from Mali

Sapna Jarial, Gundula Fischer, Irmgard Hoeschle-Zeledon, Hamidou Nantoumé, Zemadim Birhanu, Bougouna Sogoba, Ramadjita TABO. (30/3/2016). Gender roles and preferences in animal feeding technologies: a case from Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: Poster | Publication Date: 2016-03-30

Project: Africa RISING

[Cost-Benefit analysis of crop trials under the Africa RISING project in Mali](#)

Badolo Felix, Bekele Kotu, Birhanu Tadesse. (30/3/2016). Cost-Benefit analysis of crop trials under the Africa RISING project in Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: [Poster](#) | Publication Date: [2016-03-30](#)

Project: [Africa RISING](#)

## ILRI – International Livestock Research Institute (48)

### ISI Journal Articles (11)

#### Experimental Evidence on the Drivers of Index-Based Livestock Insurance Demand in Southern Ethiopia

Kazushi Takahashi, Christopher Ikegami, Christopher Sheahan, Christopher Barrett. (1/1/2016). Experimental Evidence on the Drivers of Index-Based Livestock Insurance Demand in Southern Ethiopia. *World Development*, 78, pp. 324-340. **Impact factor [2.438]**

Publication Date: 2016-01-01

Project: **Index-Based Livestock Insurance**

#### A Spatial Econometric Approach to Designing and Rating Scalable Index Insurance in the Presence of Missing Data

index **Impact factor [0.373]**

Publication Date: 2016-01-20

Project: **Index-Based Livestock Insurance**

#### Waking the Sleeping Giant: Agricultural intensification, extensification or stagnation in Mali's Guinea Savannah

africa **Impact factor [2.867]**

Publication Date: 2016-07-14

Project: **Technical Consortium for Resilience in the HOA**

#### Extreme Wildlife Declines and Concurrent Increase in Livestock Numbers in Kenya: What Are the Causes?

Joseph O. Ogutu, & Hans-Peter Piepho, & Mohammed Said, & Gordon Otieno Ojwang, & Lucy Njino, & Shem Kifugo, & Patrick Wargute. (27/9/2016). Extreme Wildlife Declines and Concurrent Increase in Livestock Numbers in Kenya: What Are the Causes? *PLOS ONE*, 11, pp. 1-46. **Impact factor [3.057]**

Publication Date: 2016-09-27

#### Meat and milk production scenarios and the associated land footprint in Kenya

Caroline K. Bosire, & Maarten S. Krol, & Kindu Mekonnen, & Joseph O. Ogutu, & Jan de Leeuw, & Mats Lannerstad, & Arjen Y. Hoekstra. (6/3/2016). Meat and milk production scenarios and the associated land footprint in Kenya. *Agricultural Systems*, 145, pp. 64-75. **Impact factor [2.867]**

Publication Date: 2016-03-06

#### Promoting the use of home-mixed supplements as alternatives to commercial supplements in smallholder beef production systems in the subhumid region of Zimbabwe

Irenie Chakoma, & Godfrey Manyawu, & Lovemore Gwiriri, & Siboniso Moyo, & Sikhalazo Dube, & Venancio Imbayarwo-Chikosi, & Tinyiko Edward Halimani, & Charles Chakoma, & Barbara Maasdorp, & Victor Buwu. (10/10/2016). Promoting the use of home-mixed supplements as alternatives to commercial supplements in smallholder beef production systems in the subhumid region of Zimbabwe. *African Journal of Range & Forage Science*, 33, pp. 165-171. **Impact factor [1.250]**

Publication Date: 2016-10-10

Project: **ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe**

#### Forage seed production and trade as a pathway out of poverty in the smallholder sector: lessons from the Zimbabwe Crop Livestock Integration for Food Security (ZimCLIFS) project

Charles Chakoma, & Lovemore Gwiriri, & Godfrey Manyawu, & Sikhhalazo Dube, & Mercy Shumba, & Aleck Gora. (26/8/2016). Forage seed production and trade as a pathway out of poverty in the smallholder sector: lessons from the Zimbabwe Crop Livestock Integration for Food Security (ZimCLIFS) project. *African Journal of Range and Forage Science*, 33, pp. 181-184. **Impact factor [1.250]**

Publication Date: 2016-08-26

Project: **ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe**

#### Effects of extreme land fragmentation on wildlife and livestock population abundance and distribution

Mohammed Said, Joseph O. Ogutu, Shem Kifugo, Ogeli Makui, Robin Reid, Jan de Leeuw. (21/10/2016). Effects of extreme land fragmentation on wildlife and livestock population abundance and distribution. *Journal for Nature Conservation*, 34, pp. 151-164. **Impact factor [2.220]**

Publication Date: 2016-10-21

#### Gender Differentiated Preferences for a Community-Based Conservation Initiative

Aidan Keane, Heather Gurd, Dickson Kaelo, Mohammed Said, Jan de Leeuw, Marcus Rowcliffe, Katherine Homewood. (29/3/2016). Gender Differentiated Preferences for a Community-Based Conservation Initiative. *PLOS ONE*, 11(3), pp. 1-15. **Impact factor [3.057]**

Publication Date: 2016-03-29

#### The potential of replacing conventional dairy supplements with forage legume-based diets in Zimbabwe's smallholder dairy sector

Lovemore Gwiriri, Godfrey Manyawu, Promise Mashanda, Irenie Chakoma, Siboniso Moyo, Charles Chakoma, Hazel Sethaunyane, Venancio Imbayarwo-Chikosi, Sikhhalazo Dube, Barbara Maasdorp. (22/7/2016). The potential of replacing conventional dairy supplements with forage legume-based diets in Zimbabwe's smallholder dairy sector. *African Journal of Range & Forage Science*, 33(3), pp. 155-163. **Impact factor [1.250]**

Publication Date: 2016-07-22

Project: **ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe**

#### To mulch or to munch? Big modelling of big data

Daniel Rodriguez, Peter deVoil, Mariana C. Rufino, M. Odendo, Mark van Wijk van Wijk. (17/1/2016). To mulch or to munch? Big modelling of big data. *Agricultural Systems*, 153, pp. 32-42. **Impact factor [2.867]**

Publication Date: 2016-01-17

### Non-ISI Journal Articles (3)

#### Connaissance locale des pratiques de la transhumance dans la zone soudano-sahélienne du Mali

Clarisse Umutoni, Augustine Ayantunde, Germain Jérôme Sawadogo. (26/10/2016). Connaissance locale des pratiques de la transhumance dans la zone soudano-sahélienne du Mali. *Revue d'élevage et de médecine vétérinaire des pays tropicaux*, 69(2), pp. 53-61.

Publication Date: 2016-10-26

Project: **Africa RISING**

### Community Participation in Decentralized Management of Natural Resources in the Southern Region of Mali

Clarisse Umutohi, Augustine Ayantunde, Matthew D. Turner, Germain Jérôme Sawadogo. (31/3/2016). Community Participation in Decentralized Management of Natural Resources in the Southern Region of Mali. *Environment and Natural Resources Research*, 6(2), pp. 1-5.

Publication Date: 2016-03-31

Project: Africa RISING

### Improving livestock productivity: Assessment of feed resources and livestock management practices in Sudan-Savanna zones of West Africa

Tunde Amole, Augustine Ayantunde. (15/2/2016). Improving livestock productivity: Assessment of feed resources and livestock management practices in Sudan-Savanna zones of West Africa. *African Journal of Agricultural Research*, 11(5), pp. 422-440.

Publication Date: 2016-02-15

Project: Africa RISING

## Book Chapters (1)

### Dealing with critical challenges in African innovation platforms: Lessons for facilitation

Kees Swaans, Beth Cullen, Andre F. van Rooyen, Adewale Adekunle, Hlami Ngwenya, Zelalem Lema Moti, Suzanne Nederlof. (11/11/2016). Dealing with critical challenges in African innovation platforms: Lessons for facilitation, in "Innovation for Inclusive ValueChain Development: Successes and Challenges". Washington, United States: International Food Policy Research Institute.

Publication Date: 2016-11-11

## Proceedings (2)

### Cross-Level Governance of Common Property Rangelands: Three Cases from East Africa

Lance W. Robinson, & Enoch M. Ontiri, & Stephen S. Moiko, & Asana Tsegaye Alemu. (16/7/2016). Cross-Level Governance of Common Property Rangelands: Three Cases from East Africa. Saskatoon, Canada.

Publication Date: 2016-07-16

### Outlining a Global Research Agenda for Enabling Effective Rangeland Governance

Lance W. Robinson, & Fiona Flintan. (7/12/2016). Outlining a Global Research Agenda for Enabling Effective Rangeland Governance. Nairobi, Kenya.

Publication Date: 2016-12-07

## Reports/Working Papers (5)

### Gender in decision making, access to and control over labor and extension services: A Perception survey in Burkina-Faso

Ademonla A. Djalalou-Dine Arinloye, & Mawa Karambiri, & Joachim Binam, & Patrice Savadogo, & Antoine Kalinganire, & Jules Bayala. (25/1/2016). Gender in decision making, access to and control over labor and extension services: A Perception survey in Burkina-Faso. Amman, Jordan: CGIAR Research Program on Dryland Systems.

Publication Date: 2016-01-25

### Spatial planning: Making space for livestock and wildlife

Mohammed Said, Shem Kifugo, Leah Ng'ang'a, Florence Landsberg, Mercedes Stickler, Brenda Omuombo, Patrick Wargute, Lucy Njino. (6/11/2016). Spatial planning: Making space for livestock and wildlife. Nairobi, Kenya: International Livestock Research Institute.

Publication Date: 2016-11-06

### [The LUCID Model and Its Role in Supporting Land Use Planning Processes in Southern Ethiopia](#)

Gunnar Dressler, & Lance W. Robinson. (31/12/2016). The LUCID Model and Its Role in Supporting Land Use Planning Processes in Southern Ethiopia. Nairobi, Kenya: International Livestock Research Institute (ILRI), Helmholtz Centre for Environmental Research (UFZ).

Publication Date: [2016-12-31](#)

### [Pastoralists Do Plan! Community-Led Land Use Planning in the Pastoral Areas of Ethiopia](#)

Samuel Tefera, & Cherie Enawgaw Beyene, & Dessalegn Tekle, & Abdurehman Eid, & Olisarali Olibui, & Shauna LaTosky, & Mohammed Detona, & Akloweg Nigatu, & Fiona Flintan. (30/9/2016). Pastoralists Do Plan! Community-Led Land Use Planning in the Pastoral Areas of Ethiopia. Rome, Italy: International Land Coalition.

Publication Date: [2016-09-30](#)

### [Characterization for index based livestock insurance](#)

Christopher Mills, & Nathan Jensen, & Christopher Barrett, & Andrew Mude. (30/4/2016). Characterization for index based livestock insurance. Nairobi, Kenya: International Livestock Research Institute.

Publication Date: [2016-04-30](#)

Project: [Index-Based Livestock Insurance](#)

## **Other (26)**

### [Gender preferred crops with laboratory evidence on fodder quality traits](#)

Jarial, S., M.Lamine, A.Saïdou, K.Prasad, M.Blummel (2016, January 26). Gender preferred crops with laboratory evidence on fodder quality traits [Internal Document].

Type: [Internal Document](#) | Publication Date: [2016-01-26](#)

### [Price-quality relationships in fodder trading in Niger with special regards to comparison of cowpea and groundnut haulms with concentrates, collected shrubs and grasses](#)

Sapna Jarial, D. Blummel, D. Soumana, D. Prasad, D. Issa, D. Ravi. (25/2/2016). Price-quality relationships in fodder trading in Niger with special regards to comparison of cowpea and groundnut haulms with concentrates, collected shrubs and grasses. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: [Poster](#) | Publication Date: [2016-02-25](#)

### [Least-cost rations for sheep fattening: A manual for livestock farmers and extension workers in the West African Sahel](#)

Tunde Amole, Abdou Ayantunde, Abdou Dangoma. (1/2/2016). Least-cost rations for sheep fattening: A manual for livestock farmers and extension workers in the West African Sahel. Nairobi, Kenya: International Livestock Research Institute (ILRI).

Type: [Manual](#) | Publication Date: [2016-02-01](#)

### [Creation of communal grazing areas for goats in southern Mozambique: future perspectives](#)

Yvane Marblé, Birgit Boogaard, Mats Lannerstad. (13/11/2016). Creation of communal grazing areas for goats in southern Mozambique: future perspectives. Netherlands, Netherlands: Wageningen University.

Type: [Thesis](#) | Publication Date: [2016-11-13](#)

### [Goat production and commercialization](#)

Gisela Pereira, & Birgit Boogaard, & Michaela Cosijn, & Saskia Hendrickx, & Amosse Maheme, & Felisberto Maute. (30/6/2016). Goat production and commercialization. Nairobi, Kenya: International Livestock Research Institute.

Type: [Manual](#) | Publication Date: [2016-06-30](#)



#### [Durabilité du système pastoral sénégalais dans un contexte d'innovation \(LDB\)](#)

Mamadou Yauck, & Abderrahmane Wane, & Jean Joseph Cadilhon. (31/5/2016). Durabilité du système pastoral sénégalais dans un contexte d'innovation (LDB). Nairobi, Kenya: International Livestock Research Institute.

Type: [Presentation](#) | Publication Date: [2016-05-31](#)

#### [International Land Coalition's Rangeland Initiative, coordinated and technical support provided by ILRI and RECONCILE--Kenya](#)

Fiona Flintan, & Ken Otieno. (7/11/2016). International Land Coalition's Rangeland Initiative, coordinated and technical support provided by ILRI and RECONCILE--Kenya. Nairobi, Kenya: International Livestock Research Institute.

Type: [Poster](#) | Publication Date: [2016-11-07](#)

#### [Land Use Competition in Drylands \(LUCID\) model i](#)

Gunnar Dressler, & Lance W. Robinson. (31/12/2016). Land Use Competition in Drylands (LUCID) model i.

Type: [Software](#) | Publication Date: [2016-12-31](#)

#### [Market-oriented interventions and climate resilience in dryland agro-pastoralism](#)

Todd Crane, & Klerkson Lugusa, & Ida Rademaker, & Emmy Dortant. (30/11/2016). Market-oriented interventions and climate resilience in dryland agro-pastoralism. Nairobi, Kenya: International Livestock Research Institute.

Type: [Brief](#) | Publication Date: [2016-11-30](#)

#### [Transhumant practices and its effects on natural resource management in the Sudano-Sahelian Zone of Mali](#)

Clarisse Umutoni, & Augustine Ayantunde. (30/3/2016). Transhumant practices and its effects on natural resource management in the Sudano-Sahelian Zone of Mali. Nairobi, Kenya: International Livestock Research Institute.

Type: [Poster](#) | Publication Date: [2016-03-30](#)

Project: [Africa RISING](#)

#### [Local conventions governing natural resource management in Southern region of Mali](#)

Clarisse Umutoni, & Augustine Ayantunde. (30/3/2016). Local conventions governing natural resource management in Southern region of Mali. Nairobi, Kenya: International Livestock Research Institute.

Type: [Poster](#) | Publication Date: [2016-03-30](#)

Project: [Africa RISING](#)

#### [Principles of silage making in the subtropics](#)

Godfrey Manyawu, & Irenie Chakoma, & kasirayi gwezuya, & Lovemore Gwiriri, & Siboniso Moyo. (31/12/2016). Principles of silage making in the subtropics. Nairobi, Kenya: International Livestock Research Institute.

Type: [Brief](#) | Publication Date: [2016-12-31](#)

Project: [ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe](#)

#### [The agronomy and use of \*Lablab purpureus\* in smallholder farming systems of southern Africa](#)

Irenie Chakoma, & Godfrey Manyawu, & Lovemore Gwiriri, & Siboniso Moyo, & Sikhhalazo Dube. (31/12/2016). The agronomy and use of *Lablab purpureus* in smallholder farming systems of southern Africa. Nairobi, Kenya: International Livestock Research Institute.

Type: [Brief](#) | Publication Date: [2016-12-31](#)

Project: [ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe](#)

### Principles of haymaking using tropical grasses and legumes

Irenie Chakoma, & Godfrey Manyawu, & kasirayi gwezuvu, & Lovemore Gwiriri. (31/12/2016). Principles of haymaking using tropical grasses and legumes. Nairobi, Kenya: International Livestock Research Institute.

Type: **Brief** | Publication Date: **2016-12-31**

Project: **ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe**

### The agronomy and use of *Mucuna pruriens* in smallholder farming systems in southern Africa

Irenie Chakoma, & Godfrey Manyawu, & Lovemore Gwiriri, & Siboniso Moyo, & Sikhhalazo Dube. (31/12/2016). The agronomy and use of *Mucuna pruriens* in smallholder farming systems in southern Africa. Nairobi, Kenya: International Livestock Research Institute.

Type: **Brief** | Publication Date: **2016-12-31**

Project: **ZimCLIFS: Integrating crop and livestock production for improved food security and livelihoods in rural Zimbabwe**

### Addressing dry season feeding challenges in Mali by Mobile Choppers

Sapna Jarial, Hamidou Nantoumé, Zemadim Birhanu, Bougouna Sogoba, Augustine Ayantunde, Anthony Whitbread, Ramadjita TABO, Gundula Fischer, Irmgard Hoeschle-Zeledon. (6/5/2016). Addressing dry season feeding challenges in Mali by Mobile Choppers. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-05-06**

Project: **Africa RISING**

### Cost-Benefit analysis of crop trials under the Africa RISING project in Mali

Badolo Felix, Bekele Kotu, Birhanu Tadesse. (30/3/2016). Cost-Benefit analysis of crop trials under the Africa RISING project in Mali. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

### Solution space for sustainable intensification in Bougouni

Mary Ollenburger, Katrien Descheemaeker, Todd Crane, Ken Giller. (30/3/2016). Solution space for sustainable intensification in Bougouni. Wageningen, Netherlands: Wageningen University & Research Centre (WUR).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

### Watershed management, efforts beyond farm level in southern Mali

Birhanu Tadesse, Murali Krishna Gumma, Cedrick Guedessou, Kalifa B. Traore, Bougouna Sogoba, Ramadjita TABO. (30/3/2016). Watershed management, efforts beyond farm level in southern Mali. Hyderabad, India: The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Type: **Poster** | Publication Date: **2016-03-30**

Project: **Africa RISING**

### Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches

Lulseged Tamene, Kindu Mekonnen, Kifle Woldearegay, Tewodros Tesfaye, Girma Tesfahun Kassie, Quang Bao Le. (30/12/2016). Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches. Cali, Colombia: International Center for Tropical Agriculture (CIAT).

Type: **Poster** | Publication Date: **2016-12-30**

### [Integrated watershed management to create multifunctional landscapes: implementation and monitoring](#)

Lulseged Tamene, Kifle Woldearegay, James Ellison, Kindu Mekonnen, Girma Tesfahun Kassie, Tilahun Amede, Quang Bao Le. (28/12/2016). Integrated watershed management to create multifunctional landscapes: implementation and monitoring. Cali, Colombia: International Center for Tropical Agriculture (CIAT).

Type: [Presentation](#) | Publication Date: [2016-12-28](#)

### [Can improved food legume varieties increase technical efficiency in crop production?](#)

Girma Tesfahun Kassie, Aden Aw-Hassan, Seid Ahmed Kemal, Peter Thorne, Lulseged Tamene, Mulugeta Yitayih Birhanu. (13/11/2016). Can improved food legume varieties increase technical efficiency in crop production?

Type: [Presentation](#) | Publication Date: [2016-11-13](#)

Project: [Africa RISING \(Research in Sustainable Intensification for the Next Generation\) PVS Barley and Faba Bean](#)

### [Comparison of cowpea and groundnut haulm trading in urban and rural fodder markets in Niger](#)

Sapna Jarial, Michael Blummel, Idrissa Soumana, D. Ravi, Salissou Issa, Anthony Whitbread, Ramadjita TABO. (27/2/2016). Comparison of cowpea and groundnut haulm trading in urban and rural fodder markets in Niger. Hyderabad, India: International Crops Research Institute for the SemiArid Tropics.

Type: [Presentation](#) | Publication Date: [2016-02-27](#)

### [Evaluate strategies for improving household nutritional diversity in Mali](#)

Caroline Makamto Sobgui, & H. Diarra, & P. Coulibaly, & Jean-Baptiste Tignegre, & Abdou Tenkouano. (30/3/2016). Evaluate strategies for improving household nutritional diversity in Mali. Tainan City, Taiwan: World Vegetable Center.

Type: [Poster](#) | Publication Date: [2016-03-30](#)

Project: [Africa RISING](#)

### [Nutrition guidelines for community extension workers](#)

Caroline Makamto Sobgui, & Abdou Tenkouano. (15/11/2016). Nutrition guidelines for community extension workers. Tainan City, Taiwan: The World Vegetable Center.

Type: [Poster](#) | Publication Date: [2016-11-15](#)

Project: [Africa RISING](#)

### [Development of a sustainable intensification indicators framework: reports from the frontline in Malawi](#)

Sieglinde Snapp, & Philip Grabowski, & mark musumba, & Cheryl Palm, & Regis Chiwoko, & Bekunda Mateete. (19/6/2016). Development of a sustainable intensification indicators framework: reports from the frontline in Malawi. Lansing, United States: Michigan State University.

Type: [Poster](#) | Publication Date: [2016-06-19](#)

Project: [Africa RISING](#)

## IWMI – International Water Management Institute (7)

### ISI Journal Articles (1)

[A methodology to estimate equity of canal water and groundwater use at different spatial and temporal scales: a geo-informatics approach](#)

Usman Awan, Arif Anwar, Waqas Ahmad, Mohsin Hafeez. (24/2/2016). A methodology to estimate equity of canal water and groundwater use at different spatial and temporal scales: a geo-informatics approach. *Environmental Earth Sciences*, 409(75). **Impact factor [1.765]**

Publication Date: 2016-02-24

Project: [The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate](#)

### Non-ISI Journal Articles (1)

[Performance evaluation of ground water management instruments: The case of irrigation sector in Tunisia](#)

Aymen Frija, Boubaker Dhehibi, Ali Chebil, Karen Villholth. (30/3/2016). Performance evaluation of ground water management instruments: The case of irrigation sector in Tunisia. *Groundwater for Sustainable Development*, 1(1-2), pp. 23-32.

Publication Date: 2016-03-30

Project: [Agricultural Productivity with an Emphasis on Water Constraints in the Middle East and North Africa \(MENA\)](#)

### Manuscripts-Unpublished (1)

[Assessing the Financial and Economic Viability of Water User Associations and Canal Management Organizations in Ferghana Valley countries of Central Asia](#)

Oytur Anarbekov, Dennis Wichelns, Isomiddin Akramov. (30/11/2016). Assessing the Financial and Economic Viability of Water User Associations and Canal Management Organizations in Ferghana Valley countries of Central Asia.

Publication Date: 2016-11-30

### Proceedings (1)

[Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows](#)

Chandrashekhar Biradar, Geli Zhang, Xiangming Xiao, Jinwei Dong, R. Singh, Ashutosh Sarker, Murari Singh, Loyal Atassi, Khaled El-Shamaa, Kanwar Lal Sahrawat, Andrew Noble. (20/7/2016). Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows.

Publication Date: 2016-07-20

### Reports/Working Papers (1)

[Pradhan Mantri Krishi Sinchai Yojana: Enhancing Impact through Demand Driven Innovations](#)

Suhas P. Wani, K.H. Anantha, Kaushal K. Garg, Partha Joshi, Girish G. Sohani, Pk Mishra, Kuppannan Palanisami. (3/11/2016). Pradhan Mantri Krishi Sinchai Yojana: Enhancing Impact through Demand Driven Innovations. Hyderabad, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT).

Publication Date: 2016-11-03

## Other (2)

### [Understanding the gendered tenorial niches in the informal irrigation in the Kandeu, Malawi](#)

Everisto Mapedza, Emelder M. Tagutanazvo, C. Manyamba, Barbara Van Koppen. (3/1/2016). Understanding the gendered tenorial niches in the informal irrigation in the Kandeu, Malawi. Colombo, Sri Lanka: International Water Management Institute.

Type: [Presentation](#) | Publication Date: [2016-01-03](#)

### [Gender, Tenorial niches in the Kandeu informal irrigation scheme of Malawi and their implications for drought mitigation](#)

Mapedza, E., E.Tagutanazvo, C.Manyamba, B.Van Koppen (2016, August 19).Gender, Tenorial niches in the Kandeu informal irrigation scheme of Malawi and their implications for drought mitigation [Presentation].

Type: [Presentation](#) | Publication Date: [2016-08-19](#)

## PMU-DS – Program Management Unit of CRP on Dryland Systems (107)

### ISI Journal Articles (9)

[New dryland development paradigm grounded in empirical analysis of dryland systems science](#)  
Lindsay Stringer, Mark Reeds, Luuk Fleskens, Richard Thomas, Quang Bao Le, Tana Lala-Pritchard. (18/11/2016). New dryland development paradigm grounded in empirical analysis of dryland systems science. *Land Degradation & Development*, 1. **Impact factor [ 8.145]**  
Publication Date: 2016-11-18  
Project: CRP on Dryland Systems Program Management Unit

[Potential storages and drivers of soil organic carbon and total nitrogen across river basin landscape: The case of Mo river basin \(Togo\) in West Africa](#)  
Badabate Diwedigaa, Quang Bao Le, Sampson Agodzo, Kperkouma Wala. (13/11/2016). Potential storages and drivers of soil organic carbon and total nitrogen across river basin landscape: The case of Mo river basin (Togo) in West Africa. *Ecological Engineering*, 99, pp. 298-309. **Impact factor [2.740]**  
Publication Date: 2016-11-13

[Mapping paddy rice planting area in northeastern Asia with Landsat 8 images, phenology-based algorithm and Google Earth Engine](#)  
Jinwei Dong, Xiangming Xiao, Michael Angelo Menarguez, Chandrashekhar Biradar, Geli Zhang, Yuanwei Qin. (8/2/2016). Mapping paddy rice planting area in northeastern Asia with Landsat 8 images, phenology-based algorithm and Google Earth Engine. *Remote Sensing of Environment*, 2. **Impact factor [5.881]**  
Publication Date: 2016-02-08  
Project: India Collaborative Program: Restricted funding for breeding for resistance to abiotic stresses in pulses

[Modeling gross primary production of paddy rice cropland through analyses of data from CO2 eddy flux tower sites and MODIS images](#)  
Xiangming Xiao, Jinwei Dong, Chandrashekhar Biradar. (30/11/2016). Modeling gross primary production of paddy rice cropland through analyses of data from CO2 eddy flux tower sites and MODIS images. *Remote Sensing of Environment*, **Impact factor [5.881]**  
Publication Date: 2016-11-30  
Project: India Collaborative Program: Restricted funding for breeding for resistance to abiotic stresses in pulses

[Designing a new science-policy communication mechanism for the UN Convention to Combat Desertification](#)  
policy **Impact factor [2.972]**  
Publication Date: 2016-06-06  
Project: An Assessment of the Economics of Land Degradation for Improved Land Management in Central Asia

[CART and IDC – based classification of irrigated agricultural fields using multi-source satellite data](#)  
Virupakshagowda. C. Patil, Khalid A. Al-Gaadi, Rangaswamy Madugundu, EIKamil H. M. Tola, Ahmed M. Zeyadaa, Samy Marey, Chandrashekhar Biradar. (7/8/2016). CART and IDC – based classification of irrigated agricultural fields using multi-source satellite data. *Geocarto International*, pp. 1-19. **Impact factor [1.380]**  
Publication Date: 2016-08-07

### Quantification of Agricultural Water Productivity at Field Scale and Its Implication in On-Farm Water Management

Rangaswamy Madugundu, Khalid A. Al-Gaadi, ElKamil H. M. Tola, Virupakshagowda. C. Patil, Chandrashekhar Biradar. (6/10/2016). Quantification of Agricultural Water Productivity at Field Scale and Its Implication in On-Farm Water Management. Journal of the Indian Society of Remote Sensing, pp. 1-14. **Impact factor [0.676]**

Publication Date: 2016-10-06

### Mapping forests in monsoon Asia with ALOS PALSAR 50-m mosaic images and MODIS imagery in 2010

Yuanwei Qin, Xiangming Xiao, Jinwei Dong, Geli Zhang, Partha Sarathi Roy, Pawan Kumar Joshi, Hamad Gilani, Manchiraju Sri Ramachandra Murthy, Cui Jin, Jie Wang, Yao Zhang, Bangqian Chen, Michael Angelo Menarguez, Chandrashekhar Biradar, Rajen Bajgain, Xiangping Li, Shengqi Dai, Ying Hou, Fengfei Xin, Berrien Moore III. (11/2/2016). Mapping forests in monsoon Asia with ALOS PALSAR 50-m mosaic images and MODIS imagery in 2010. Scientific Reports, /, pp. 1-10. **Impact factor [5.228]**

Publication Date: 2016-02-11

### Timely monitoring of Asian Migratory locust habitats in the Amudarya delta, Uzbekistan, using time series of satellite remote sensing vegetation index

Fabian Low, Chandrashekhar Biradar. (9/9/2016). Timely monitoring of Asian Migratory locust habitats in the Amudarya delta, Uzbekistan, using time series of satellite remote sensing vegetation index. Journal of Environmental Management, 183, pp. 562-575. **Impact factor [3.131]**

Publication Date: 2016-09-09

Project: The CGIAR collaborative research and capacity building project for the development of sustainable and resilient agricultural production systems in Central Asia under the conditions of changing climate

## Non-ISI Journal Articles (3)

### Putting Economic and Environmental Sustainability Hand in Hand to Protect Our Lands

Richard Thomas, & Mark Schauer. (15/9/2016). Putting Economic and Environmental Sustainability Hand in Hand to Protect Our Lands. The Solutions Journal, 7, pp. 17-20.

Publication Date: 2016-09-15

Project: An Assessment of the Economics of Land Degradation for Improved Land Management in Central Asia

### Spectral Reflectance Models for Characterizing Winter Wheat Genotypes

Sarah Ajayi, Srirama Krishna Reddy, Prasanna Gowda, Qingwu Xue, Jackie Rudd, Gautam Pradhan, Shuyu Liu, Bob Stewart, Chandrashekhar Biradar, Kirk E. Jessup. (3/1/2016). Spectral Reflectance Models for Characterizing Winter Wheat Genotypes. JOURNAL OF CROP IMPROVEMENT, 30(2), pp. 176-195.

Publication Date: 2016-01-03

### Priority regions for research on dryland cereals and legumes.

Glenn Graham Hyman, Elizabeth Barona, Chandrashekhar Biradar, Edward Guevara, John Dixon, Steve Beebe, Silvia Elena Castaño, Tunrayo Alabi, Murali Krishna Gumma, Shoba Sivasankar, Ovidio Rivera, Herlin Espinosa, Jorge Cardona. (13/5/2016). Priority regions for research on dryland cereals and legumes. F1000Research, n/a, pp. 1-20.

Publication Date: 2016-05-13

## Manuscripts-Unpublished (1)

[Agricultural livelihood types and type-specific drivers of production diversification: an evidence from Karauzyak, Karakalpakstan, Uzbekistan](#)

Akmal Akramkhanov, Adkham Akbarov, Quang Bao Le. (30/12/2016). Agricultural livelihood types and type-specific drivers of production diversification: an evidence from Karauzyak, Karakalpakstan, Uzbekistan.

Publication Date: 2016-12-30

## Book Chapters (4)

[Biomass Productivity-Based Mapping of Global Land Degradation Hotspots](#)

Quang Bao Le, & Alisher Mirzabaev, & Ephraim Nkonya. (17/8/2016). Biomass Productivity-Based Mapping of Global Land Degradation Hotspots, in "Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development". Bonn, Germany: Springer International Publishing.

Publication Date: 2016-08-17

[Concepts and Methods of Global Assessment of the Economics of Land Degradation and Improvement](#)

Ephraim Nkonya, Joachim von Braun, Alisher Mirzabaev, Quang Bao Le, Ho-Young Kwon, Oliver Kirui. (30/12/2016). Concepts and Methods of Global Assessment of the Economics of Land Degradation and Improvement, in "Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development". Berlin, Germany: Springer.

Publication Date: 2016-12-30

[Concepts and Methods of Global Assessment of the Economics of Land Degradation and Improvement](#)

Ephraim Nkonya, Joachim von Braun, Alisher Mirzabaev, Quang Bao Le, Ho-Young Kwon, Oliver Kirui. (30/12/2016). Concepts and Methods of Global Assessment of the Economics of Land Degradation and Improvement, in "Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development". Berlin, Germany: Springer.

Publication Date: 2016-12-30

[Economics of Land Degradation in Central Asia](#)

Alisher Mirzabaev, Jann Goedecke, Olena Dubovyk, Utkur Djanibekov, Quang Bao Le, Aden Aw-Hassan. (30/12/2016). Economics of Land Degradation in Central Asia, in "Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development". Berlin, Germany: Springer.

Publication Date: 2016-12-30

## Proceedings (6)

[Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows](#)

Chandrashekhar Biradar, Geli Zhang, Xiangming Xiao, Jinwei Dong, R. Singh, Ashutosh Sarker, Murari Singh, Layal Atassi, Khaled El-Shamaa, Kanwar Lal Sahrawat, Andrew Noble. (20/7/2016). Spatial big-data analytics for agricultural intensification and crop diversification in rice fallows..

Publication Date: 2016-07-20

[Responsiveness of chickpea to climate change](#)

Aladdin Hamwih, Murari Singh, Chandrashekhar Biradar, Muhammad Imtiaz, Rajinder Malhotra, Suhaila Arslan. (20/4/2016). Responsiveness of chickpea to climate change. Marrakesh, Morocco.

Publication Date: 2016-04-20



#### Exacerbated degradation and desertification of grassland in Central Asia

Geli Zhang, Xiangming Xiao, Chandrashekhar Biradar, Jinwei Dong, Yuting Zhou, Yuanwei Qin, Yao Zhang, Fang Liu, Mingjun Ding, Richard Thomas. (16/12/2016). Exacerbated degradation and desertification of grassland in Central Asia.

Publication Date: [2016-12-16](#)

#### Socio-ecological Context Typology to Support Targeting and Upscaling of Sustainable Land Management Practices in Diverse Global Dryland

Quang Bao Le, Chandrashekhar Biradar, Richard Thomas, Claudio Zucca, Enrico Bonaiuti. (11/7/2016). Socio-ecological Context Typology to Support Targeting and Upscaling of Sustainable Land Management Practices in Diverse Global Dryland. Toulouse, France: Sabine Sauvage (Curator), José Miguel Sanchez Perez, Andrea Emilio Rizzoli.

Publication Date: [2016-07-11](#)

#### Systems Approach to Link Big Socio-ecological Geo-data to Food Systems Sustainability

Quang Bao Le, Chandrashekhar Biradar, Enrico Bonaiuti, Richard Thomas. (13/7/2016). Systems Approach to Link Big Socio-ecological Geo-data to Food Systems Sustainability. Toulouse, France: Sabine Sauvage (Curator), José Miguel Sanchez Perez, Andrea Emilio Rizzoli.

Publication Date: [2016-07-13](#)

#### Restoring the Jordan's Badia Agro-Ecosystems - tracking developmental interventions and impacts using Remote Sensing

Muna Saba, Mohammed Mudabber, Mira Haddad, Stefan Strohmeier, Bezalet Dessalegn, Mounir Louhaichi, Chandrashekhar Biradar. (10/11/2016). Restoring the Jordan's Badia Agro-Ecosystems - tracking developmental interventions and impacts using Remote Sensing.

Publication Date: [2016-11-10](#)

### Reports/Working Papers (14)

#### Farming household types and their characterization in complex crop-livestock smallholder agricultural systems for contextual analysis and extension intervention: case of Riviridzi Catchment in Ntcheu

Powell Mponela, & Lulseged Tamene, & Gift Ndengu, & Quang Bao Le. (30/1/2016). Farming household types and their characterization in complex crop-livestock smallholder agricultural systems for contextual analysis and extension intervention: case of Riviridzi Catchment in Ntcheu. Amman, Jordan: CRP on Dryland Systems.

Publication Date: [2016-01-30](#)

#### Economics of Land Degradation Initiative: Report for the Private Sector

Akima Cornell, Jonathon Weier, Naomi Stewart, James Spurgeon, Hannes Etter, Richard Thomas, Nicola Favretto, Andrew Chilombo, Niek Van Duivenbooden, Christy Van Beek, Tomek De Ponti. (17/7/2016). Economics of Land Degradation Initiative: Report for the Private Sector. Bonn, Germany: Economics of Land Degradation Initiative.

Publication Date: [2016-07-17](#)

#### Broadening land management options for improved economic sustainability across Central Asia: A synthesis of national studies

Emmanuelle Quillérou, & Richard Thomas, & Oleg Guchgeldiyev, & Stefanie Ettling, & Hannes Etter, & Naomi Stewart. (20/11/2016). Broadening land management options for improved economic sustainability across Central Asia: A synthesis of national studies.

Publication Date: [2016-11-20](#)

Project: [An Assessment of the Economics of Land Degradation for Improved Land Management in Central Asia](#)

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### [Extracted dataset for livelihood analysis in Karauzyak district based on baseline survey conducted by Innovation Platform](#)

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### [Assessment of wheat yield gap in Central Asia: Case studies from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan](#)

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### Agricultural systems dynamics framework for the Ntcheu-Changara Transect

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### Monitoring, Evaluation and Learning Platform: System Design & Architecture

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#### [Scientist Spotlight: Jutta Werner on Drylands, Publications, and International Life](#)

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#### [Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches](#)

Lulseged Tamene, Kindu Mekonnen, Kifle Woldearegay, Tewodros Tesfaye, Girma Tesfahun Kassie, Quang Bao Le. (30/12/2016). Enhancing resources management planning and decision making through simple and easy to use tools and participatory approaches. Cali, Colombia: International Center for Tropical Agriculture (CIAT).

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### [Integrated watershed management to create multifunctional landscapes: implementation and monitoring](#)

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Type: [Brief](#) | Publication Date: [2016-06-30](#)

### [Comparing different remote sensing based methods for mapping post - Soviet abandon ed cropland in Central Asia](#)

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